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December 20, 2002

VIA AIRBORNE EXPRESS

Mr. Seth Ausubel
Remedial Project Manager
United States Environmental Protection Agency
Region II
Emergency and Remedial Response Division
290 Broadway, 19th Floor
New York, New York 10007-1866

Re: Response to United States Environmental Protection Agency ("EPA") §104(e) Inquiry, Berry's Creek Study Area
Bergen County, New Jersey
Dassault Falcon Jet Corp. ("DFJ" or the "Company")
Our File No.: 10147-001

Dear Mr. Ausubel:

We represent DFJ in relation to the captioned matter. In this regard, enclosed please find a copy of DFJ's response to EPA's 104(e) Questionnaire concerning the Berry's Creek Study Area. As discussed in greater detail below, we respectfully submit that DFJ cannot be considered a potentially responsible party ("PRP") with respect to contamination to the Study Area. Prior to transferring its leasehold interest, DFJ performed sampling, which confirmed that there was no contamination attributable to the Company's operations.

DFJ's site is located at Teterboro Airport which is owned and operated by the Port Authority of New York and New Jersey ("PA"). The Company had the right to maintain its operations at certain locations at the airport pursuant to several use and occupancy/lease agreements. Effective September 1992, DFJ transferred its "Jet Center" operations (which included all aircraft maintenance) to Jet Aviation Teterboro, Inc. ("Jet Aviation").

DFJ continues to conduct ongoing marketing demonstration flights at Hangar 119 pursuant to a sub-use agreement with Jet Aviation.

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At the time it transferred the Jet Center operations to Jet Aviation, DFJ retained an environmental consultant, Dan Raviv Associates, Inc. ("DRAI"), to perform a Phase I/Phase II investigation of DFJ's operations. DRAI's sampling of the potential areas of environmental concern at the property confirmed that there was no contamination attributable to DFJ's operations at the DFJ site. Copies of the DRAI Phase I/Phase II Reports are included among the documents produced by DFJ as Exhibit B.

We trust that DFJ's submission in response to EPA's inquiry confirms that DFJ is not responsible for any pollution to the Berry's Creek Study Area.

Very truly yours,

WATERS, McPHERSON, McNEILL, P.C.

By: _____
MARC S. FAECHER

MSF:kf
Enclosures
cc: Clay Monroe, Asst. Regional Counsel (via Facsimile, w/o exhibit encl.)
Peter Rothwell, Esq. (via Airborne Express w/encl.)

CERTIFICATION OF ANSWERS TO REQUEST FOR INFORMATION

State of NEW JERSEY

County of BERGEN :

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document (response to EPA Request for Information) and all documents submitted herewith, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete, and that all documents submitted herewith are complete and authentic unless otherwise indicated. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. I am also aware that my company is under a continuing obligation to supplement its response to EPA's Request for Information if any additional information relevant to the matters addressed in EPA's Request for Information or the company's response thereto should become known or available to the company.

DASSAULT FALCON JET CORP.

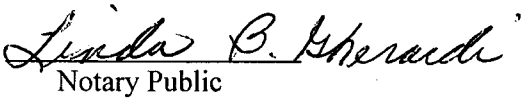
Peter S. Rothwell
NAME (print or type)

Corporate Secretary
TITLE (print or type)

SIGNATURE

Sworn to before me this

19th day of December, 2002.


Notary Public

LINDA B. GHERARDI
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires June 23, 2004

DASSAULT FALCON JET CORP.
EXHIBITS TO RESPONSE TO USEPA REQUEST FOR INFORMATION CERCLA §104(e)
RE: BERRY'S CREEK STUDY AREA, BERGEN COUNTY, N.J.

EXHIBIT A	-	**MAP DEPICTING HANGARS AND BUILDING**
EXHIBIT B	-	**D.R.A.I. PHASE I/PHASE II REPORT**
EXHIBIT C	-	**ANNUAL HAZARDOUS WASTE REPORTS**
EXHIBIT D	-	**HAZARDOUS WASTE MANIFESTS**
EXHIBIT E	-	**B.C.U.A. DISCHARGE PERMIT NO. 91-73**
EXHIBIT F	-	**MATERIAL SAFETY DATA SHEETS**
EXHIBIT G	-	**COMMUNITY RIGHT-TO-KNOW DOCUMENTS**

EPA 104(e) REQUEST FOR INFOMATION

IN THE MATTER OF THE BERRY'S CREEK STUDY AREA

DASSAULT FALCON JET CORP. RESPONSE

ANSWERS AND OBJECTIONS OF DASSAULT FALCON JET CORP. TO THE EPA's CERCLA 104(e) INFORMATION REQUEST

The Answers and Objections set forth below are based upon information presently within the possession of Dassault Falcon Jet Corp. ("DFJ" or "the Company"). DFJ expressly reserves the right to amend or supplement its answers and objections to the extent additional information is discovered.

In responding to EPA's Information Request, DFJ does not waive any objections it may have regarding the use of such responses, including, but not limited to, all privilege, relevancy, materiality and admissibility objections. DFJ objects to this Information Request to the extent that it seeks disclosure of information or identification of documents that may be subject to the attorney/client or the attorney work product privileges (including, but not limited to, information or documents prepared in anticipation of litigation, by its attorneys or other representatives and information or documents which would tend to disclose the mental impressions, conclusions, opinions or legal theories of DFJ's attorneys or other representatives concerning any matters) or any other applicable privileges or protections.

DFJ objects to EPA's definitional section to the extent that individual definitions (including, but not limited to, the definition of "the Company" and "your Company") suggest that predecessor or related entities may be liable for contamination to the Berry's Creek Study Area as "successors" or "predecessors-in-interest" under applicable law.

DFJ incorporates by reference all of the aforementioned objections into each of its answers below. Subject to the foregoing objections, and without waiver thereof, DFJ offers the following responses to EPA's 104(e) Request for Information:

Question 1a. *State the correct legal name and mailing address of your Company.*

Answer: Dassault Falcon Jet Corp. (Legal Name)
Mailing Address:
Teterboro Airport
Box 2000
South Hackensack, NJ 07606

Overnight/Courier Delivery:
200 Riser Road
Little Ferry, NJ 07643

Question 1b. *Identify the legal status of your Company (corporation, partnership, sole proprietorship, specify if other) and the state in which your Company was organized or formed.*

Answer: Corporation; Delaware

Question 1c. *State the name(s) and address(es) of the President, Chairman of the Board, and the Chief Executive Officer of your Company.*

Answer:

President:	John Rosanvallon
Address:	Dassault Falcon Jet Corp. Teterboro Airport, 200 Riser Road Little Ferry, NJ 07643
Chairman:	Charles Edelstenne
Address:	Dassault Aviation 78, quai Marcel Dassault Cedex 300 92552 Saint-Cloud Cedex FRANCE
Chief Executive Officer:	Jean-Francois Georges
Address:	Dassault Aviation 78, quai Marcel Dassault Cedex 300 92552 Saint-Cloud Cedex FRANCE

Question 1d. *If your Company is a subsidiary or affiliate of another corporation, or has subsidiaries, identify each such entity and its relationship to your Company, and state the name(s) and address(es) of each such entity's President, Chairman of the Board, and Chief Executive Officer.*

Answer: DFJ Corp. is an 87% owned subsidiary of Dassault Aviation, a French corporation with an office in Saint-Cloud, France.

Dassault Aviation

Address:	78, quai Marcel Dassault Cedex 300 92552 Saint-Cloud Cedex FRANCE
Chairman:	Charles Edelstenne
Address:	Same as above
Vice Chairman:	Bruno Revellin-Falcoz
Address:	Same as above
Chief Executive Officer:	Charles Edelstenne
Address:	Same as above

Dassault International (USA) Inc., a Delaware corporation, is a 13% owner of DFJ. Dassault International (USA) Inc. is, in turn, a wholly-owned subsidiary of Dassault Aviation.

Dassault International (USA) Inc.

Address:	205 Robin Road Suite 300 Paramus, NJ 07652
President:	Charles Edelstenne
Address:	c/o Dassault Aviation 78, quai Marcel Dassault Cedex 300 92552 Saint-Cloud Cedex FRANCE
Chairman:	Charles Edelstenne
Address:	Same as above
Chief Executive Officer:	Charles Edelstenne
Address:	Same as above

DFJ has four (4) subsidiaries/affiliates as follows:

(1) Aero Precision Repair & Overhaul Co. Inc. (A-PRO)

Address:	580 South Military Trail Deerfield Beach, FL 33442-3011
President:	Alex V. Tearle
Address:	Same as above
Chairman:	J. Morgan Young
Address:	c/o Dassault Falcon Jet Corp. Teterboro Airport, 200 Riser Road Little Ferry, NJ 07643
Chief Executive Officer:	N/A

DFJ is a 50% owner of A-PRO.

(2) Midway Aircraft Instrument Corporation

Address:	Teterboro Airport, 100 Riser Road Little Ferry, NJ 07643
President:	Terrance J. Bacola Same as above

Chairman:	Laurent Dassault
Address:	c/o Dassault Aviation 9, Rond-Point des Champs Elysees-Marcel Dassault 75008 Paris FRANCE
Chief Executive Officer:	J. Morgan Young c/o Dassault Falcon Jet Corp. Teterboro Airport, 200 Riser Road Little Ferry, NJ 07643

DFJ is a 25% owner of Midway.

(3) Dassault Falcon Jet – Wilmington Corp.

Address:	New Castle Airport 191 N. DuPont Highway New Castle, DE 19720-3121
President:	J. Morgan Young c/o Dassault Falcon Jet Corp. Teterboro Airport, 200 Riser Road Little Ferry, NJ 07643
Chairman:	John Rosanvallon c/o Dassault Falcon Jet Corp. Teterboro Airport, 200 Riser Road Little Ferry, NJ 07643
Chief Executive Officer	N/A

(4) Dassault Falcon Jet do Brazil Limitada

Address:	c/o Dassault Falcon Jet Corp. Teterboro Airport, 200 Riser Road Little Ferry, NJ 07643
President:	J. Morgan Young c/o Dassault Falcon Jet Corp. Teterboro Airport, 200 Riser Road Little Ferry, NJ 07643
Chairman:	Laurent Dassault c/o Dassault Aviation

9, Rond-Point des Champs Elysees-Marcel Dassault
75008 Paris FRANCE

Chief Executive Officer: N/A

Question 1e. *Identify the state and date of incorporation and the agent for service of process in the state of incorporation and in the State of New Jersey for your Company and for each entity identified in your response to question 1.d., above.*

Answer:

Dassault Falcon Jet Corp.
State of Incorporation: Delaware
Date of Incorporation: July 9, 1969
Agent for service of process in Delaware: Corporation Service Company
Agent for service of process in New Jersey: Matthew A. Boyle

Dassault International (USA) Inc.
State of Incorporation: Delaware
Date of Incorporation: July 9, 1969
Agent for service of process in Delaware: Corporation Service Company
Agent for service of process in New Jersey: Corporation Service Company

Aero Precision Repair and Overhaul Co., Inc. (A-PRO)
State of Incorporation: Florida
Date of Incorporation: October 27, 1989
Agent for service of process in Florida: William P. Amantia

Midway Aircraft Instrument Corporation
State of Incorporation: New Jersey
Date of Incorporation: May 10, 1954
Agent for service of process in New Jersey: Peter S. Rothwell

Dassault Falcon Jet – Wilmington Corp.
State of Incorporation: Delaware
Date of Incorporation: September 21, 2000
Agent for service of process in Delaware: Corporation Service Company
Agent for service of process in New Jersey: Corporation Service Company

Question 1f. *If your Company is a successor to, or has been succeeded by another entity, identify such other entity and provide the same information requested in question 1.e., above.*

DFJ objects to this request to the extent the term "successor" is subject to varying interpretations and could constitute an admission of liability under state, federal and the common law. None of the entities identified in these Responses to EPA's

Request for Information could be considered "successors" for the purpose of imposing individual owner/operator or successor liability under the New Jersey Spill Compensation and Control Act, N.J.S.A. 58:10-23.11 et seq. ("Spill Act"), CERCLA, 42 USC § 9601 et seq. ("CERCLA") or the common law. Similarly, none of the aforementioned parent companies or subsidiary/affiliates could be considered owners/operators under the Spill Act or CERCLA. Subject to the foregoing objection and without waiver thereof, DFJ offers the following response:

Answer: Not Applicable.

Question 2. *Provide a description of the Site, i.e., the property or properties in Teterboro, Bergen County, New Jersey, which your Company owned or owns, or upon which it operated or leased, or currently operates or leases. Include Block and Lot numbers, names of streets or physical features bounding the property(ies), and acreage.*

Answer: Until 1992, the Site, located at the south end of Teterboro Airport, Teterboro, Bergen County, New Jersey, consisted of the buildings and property surrounding Hangar 112/113, Hangar 114, Hangar 118 and Hangar 119. Block and Lot Numbers are as follows:

	Block & Lot Numbers/Streets	
Hangar 112/113	Lot 1.02, Block 76	Charles Lindbergh Drive
Hangar 114	Lot 1.02, Block 76	Charles Lindbergh Drive
Hangar 118	Lot 1.02, Block 76	Billy Diehl Road
Hangar 119	Lot 1.02, Block 76	Billy Diehl Road

Attached as Exhibit A is a copy of the map depicting the hangars and building.

Question 3. *Provide a narrative description of the nature of the Company's business. If the nature of the Company's business changed over time, please explain how it changed, (including any name changes) and approximately when the changes occurred.*

Answer: Commencing in December 1972, DFJ's business at Teterboro Airport included the sale, service, and after-sale support of Falcon model business jet aircraft; the storage of spare parts and equipment; and the repair of certain avionics equipment and aircraft hydraulics components. DFJ also fueled planes at the airport via the use of overland trucks that would deliver the fuel directly to each aircraft. The Company performed no manufacturing operations at the Site and had no underground storage of fuel or other chemical raw materials at the Site.

During the 4th calendar quarter of 1989, the work related to the repair of aircraft hydraulics components was transferred to A-PRO, Deerfield Beach, Florida. During September, 1992, the Company sold its interest in the buildings and

property surrounding Hangar 112/113, Hangar 114, Hangar 118 and Hangar 119 (hereinafter the "Jet Center") thereby transferring all aviation maintenance operations to Jet Aviation Teterboro Inc. ("Jet Aviation"). Since 1992, the Company has continued to maintain its Marketing Demonstration Aircraft fleet and flight department at Hangar 119, Teterboro Airport pursuant to a Sub-Use Agreement with Jet Aviation.

Question 4. *Please specify the time period during which the Company leased, owned, and/or operated the Site. If the Company leased, owned or operated at portions of the Site, specify the time periods of such involvement, and appropriate block and lot numbers. If your Company ever leased the Site, provide copies of leases, names, current addresses and telephone numbers of each owner of the Site during the period the Company leased the Site.*

Answer: Teterboro Airport is owned and operated by The Port Authority of New York and New Jersey ("PA"). From 1972 through 1982, the airport was leased to Pan Am World Airways, and then to its successor organization, Johnson Controls, until December 1, 2000 when the PA assumed full responsibility for the operation of the airport. Together with American Port Services, Inc. ("AMPORTS"), the PA manages the daily operations and maintenance of the airport. (This response is taken directly from the PA website; See www.panynj.gov/aviation/tetframe.HTM.)

The Company had the right to maintain its operations at certain locations at the airport pursuant to several use and occupancy/lease agreements. These leases are listed below as follows.

	Lease	Block & Lot #	Dates		
TA-090	Hangar 112/113	Lot 1.02, Block 76	09/01/74	to	09/03/92
TA-006	Hangar 114	Lot 1.02, Block 76	10/23/73	to	09/03/92
	Hangar 118	Lot 1.02, Block 76	11/30/72	to	09/30/82
TA-049	Hangar 119	Lot 1.02, Block 76	11/30/72	to	09/03/92

The contact information for Pan Am, Johnson Controls and Jet Aviation is as follows:

(1) Pan Am World Services, Inc. (No longer in existence).
(2) Johnson Controls World Services, 777 Terrace Ave., Hasbrouck Heights, NJ, (201) 462-0700
(3) Jet Aviation Teterboro, Inc., 111 Charles Lindbergh Drive, Teterboro, NJ, (201) 288-8400

Question 5. *Describe the Site at the time the Company took possession of it. If there was any business at the Site, explain the nature of that business.*

Answer: At the time the Company began operating at the site, the property consisted of virtually 100% impervious cover. Hangars 112/113 were built shortly before DFJ leased the site. Hangars 114, 118, and 119 were also constructed before the Company began operating at the Site. Dassault International USA Inc. leased these Hangar's for a short period of time before the inception of Company's leases. Dassault International's business operations were similar to DFJ's.

Question 6. *Describe in detail the nature of the relationship between the Company and the following entity: Dassault Falcon Jet Corp. Indicate the time and manner in which the relationship was established. Specifically address the relationship as pertaining to any current or past operations or ownership at the Site.*

Answer: Effective January 1, 1995, Falcon Jet Corporation changed its name to Dassault Falcon Jet Corp. DFJ assumed all of the rights and obligations of Falcon Jet Corporation on January 1, 1995, including the then-existing Hangar 119 Lease with Jet Aviation Teterboro, Inc.

Question 7. *Describe in detail the nature of the activities conducted by the Company at the Site from the time the Company began operations at the Site until the present time, including:*

a. the services performed at the Site;
b. all products which the Company manufactured, supplied, or sold which resulted from activities at the Site;
c. research and development activities; and
d. the time period during which those activities occurred.

Answer: a. In connection with its proposed transfer of the Jet Center Facility to Jet Aviation in 1992, DFJ retained Dan Raviv Associates, Inc. ("DRAI") to conduct a Phase I environmental audit of the entire Site followed by Phase II sampling work to confirm that the Company's operations did not result in any discharges of hazardous substances to the environment. A copy of the DRAI Phase I/Phase II report is attached as Exhibit B.

The Phase I portion of the report identified nine potential areas of environmental concern ("PAOCs"). These PAOCs (which are identified in greater detail below) included some minor interior oil staining on the concrete floors in Hangars 113 and 114, an exterior drum storage area, five USTs and associated oil/water separators, staining adjacent to an emergency generator and suspected asbestos containing materials ("ACM") in the boiler room at Hangar 119. A description of all PAOCs and the DRAI sampling results follows below:

Hangar 112 – Hangar 112 consisted of approximately 2,000 square feet of office space. DFJ utilized Hangar 112 to schedule flight arrangements. No industrial operations or hazardous substance storage was performed at Hangar 112.

Hangar 113 – Hangar 113 consisted of 45,425 square feet and adjoined Hangar 114 to the north. This hangar was used for office space, storage and a hangar use to service, wash and store aircraft. The Company generated waste oil from small fuel samples that were collected from jets to insure that water condensate did not form in jet fuel tanks. The samples were placed in the drum for disposal as hazardous waste.

A concrete-lined trench drain was located in the center of the hangar floor. This drain was connected to an oil/water separator and associated 550 gallon UST. This tank had a facility designation of E-44 and was identified as PAOC 3 by DRAI. One fifty-five gallon drum of waste oil was located in the north corner of the building. An oil stain on the concrete floor adjacent to the drum was identified by DRAI as PAOC 1A. Steel cylinders of nitrogen, argon and oxygen gas were also stored in the hangar. A small, former engine repair shop, which was subsequently utilized as a tool room, was located in the southern portion of the building. DFJ stored de minimis quantities of solvents, alcohol, varsol and methyl ethyl ketone ("MEK") in this room.

DFJ maintained a paved, fenced in exterior drum storage area near the northwest corner of Hangar 113. DFJ stored approximately 15 fifty-five gallon drums of chemicals and waste oils including mineral spirits, MEK, alcohol, varsol, de-icing fluid and cleaning solvents on wooden pallets. This area was designated PAOC 2 by DRAI.

South of the compressor room and adjacent to the west side of Hangar 113 was a former sheet metal and machine room. As of 1992, this area was used for storage. East of the sheet metal room was a former cleaning room and small paint shop. DFJ ceased operations in these areas in or about December 1988 and then utilized the rooms for storage. Each of the rooms contained small floor drains which were also connected to a 550 gallon holding tank. DFJ cleaned out the UST on June 2, 1988. The tank had a facility designation of E-45 and was identified as PAOC 4 by DRAI.

Hangar 114 – Hangar 114 consisted of a 24,776 square foot hangar, storage space and offices. Aircraft were serviced, washed and stored in the hangar area.

West of and adjacent to a small former engine repair shop was a former parts and cleaning room which was also used as a storage area. A small

floor drain was connected to an oil/water separator and 280 gallon UST. The tank had a facility designation of E-47 and was identified as PAOC 5 by DRAI.

A trench drain (similar to the one in hangar 113) was located in the center of the hangar floor. The drain was also connected to an oil water separator and 280 gallon UST. The tank had a facility designation at E-46 and was identified as PAOC 6 by DRAI.

An oil stain on the concrete floor was identified as AOC 1B.

An emergency gas powered generator was located on the north side of Hangar 114 on a concrete pad. Soils adjacent to the pad were designated PAOC 7 by DRAI.

Hangar 119 – Hangar 119 was 20,000 square feet and was used for airplane storage and office space. A concrete-lined trench drain was also located in the center of the hangar floor. This drain was connected to an oil/water separator and 250 gallon UST. The UST had a facility designation of E-49 and was identified as PAOC 9 by DRAI.

Pursuant to the Phase I report, DRAI concluded that sampling of PAOCs 2 through 7 and PAOC 9 was required to confirm that there were no discharges of hazardous substances to the environment at each PAOC. Based upon this recommendation, the Company authorized DRAI to conduct a thorough sampling program to confirm that there had in fact been no discharges/releases of hazardous substances caused by DFJ's operations.

Pursuant to the Phase II sampling that was performed in each of the PAOCs, DRAI confirmed that no contamination was present above the NJDEP's residential cleanup criteria. Therefore, DRAI concluded that no further action for the soils or ground water was required at any of the PAOCs at the Site. With the exception of the Company's ongoing marketing demonstration operations at Hangar 119, effective September 1992, DFJ transferred the Site to Jet Aviation. The sampling results and DRAI's No Further Action recommendations are attached as Exhibit B. (See pages 1 through 4 of DRAI's Level II Report).

b. Products which the Company manufactured, supplied or sold which resulted from activities at Teterboro Airport, Teterboro, NJ include the following:

See response to Question three (3).

c. The Company conducted no research and development activities at Teterboro Airport.

d. Not Applicable.

Question 8. *Did your Company cease operations at the Site. If so, when? Describe the circumstances that precipitated your company's decision to cease operations at the Site.*

Answer: See responses to Question numbers three (3) and seven (7). The Company did not completely cease operations at the Site. Following the transfer of its Jet Center operations to Jet Aviation on September 3, 1992, the Company continued to maintain its Falcon demonstration aircraft at Hangar 119, along with its Flight Department.

Question 9. *Did your Company generate hazardous wastes at the Site, or does your company currently do so? Please describe your Company's treatment, storage and/or disposal practices for any hazardous wastes generated at the Site.*

Answer: From December 1985 to September 1992, the Company generated hazardous waste, which was removed periodically by Safety Kleen. The Company now generates waste fuel, oil and hydraulic fluid, and related hazardous waste which is removed by the Company's Landlord, Jet Aviation Teterboro, Inc., and is taken to S&W Waste Recycling. The Company has followed NJDEP and EPA guidelines with regard to storage and disposal practices for hazardous wastes generated at the Site. Copies of the Company's Hazardous Waste Reports and Hazardous Waste Manifests are attached as, respectively, Exhibits C and D.

Question 10. *Provide a list of all local, state and federal environmental permits ever granted for the Site or any part thereof (e.g., RCRA permits, NPDES permits, etc.).*

Answer: DFJ had a Bergen County Utilities Authority ("BCUA") Discharge Permit No. 91-73). A copy of that permit is attached hereto as Exhibit E. The Company maintained an EPA waste generator number NJ0981491509. Johnson Control also had an NJDEP air certificate to operate control apparatus at Hangar 114 Log No. 913598A.

Question 11. *List all hazardous substances (as defined in the "Instructions"), which were, or are, used, stored, or handled at the Site.*

Answer: Copies of the Company's Material Safety Data Sheets ("MSDS") and the Community Right to Know documents are attached as, respectively, Exhibits F and G.

Question 12. *State when and where each substance identified in your response to Question 11 was, or is, used, stored, or handled at the Site and the volume of each substance.*

Answer: See response to Question number eight (8).

Question 13. *Describe in detail how and where the hazardous wastes, industrial wastes, and hazardous substances generated, handled, treated, and stored at the Site were, or are, disposed of. If any hazardous wastes, hazardous substances, or industrial wastes were, or are, taken off-site for disposal or treatment, state the names and addresses of the transporters and the disposal facility used.*

Answer: See response to Question number nine (9).

Question 14. *Who determined, or determines, where to treat, store and/or dispose of the hazardous substances and/or hazardous wastes handled at the Site? Provide the names and current or last known addresses of any entities or individuals which made such determination.*

Answer: DFJ objects to this request to the extent that the phrase "who determined where waste/hazardous substances were treated, stored or disposed" could be construed as an admission as to owner/operator or successor liability under state, federal and the common law. There were no individuals involved with the Property who could be considered individually liable as "operators" or "successors" under the Spill Act, CERCLA or the common law. Subject to the foregoing objection and without waiver thereof, the Company offers the following response: Safety Kleen, DFJ's independent contractor, determined where to treat, store, and/or dispose of the waste.

Question 15. *Describe in detail the remedial activities conducted at the Site under CERCLA, the Resource Conservation and Recovery Act (RCRA), and/or laws of the State of New Jersey. Describe your Company's involvement in the remedial activities.*

Answer: At the time it transferred the Jet Center operations to Jet Aviation in 1992, the Company conducted a Level I and Level II (Preliminary Assessment and Site Investigation) in accordance with NJDEP requirements. The Company's consultant concluded that there was no contamination present that would require remediation pursuant to NJDEP's remediation requirements. See response to Question number eight (8).

Question 16. *Identify all leaks, spills, or releases into the environment of any hazardous substances, pollutants, or contaminants that have occurred, or are occurring, at or from the Site. Specifically identify and address any leaks, spills, or releases to the Berry's Creek Study Area. Identify:*

a. when such releases occurred;

b. how the releases occurred;

c. the amount of each hazardous substances, pollutants, or contaminants so released (for substances contained in any sewage effluent from the Site, provide discharge monitoring reports or other data indicating discharge concentrations and loads, as available);

d. where such releases occurred;

e. where such releases entered the Berry's Creek Study Area, if applicable; and

f. the pathway by which such releases entered the Berry's Creek Study Area, including any storm sewers, pipes, or other conveyances discharging to a water body or wetland; or via surface runoff, groundwater discharge, or any spills, leaks, or disposal activities.

Answer: DFJ objects to this question to the extent that the EPA's defined term the "Berry's Creek Study Area" is vague, ambiguous and subject to varying interpretations. By way of example, it is unclear which water bodies/wetlands would be considered tributary or hydrologically connected to Berry's Creek and/or its tributaries. Additionally, the Study Area is defined to include upland properties in the Berry's Creek watershed, including portions of Carlstadt, Wood-Ridge, Rutherford, East Rutherford, Moonachie, Hasbrouck Heights, Little Ferry, Lyndhurst, and Teterboro. This definition could be read to include the individual sites currently or formerly operated by the individual 104(e) recipients. This is inconsistent with the EPA's defined term "DFJ Site" or "Site" insofar as EPA is questioning whether releases from the "Site" have migrated off-site to the Berry's Creek Study Area. Therefore, by definition, this means that each individual site cannot be considered part of the Study Area for purposes of assessing whether on-site discharges have impacted the Berry's Creek Study Area. Subject to the foregoing objection and without waiver thereof, DFJ offers the following response: See responses to Question numbers eight (8) and fifteen (15) above. The Company has had no leaks, spills, discharges or releases of hazardous substances, pollutants, or contaminants at the Site. Pursuant to the investigation performed by DRAI, there were no leaks, spills, discharges or releases into the Berry's Creek Study Area of hazardous substances or wastes attributable to the Company's operations at the Site.

Question 17. *Please complete the form on page 5, below. Indicate on the form whether each of the chemicals listed has ever been released from the Site to the Berry's Creek Study Area, including creeks, ditches, or other water bodies, or wetlands. Follow all additional instructions on the form. In addition, please answer Question 16, above, specifically addressing any chemicals for which you answered "yes".*

Answer: DFJ objects to this question to the extent that the EPA's defined term the "Berry's Creek Study Area" is vague, ambiguous and subject to varying interpretations. By way of example, it is unclear which water bodies/wetlands would be considered tributary or hydrologically connected to Berry's Creek and/or its tributaries. Additionally, the Study Area is defined to include upland properties in the Berry's

Creek watershed, including portions of Carlstadt, Wood-Ridge, Rutherford, East Rutherford, Moonachie, Hasbrouck Heights, Little Ferry, Lyndhurst, and Teterboro. This definition could be read to include the individual sites currently or formerly operated by the individual 104(e) recipients. This is inconsistent with the EPA's defined term "DFJ Site" or "Site" insofar as EPA is questioning whether releases from the "Site" have migrated off-site to the Berry's Creek Study Area. Therefore, by definition, this means that each individual site cannot be considered part of the Study Area for purposes of assessing whether on-site discharges have impacted the Berry's Creek Study Area. Subject to the foregoing objection and without waiver thereof, DFJ offers the following response: See response to Question 14 above. See response to EPA Chemical Release Questionnaire confirming that none of the chemicals listed on page 5 of the Request for Information has ever been released by the Company from the Site into the Berry's Creek Study Area, including creeks, ditches, or other water bodies, or wetlands.

Question 18. *Identify all companies, firms, facilities, and individuals (hereafter referred to as "customers") from whom your Company obtained, or obtains, materials containing Industrial Waste as defined in Number 6 of the Definitions and whose Industrial Waste was, or is, treated, stored, handled or disposed of at the Site. For each such customer:*

a. Describe the relationship (the nature of services rendered and products purchased or sold) between your Company and the customer;

b. Provide Copies of any agreements or/and contracts between your Company and the customer;

c. Provide the name and address of each customer who sent such materials, including contact person(s) within said customer;

d. Provide shipping and transaction records pertaining to such Industrial Wastes sent by each customer, including but not limited to invoices, delivery receipts, receipts acknowledging payment, ledgers reflecting receipt of payment, bills of lading, weight tickets, and purchase orders; and

e. Provide the name and address of all companies and individuals who transported, or transport, Industrial Wastes to the Site.

Answer: The Company does not accept, treat, store, handle or dispose of Industrial Waste generated by the customers or any other third parties at the Site.

Question 19. *For each customers' Industrial Wastes handled, treated, stored, or disposed of at the Site, describe:*

i. the volume;

ii. the nature;

iii. chemical composition;

iv. color;

v. smell;

vi. physical state (e.g., solid, liquid);

vii. *any other distinctive characteristics; and*
viii. *the years during which each customer's materials were handled, treated, stored, or disposed of at the site.*

Answer: Not applicable.

Question 20. *Please supply any additional information or documents that may be relevant or useful to identify other companies or sources that sent industrial wastes to the Site.*

None.

Question 21. *Please state the name, title and address of each individual who assisted or was consulted in the preparation of your response to this Request for Information and correlate each individual to the question on which he or she was consulted.*

Answer: Peter Rothwell, Esq., Corporate Secretary, as to all questions.
Marc S. Faecher, Esq., Waters, McPherson, McNeill, as to all questions.
Steve Mosca of Jet Aviation Teterboro, Inc. – (Question 4).
Bob Basso, Vice President of Human Resources, DFJ – (Question 3).
Frank Youngkin, Former General Manager of Jet Center (Question 7).

Question 22. *For each question herein, identify all documents consulted, examined, or referred to in the preparation of the answer or that contain information responsive to the question and provide true and accurate copies of all such documents.*

Answer: DFJ objects to this Question to the extent that it is over broad, unduly burdensome and not reasonably calculated to assist EPA in its investigation of the Berry's Creek Study Area. DFJ further objects to this Question in that the terms "consulted" and "examined" are not defined and may be subject to differing interpretations. DFJ has "consulted" and "examined" many files in an effort to locate the historical documents requested by EPA in the context of this 104(e) request, and it would be unduly burdensome to reproduce all of these files here. Subject to the foregoing objection, and without waiver thereof, DFJ refers EPA to the documents produced by the Company in response to this information request.

368613.2

Request for Information Regarding Chemical Releases to the Berry's Creek Study Area

* * *

Instructions: As instructed in Question 17, please complete this form by marking the appropriate spaces. Indicate whether each of the chemicals listed has ever been released from the Site to the Berry's Creek Study Area, including creeks, ditches, or other water bodies, or wetlands. Follow additional instructions below. Return the completed form along with your other responses to the Request for Information in the Matter of the Berry's Creek Study Area, Bergen County, New Jersey. N/A signifies no information available.

	Yes	No	N/A
acenaphthene		X	
acenapthylene		X	
anthracene		X	
aluminum		X	
antimony		X	
arsenic		X	
benz(a)anthracene		X	
benzene		X	
benzo(a)pyrene		X	
benzo(b)fluoranthene		X	
benzo(g,h,i)perylene		X	
benzo(k)fluoranthene		X	
bis(2-ethylhexyl)phthalate		X	
butyl benzyl phthalate		X	
cadmium		X	
chlorinated dibenzo-p-dioxins (if "yes", please list specific dioxin compounds on a separate sheet)		X	
chlorinated dibenzofurans (if "yes", please list specific compounds on a separate sheet)		X	
chlorobenzene		X	
chloroform		X	
chromium		X	
chrysene		X	
copper		X	
cyanide		X	
dibenz(a,h)anthracene		X	
dichlorobenzene		X	
1,2-dichloroethene		X	
di-n-butyl phthalate		X	
1,2-dichlorobenzene		X	
1,2-dichloroethane		X	
dieldrin		X	
di-n-octyl phthalate		X	
ethylbenzene		X	
fluoranthene		X	

	Yes	No	N/A
fluorene		X	
hexachlorobenzene		X	
indeno(1,2,3-cd)pyrene		X	
lead		X	
manganese		X	
mercury		X	
methylene chloride		X	
methyl ethyl ketone		X	
methyl mercury		X	
2-methylnaphthalene		X	
naphthalene		X	
nickel		X	
pentachlorophenol		X	
petroleum hydrocarbons		X	
phenanthrene		X	
phenol		X	
polychlorinated biphenyls (if "yes" please list specific congeners and aroclors on a separate sheet)		X	
polycyclic aromatic hydrocarbons (if "yes", please list specific compounds on a separate sheet, if not listed on this page)		X	
pyrene		X	
selenium		X	
silver		X	
1,1,2,2-tetrachloroethane		X	
tetrachloroethylene		X	
thallium		X	
toluene		X	
1,2-trans dichloroethylene		X	
1,1,1-trichloroethane		X	
trichloroethylene		X	
vinyl chloride		X	
xylene		X	
zinc		X	

Peter S. Rothwell
Name of person completing form

Dassault Falcon Jet Corp.
Company

Falcon Jet Site
Site (as defined in the "Instructions")

Exhibit A

HGR. 96

HANGAR 97

HANGAR 98

HANGAR 101

HANGAR 100

HANGAR 99

HANGAR 113

HANGAR 114

TAXIWAY "M"

BUILDING 72

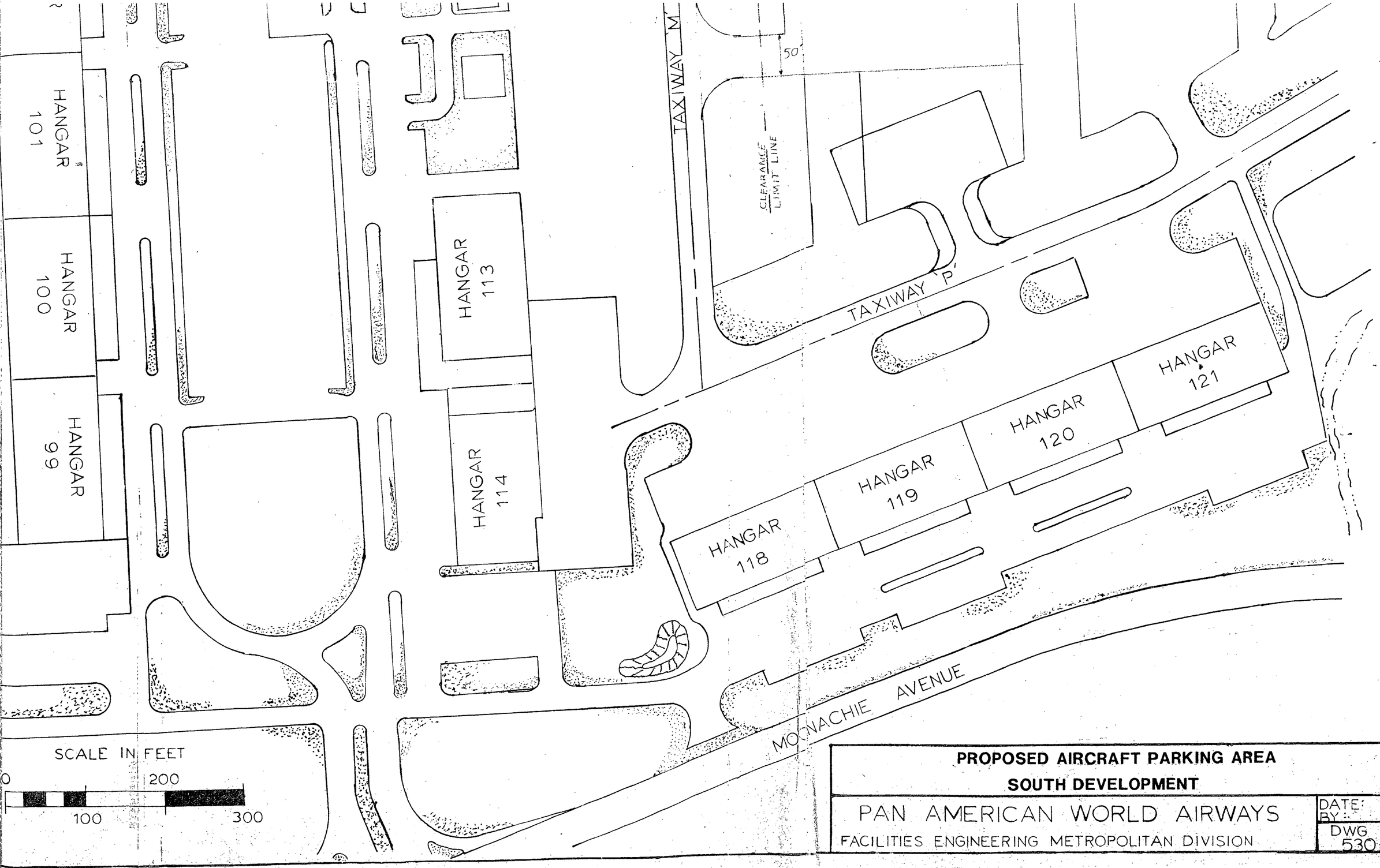
N 732,000

E 2,165,000

SCALE IN FEET

0 200

100 300



PROPOSED AIRCRAFT PARKING AREA
SOUTH DEVELOPMENT

PAN AMERICAN WORLD AIRWAYS
FACILITIES ENGINEERING METROPOLITAN DIVISION

DATE:
BY:
DWG NO. 530-573.4

Exhibit B

Dan Raviv Associates, Inc.
Consultants in hydrogeology, water quality, landfill hydrology and ECRA compliance

September 3, 1992

Waters, McPherson & McNeill
100 Lighting Way
Secaucus, New Jersey 07094

Attention: Steven R. Gray, Esq.

Re: Level I Environmental Site Assessment
Results of Level II Subsurface Investigation
Falcon Jet Corporation
Teterboro Airport
Moonachie, New Jersey
DRAI Job No. 92C1099

Dear Mr. Gray:

As per your request, Dan Raviv Associates, Inc. (DRAI) has conducted a Level I Environmental Site Assessment and a Level II Subsurface Investigation at the facilities at Teterboro Airport presently being utilized by the Falcon Jet Corporation (Falcon Jet). Both reports documenting our findings are enclosed. Based on the recommendations provided in DRAI's Level I Environmental Site Assessment, a subsurface soil investigation was performed at seven of the nine areas of potential environmental concern (APECs) identified by DRAI. These APECs included five underground storage tanks (UGSTs) and oil/water separators (APECs 3, 4, 5, 6 and 9); the exterior drum storage area located behind Hangar 113 (APEC 2) and the emergency generator located behind Hangar 114 (APEC 7). In addition, DRAI provided recommendations in the Level I report regarding the cleanup of oil-stained floors in Hangars 113 and 114 (APECs 1A and 1B) and the investigation of suspected asbestos containing materials (ACMs) in the boiler room of Hangar 119 (APEC 8).

In DRAI's opinion, the analytical results from the soil sampling indicate that no additional investigation or remediation is warranted. This opinion is based on the New Jersey Department of Environmental Protection and Energy's recently proposed soil cleanup standards, which are being used by the agency as interim standards until they are formally adopted. Any change in these standards in the future could modify the need for further investigation or remediation.

The laboratory Tier II deliverables for the soil samples are presented under a separate cover.

If you have any questions or need additional information, please call.

Very truly yours,

DAN RAVIV ASSOCIATES, INC.

Dawn M. Pompeo
Project Manager

DMP/oar
D1956/LET-2.WP5
Enc.

DUPLICATE

Dan Raviv Associates, Inc.
Consultants in hydrogeology, water quality, landfill hydrology and ECRA compliance

LEVEL I ENVIRONMENTAL SITE ASSESSMENT
and
RESULTS OF LEVEL II SUBSURFACE INVESTIGATION

FALCOLN JET CORPORATION
TETERBORO AIRPORT
MOONACHIE, NEW JERSEY

DRAI JOB NO. 92C1099

prepared for:

Waters, McPherson & McNeill
100 Lighting Way
Secaucus, New Jersey 07094
Attention: Steven R. Gray, Esq.

prepared by:

Dan Raviv Associates, Inc.
57 East Willow Street
Millburn, New Jersy 07041

September 3, 1992

Dan Raviv Associates, Inc.
Consultants in hydrogeology, water quality, landfill hydrology and ECRA compliance

September 3, 1992

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57 East Willow Street, Millburn, New Jersey 07041 (201) 564-6006/FAX (201) 564-6442

The laboratory Tier II deliverables for the soil samples are presented under a separate cover.

If you have any questions or need additional information, please call.

Very truly yours,

DAN RAVIV ASSOCIATES, INC.

Dawn M. Pompeo
Project Manager

DMP/oar
D1956/LET-2.WP5
Enc.

Dan Raviv Associates, Inc.
Consultants in hydrogeology, water quality, landfill hydrology and ECRA compliance

LEVEL I ENVIRONMENTAL SITE ASSESSMENT
and
RESULTS OF LEVEL II SUBSURFACE INVESTIGATION

FALCOLN JET CORPORATION
TETERBORO AIRPORT
MOONACHIE, NEW JERSEY

DRAI JOB NO. 92C1099

prepared for:

Waters, McPherson & McNeill
100 Lighting Way
Secaucus, New Jersey 07094
Attention: Steven R. Gray, Esq.

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Secaucus, New Jersey 07094

Attention: Steven R. Gray, Esq.

Re: Level I Environmental Site Assessment
Falcon Jet Corporation
Teterboro Airport
Moonachie, New Jersey
DRAI Job No. 92C1099

Dear Mr. Gray:

As per your request, Dan Raviv Associates, Inc. (DRAI) has conducted a Level I Environmental Site Assessment of the facilities at Teterboro Airport presently being utilized by the Falcon Jet Corporation (Falcon Jet). Activities included a site inspection on July 21, 1992, a review of historical aerial photographs, an environmental database search and discussions with local and state officials. The purpose of this report is to summarize our findings.

SITE DESCRIPTION

Teterboro Airport encompasses portions of the boroughs of Teterboro, Hasbrouck Heights and Moonachie in Bergen County, New Jersey (Figure 1). The airport is owned by the Port Authority of New York and New Jersey and operated by Johnson Controls World Services, Inc. (Johnson Controls) of Moonachie, New Jersey. According to the Moonachie Tax Assessor's office, all of Teterboro Airport is identified as Lot 1, Block 76. The subject site includes the facilities presently being utilized by Falcon Jet in the southern section of Teterboro Airport which is bounded to the south by Moonachie Avenue. The site is bordered to the east, west and north by airport property; south of the site, on the opposite side of Moonachie Avenue, is Metropolitan Mobile Homes, a trailer park. Further east along Moonachie Avenue is a wine importer known as Leonard Kreusch Wine Storage.

The Falcon Jet facilities include Hangars 113, 114, 119 and an airport terminal building (Figure 2). Falcon Jet provides general aviation services to the public and also services and maintains aircraft manufactured by Falcon Jet's parent Dassault Aviation.

Hangar 114 is located north of Billy Diehl Road and east of Charles Lindbergh Place; both of these are airport service roads. Hangar 113 adjoins Hangar 114

to the north. The terminal building, designated Building 112, is a short distance to the northeast of Hangar 113. Hangar 119 is situated north of Billy Diehl Road and east of Hangar 114 within a four-building complex that also includes Hangars 118, 120 and 121. Hangars 113, 114 and 119 are all located along airport taxiways and have adjoining parking areas.

The property is supplied with water by the Hackensack Water Company and is serviced with sanitary sewer connections by the Bergen County Utilities Authority (BCUA). Each building is heated by gas supplied by Public Service Electric and Gas (PSE&G). Two exterior electrical transformers are located on the property: one adjacent to Hangar 113; the other adjacent to Hangar 119. Both transformers, which are situated on concrete pads, are in good condition and maintained by PSE&G. DRAI has contacted PSE&G to inquire if the transformers contain polychlorinated biphenyl (PCB)-contaminated dielectric fluid. PSE&G has not yet responded to the inquiry. An exterior emergency generator is located adjacent to the north side of Hangar 114.

Underground Storage Tanks (UGSTs)

Based on a review of information provided by Falcon Jet and Johnson Controls, DRAI has determined that five steel UGSTs exist on the subject property. Four of the tanks are each associated with an oil/water separator. As wastewater passes through the separator, the oil is removed and stored in the UGST. A detailed diagram of the oil/water separators used at this facility is presented on Figure 3. The fifth UGST functions as a waste holding tank; this tank receives any discharges to the trench and floor drain systems in Hangar 113.

The location, size, identification number, use, installation date, integrity and status of each UGST is listed on the following table. UGST locations are presented on Figure 2.

Hangar No.	Tank Size (Gallons)	Tank No.	Use	Installation Date	Integrity	Status
113	550	E-44	Oil/Water Separator	1979	Unknown	Active
113	550	E-45	Waste Holding	1979	Unknown	Active
114	280	E-46	Oil/Water Separator	1972	Unknown	Active
114	280	E-47	Oil/Water Separator	1972	Unknown	Active
119	250	E-49	Oil/Water Separator	1971	Unknown	Active

Regulatory Compliance

A review of the "Regulations Implementing the New Jersey Underground Storage of Hazardous Substances Act" (N.J.S.A.58:10A) as administered by the New Jersey Department of Environmental Protection and Energy (NJDEPE) has revealed that the UGSTs present at Falcon Jet are subject to the rules as described in the Applicability section of Subchapter 1 (N.J.A.C.7:14B-1.4). However, the oil/water separators associated with four of the UGSTs are considered to be "waste water treatment tanks" pursuant to N.J.A.C. 7:14B-1.4(b)12. Therefore, the separators are not subject to the underground tank rules or registration requirements, but are subject to New Jersey Pollutant Discharge Elimination System (NJPDES) requirements as discussed below.

Johnson Controls has registered the tanks with the NJDEPE in accordance with Subchapter 2 of the regulations: Registration Requirements and Procedures. The registration number for the 27 UGSTs present at Teterboro Airport is 0099246.

In accordance with the regulations cited above, all existing metallic UGST systems without corrosion protection must be retrofitted with cathodic protection by December 22, 1993 pursuant to N.J.A.C. 7:14B-4.5(c). In addition, a monitoring system must be installed with all existing UGSTs in accordance with N.J.A.C. 7:14B-6. Due to the fact that the UGSTs at Falcon Jet receive less than 25 gallons of product at a time, the tanks are not required to be upgraded with overfill protection and spill prevention devices.

The air stack adjacent to Hangar 119, which receives boiler emissions is registered with the NJDEPE's Division of Environmental Quality. A copy of Falcon Jet's air permit has been included as Appendix A.

Falcon Jet has an Industrial Wastewater Discharge Permit from the BCUA. This permit, No. 91-173, allows Falcon Jet to discharge industrial process wastewater into BCUA's Little Ferry Treatment Plant via Teterboro's sanitary sewer collection system. Falcon Jet is in the process of applying for permit renewal; the present permit expires on August 22, 1992. A copy of Falcon Jet's Industrial Discharge Permit has been included as Appendix B.

According to Rebecca Manis of the NJDEPE's Metro Bureau of Water and Hazardous Waste Enforcement, Teterboro Airport is in compliance with it's storm water discharge permit. Under the requirements of the permit, samples of the airport's storm water are collected on a monthly basis and analyzed for petroleum hydrocarbons (PHCs). Storm water samples are also collected quarterly and analyzed for flow rate, chemical oxygen demand (COD), total suspended solids (TSS), Ph and mercury. All water sample analytical results are reported to the NJDEPE.

In accordance with the federal Resource Conservation and Recovery Act (RCRA), all hazardous wastes stored on site are disposed of within 90 days. Falcon

Jet utilizes a hazardous waste hauler to properly dispose of all hazardous waste generated by the facility. A copy of a hazardous waste manifest for waste oil removed from the Falcon Jet facility has been included as Appendix C.

SITE HISTORY

Around the year 1920, airplanes began using a sod runway in Teterboro. In 1946, the first asphalt runways and first control tower were built. The Port Authority of New York and New Jersey purchased the airport in 1949. All of the buildings on the subject site were constructed between 1969 and 1980.

Hangar 119 was constructed in 1971. The original tenant was the Business Jets Division of Pan American (Pan Am) Airline. In 1972, Avions Marcel Dassault, a business partner of Pan Am and the parent company of Falcon Jet, moved into Hangar 119 under the name Falcon Jet.

Hangar 114 was constructed in 1972, Hangar 113 in 1978 and Building 112 in 1979. Falcon Jet is the original tenant of all three buildings.

HISTORICAL AERIAL PHOTOGRAPHS

DRAI reviewed aerial photographs of the subject site from 1940, 1966 and 1974. The 1940 photograph indicates that the site was used for agricultural purposes; several farm buildings are present. The surrounding area is comprised primarily of farmland and woodlands.

In the 1966 photograph, the structures which had occupied the site have been removed. The agricultural fields were no longer under cultivation. A drainage ditch had been dug from west to east across a portion of the site. South of the subject site, a mobile home park had been established on the opposite side of Moonachie Avenue. To the west, a large rectangular building was present. A runway had been constructed in the eastern portion of what today is the airport. In general, the surrounding area is more developed in comparison to the site in the 1940 photograph.

In the 1974 photograph, the airport runway was expanded and five buildings had been constructed. A portion of the airport property is still undeveloped. Two industrial buildings were present south of the subject site, on the opposite side of Moonachie Avenue. In general, the area south of the subject site is more commercially developed than in the 1966 photograph.

SITE INSPECTION

On July 21, 1992 DRAI personnel inspected the site for the purpose of

identifying any areas of potential environmental concern (APECs). Mr. Robert Fantozzi, Accounting Manager for Falcon Jet, was present during the inspection.

DRAI has determined that all of the underground oil/water separators and their associated UGSTs are APECs due to the fact that their integrity is unknown.

Building 112

Building 112 is comprised of approximately 2,000 square feet and functions as an airport terminal building. Falcon Jet schedules flight arrangements from the offices in this facility. The building is enclosed by a fence and is surrounded by grass. No APECs were identified by DRAI in this area.

Hangar 113

Hangar 113 occupies 45,425 square feet and adjoins Hangar 114 to the north. Office space, storage space and a hangar are contained in the building, which is utilized to service, wash and store aircraft. One 55-gallon drum of waste oil is located in the corner of the building. Oily residues were observed on the floor adjacent to the drum. The oil-stained floor has been designated as APEC 1A. Steel cylinders of nitrogen, argon and oxygen gas, used to service aircraft, are stored in the hanger. The former engine repair shop, which is presently being utilized as a tool room, is located in the southern portion of the building. Within the tool room is a small chemical storage room. Some of the materials stored here include solvents, alcohol, varsol and methyl ethyl ketone (MEK).

Near the northwest corner of Hangar 113 is a paved, fenced-in exterior drum storage area. Approximately fifteen 55-gallon drums of various chemicals and waste oil, including mineral spirits, MEK, alcohol, varsol, de-icing fluid and cleaning solvents are stored on wooden pallets. The drums were observed to be in good condition, and the pavement was not stained. On August 6, 1992 DRAI was informed that this area has not always been paved and that prior spills of waste materials occurred when the drum storage area was composed of a layer of gravel over soil. Therefore, this area has been designated as APEC 2.

A concrete-lined trench drain, approximately 120 feet long, 1 foot wide and 1 foot deep is located in the center of the hangar floor. Sediment was observed at the base of the drain, which is connected to an underground oil/water separator. The separator is located adjacent to the west side of Hangar 113 in the drum storage area. The separator and its associated 550-gallon UGST, designated E-44, have been identified as APEC 3. Any waste water that enters the trench drain is discharged to the sanitary sewer system.

South of the exterior drum storage area is the air compressor room for Hangar 113. A small pipe, approximately one inch in diameter, which presumably originated from the compressor, was discharging an oily water mixture into a three-inch diameter floor drain, which discharges into the sanitary sewer system.

South of the compressor room and adjacent to the west side of Hangar 113 is the former sheet metal and machine room. This area is currently used for storage. Two three-inch floor drains in this room discharge to the sanitary sewer.

East of the sheet metal room are the former cleaning facility, tank cleaning room and battery room. North of these rooms is the former paint spray shop. In general, these four rooms are presently utilized for storage. Each of these rooms contains a three-inch floor drain which is connected to a 550-gallon waste-holding UGST, designated E-45, located adjacent to the west side of Hangar 113. This UGST has been identified as APEC 4. According to information provided by Falcon Jet, the UGST was pumped out on June 2, 1988. A hazardous waste manifest indicates that the liquid removed from this tank contained 65% jet fuel, 30% hydraulic oils and 5% water. The manifest is attached as Appendix D.

Hangar 114

Hangar 114 consists of a 24,776 square foot hangar, storage space and adjoining offices. Aircraft are serviced, washed and stored in the hangar area. North of and directly adjoining the hangar is the former engine repair shop, presently being used as a storage room. A single three-inch diameter floor drain in the room discharges to the sanitary sewer system.

West of and adjacent to the former engine repair shop is the former parts and tool-cleaning room, now being utilized as a storage area. The room contains a single three-inch diameter floor drain which is connected to the sanitary sewer system and a four-inch diameter floor drain that discharges into an oil/water separator, located west of the building wall. The associated 280-gallon UGST, designated as E-47, is located in close proximity to the separator, beneath the building floor. The separator and UGST have been identified as APEC 5. Any wastewater that enters the trench drain is discharged to the storm water drainage system after it passes through the oil/water separator.

Two 55-gallon drums of waste oil were located in opposite corners of the building. Oil residues were observed on the floor near the drums. The oil-stained floors in Hangar 114 have been designated APEC 1B. One 55-gallon drum of 99.94% 2-methoxyethanol, a fuel additive, was located along the south wall of the hangar. A concrete-lined drain, approximately 70 feet long, 1 foot wide and 1 foot deep is situated in the center of the hangar floor. The drain is covered by a steel grate and discharges to an oil/water separator located east of the building. The separator and its associated 280-gallon UGST, designated E-46, have been identified as APEC 6. Any waste water that enters

the trench drain is discharged to the storm water drainage system after it passes through the oil/water separator.

An exterior emergency gas-powered generator is located on the north side of Hangar 114 on a concrete pad. A small rubber hose emanated from the bottom of the generator. Beneath the hose, the concrete pad was stained, and a liquid absorbent had been spread on this area of the pad and the adjacent soils which have been designated APEC 7.

Hangar 119

Hangar 119 contains 20,000 square feet and consists of a hangar and office space. The primary use of this building is airplane storage. Becton Dickinson leases space in the Hangar from Falcon Jet for it's flight operations. The boiler room for the building contains piping which is insulated with suspected asbestos containing materials (ACMs). These suspected ACMs have been designated APEC 8 (Figure 2). An air stack adjacent to the southern exterior of Hangar 119 receives the boiler emissions. A concrete-lined trench drain, approximately 70 feet long, 1 foot wide and 1 foot deep is located in the center of the hangar floor. The drain is covered by a steel grate and discharges to an oil/water separator located north of the building. The separator and its associated 250-gallon UGST, designated E-49, have been identified as APEC 9. Any waste water that enters the trench drain is discharged to the storm water drainage system after it passes through the oil/water separators.

ENVIRONMENTAL DATABASE SEARCH

DRAI requested a national database search of known or suspected state and federal hazardous waste sites within a one-mile radius of Falcon Jet. The information was compiled by VISTA Environmental Information, Inc. (VISTA) of San Diego, California. DRAI reviewed the database report for the purpose of identifying known (National Priority List [NPL]) or potential (Comprehensive Environmental Response Compensation and Liability Information System [CERCLIS]) superfund sites, leaking underground storage tank (LUST) sites, solid waste and landfill (SWLF) facilities, New Jersey hazardous waste sites (HAZWST), New Jersey State Priority List sites (SPL) and RCRA notifiers. The database report is attached as Appendix E.

Four sites within a one-mile radius of the Falcon Jet facility were identified from the CERCLIS database, seven from the LUST incident list and two from the SPL list during the above-referenced search. These sites are listed below:

Facility	Location	Database	Distance From Site
Pur-All Paints Products Co., Inc.	500 S. Commercial Ave. Carlstadt, NJ	CERCLIS	0.43 miles South
Aeroclo Corp.	150 Anderson Ave. Moonachie, NJ	CERCLIS	0.41 miles West
Yellow Freight Systems, Inc.	Dell Road Carlstadt, NJ	CERCLIS	0.60 miles South
Consolidated Freightways, Inc.	100 Kero Road Carlstadt, NJ	CERCLIS	0.83 miles Southwest
Esselte Pendaflex Inc.	10 Caesar Place Moonachie, NJ	LUST	0.30 miles Southeast
Ryder Truck Rental	125 Commercial Ave. Carlstadt, NJ	LUST	0.38 miles Southwest
President Container Inc.	200 West Commercial Ave. Moonachie, NJ	LUST	0.26 miles Southwest
Sellers & Josephson Manufacturing Northwest	50 Armor Ave. Carlstadt, NJ	LUST	0.38 miles
Teterboro Airport	90 Moonachie Ave. Teterboro, NJ	LUST	0.33 miles Northwest
Teterboro Airport	90 Moonachie Ave. Teterboro, NJ	LUST	0.33 miles Northwest
Pantone, Inc.	55 Knickerbocker Road Moonachie, NJ	LUST	0.48 miles Southwest
L&L White Metal Casting Corp.	480 Gotham Parkway Carlstadt, NJ	SPL	0.83 miles Southwest
Ventron/Velsicol (Berry's Creek)	Ethel Blvd. Wood Ridge, NJ	SPL	0.83 miles Northwest

In addition, three sites were identified from the RCRA Notification Data File, all being listed as small quantity RCRA generators. The names and locations of these sites are provided in the database report attached as Appendix E.

Regulatory Agencies

DRAI contacted representatives of the following agencies regarding the subject site and the facilities referenced above:

NJDEPE Bureau of Environmental Evaluation and Cleanup Responsibility Assessment (BEECRA)

NJDEPE Bureau of Community Relations (BCR)

NJDEPE Metro Bureau of Regional Enforcement (MBRE)

NJDEPE Bureau of Underground Storage Tanks (BUST)

Moonachie Fire Prevention Office (MFPO)

Moonachie Health Department (MHD)

Moonachie Tax Assessor (MTA)

Teterboro Fire Prevention Office (TFPO)

Teterboro Health Department (THD)

Teterboro Tax Assessor (TTA)

DRAI contacted BEECRA, BUST and the BCR in order to obtain information regarding the sites identified from the database search, as well as any other NJDEPE-suspected hazardous waste sites located within a one-mile radius of the Falcon Jet facility. Conversations with these agencies provided DRAI with information on the 13 sites listed above.

(1) Pur-All Paint Products Co., Inc. (Pur-All)
500 South Commercial Avenue
Carlstadt, New Jersey
CERCLIS Site
ECRA Case No. 84057

BEECRA indicated that minor spillage in the drum storage area and 193 drums of paint waste were removed from the site. Pur-All then received a Negative Declaration from BEECRA on July 16, 1984, indicating that all areas of environmental concern had been addressed to the NJDEPE's satisfaction.

(2) Aeroclo Corp.
150 Anderson Avenue
Moonachie, New Jersey
CERCLIS Site
ECRA Case Nos. 86212 and 88601

The first BEECRA case concerning Aeroclo resulted in the removal of 120 cubic yards of PHC contaminated soil. BEECRA then issued a letter of full compliance on February 2, 1988.

The second case received a Negative Declaration from BEECRA on September 22, 1988 indicating that all areas of environmental concern had been addressed to the NJDEPE's satisfaction.

(3) Yellow Freight Systems, Inc.
Dell Road
Carlstadt, New Jersey
CERCLIS Site

No information available.

(4) Consolidated Freightways Incorporated
100 Kero Road
Carlstadt, New Jersey
CERCLIS Site

No information available.

(5) Esselte Pendaflex, Inc.
10 Caesar Place
Moonachie, New Jersey
LUST Site
BUST Case No. 9005300912
ECRA Case No. 91732

BEECRA reported that the floors had been stained with ink and were cleaned via pressure wash. Two 2,500-gallon underground storage tanks containing xylene and methanol were removed from the site; post-excavation sampling was conducted to confirm the tank's integrity. According to BUST, the case has been closed. BEECRA reported that Esselte received a Negative Declaration on April 30, 1992 indicating that all areas of environmental concern had been addressed to the NJDEPE's satisfaction.

(6) Ryder Truck Rental
125 Commercial Avenue
Carlstadt, New Jersey
LUST Site
BUST Case No. 9103261618

BUST reported the status of this site as Phase II, indicating that a ground water investigation is occurring. No further information was available.

(7) President Container Incorporated (PCI)
200 West Commercial Avenue
Moonachie, New Jersey
LUST Site
BUST Case No. 9004201329

BUST reported that this is an active case, however, a Discharge Investigation Corrective Action Report (DICAR) has yet to be filed, indicating that PCI is out of compliance.

(8) Sellers & Josephson Manufacturing
50 Amor Avenue
Carlstadt, New Jersey
LUST Site
ECRA Case No. 86269

BEECRA reported that three UGSTs were removed and the sumps and catch basins on site were cleaned. Ground water quality was not impacted. According to BUST, the case was closed on May 30, 1984. BEECRA issued a Negative Declaration in September 1991, indicating that all areas of environmental concern had been addressed to the NJDEPE's satisfaction.

(9) Teterboro Airport
90 Moonachie Avenue
Teterboro, New Jersey
LUST Site
BUST Case No. 9010121412

BUST reported that a DICAR was received on October 17, 1991 and that the case is still active.

(10) Teterboro Airport (Teterboro Aircraft Service)
Teterboro, New Jersey
LUST Site
BUST Case No. 8907121009

The MBRE reported that the case closed as of September 1989.

(11) Pantone, Inc.
55 Knickerbocker Road
Moonachie, New Jersey
LUST Site
BUST Case No. 891120511

According to BUST, the case was closed on August 22, 1991.

(12) L&L White Metal Casting Corp.
480 Gotham Parkway
Carlstadt, New Jersey
SPL Site
ECRA Case No. 87471

L&L manufactured and electroplated line castings. Remediation consisted of the removal of approximately 500 cubic yards (750 tons) of cyanide contaminated soil. Wells were installed, which indicated that ground water was not impacted. BEECRA issued a full compliance letter on December 20, 1990, indicating that a cleanup has been completed to the satisfaction of the NJDEPE.

(13) Ventron/Velsicol (Berry's Creek)
Ethel Boulevard
Wood-Ridge, New Jersey
SPL Site

A mercury processing facility operated at the site from 1929-1974 resulting in mercury contamination of Berry's Creek. An initial ground water investigation has been completed as well as remediation of off-site mercury contaminated soil in a residential area of Wood-Ridge. The MBRE reported that illegal dumping of petroleum products occurred on April 10, 1991 and an unknown liquid spill occurred on May 24, 1991. The case status for the mercury contamination is still active, and a Remedial Investigation/Feasibility Study (RI/FS) is presently underway.

Conversations with local officials in Teterboro and Moonachie revealed no record of past complaints or violations at the Falcon Jet facility.

RECOMMENDATIONS

Based on DRAI's July 21, 1992 site inspection; information obtained from the environmental database search; discussions with local and state agencies and a review of historical aerial photographs; DRAI recommends the following:

APECs 1A and 1B: Oil-stained Floors in Hangars 113 and 114
Minor spills of petroleum products have occurred near the interior drum storage areas of Hangars 113 and 114. DRAI recommends that the floors are steam-cleaned and the resulting waste water properly disposed of.

APEC 2: Exterior Drum Storage Area
DRAI recommends the completion of three soil borings within the exterior drum storage area in order to determine whether underlying soils were impacted by spills or leaking drums when the area was unpaved. Samples should be collected from the 0 to 6-inch interval of soil beneath the asphalt and any sub-base material encountered. Samples will be visually observed in the field for any staining and each sample will also be screened with an HNu photoionization detector (Hnu). The Hnu is used to detect VOCs and light fractions of petroleum products.

A minimum of three samples should be collected and analyzed for PHCs and volatile organic compounds with a forward library search (VOCs+15). Samples exceeding 1,000 parts per million (ppm) PHC should also be analyzed for base neutral organic compounds with a forward library search (B/Ns+15). If visual observations or Hnu readings indicate that soils have been impacted, DRAI proposes to further extend the boring until visibly clean soils are encountered, in order to delineate the vertical extent of staining. If impacted soils are detected, the most visually stained sample will be collected and analyzed for PHCs, VOCs+15, B/Ns+15 and priority pollutant metals (PP-metals) in order to characterize the contamination. DRAI will provide further recommendations based on the sampling results.

APECs 3, 4, 5, 6 and 9: UGSTs and Oil/Water Separators
DRAI recommends a soil boring program to determine the integrity of the UGSTs and oil/water separators. A minimum of four soil borings should be completed around each tandem of UGST and separator, as depicted on Figure 4. Soil samples should be collected from the 0 to 6 inch depth interval beneath the base of the tank, or at the 0 to 6 inch interval above ground water, whichever is encountered first. All samples should be analyzed for PHCs. The highest sample at each tank area exceeding 1,000 ppm PHC should also be analyzed for VOCs+15, B/Ns+15 and PP-metals.

Based on the analytical results, DRAI will provide further recommendations regarding the tanks and separators.

APEC 7: Staining Adjacent to Emergency Generator

Due to the presence of stained soils beneath a small rubber hose emanating from the generator, DRAI recommends the collection of a soil sample directly adjacent to the concrete pad. The sample should be collected from the surface (0 to 6 inch depth interval) and analyzed for PHCs. If the sample exceeds 1,000 ppm PHC, the sample should also be analyzed for VOCs+15 and B/Ns+15.

Based on the analytical results, DRAI will provide further recommendations regarding the soils adjacent to the generator.

APEC 8: Suspected Asbestos Containing Materials (ACMs)

The pipe insulation in the boiler room of Hangar 119 may contain ACMs and is in friable condition. DRAI has been informed by Falcon Jet that the Port Authority had an asbestos survey completed for the facilities at Teterboro Airport. At this time, the Port Authority has refused to release the results of the survey to DRAI. Therefore, DRAI recommends that Jet Aviation either obtains a copy of the asbestos survey report, or retain the services of a Certified Industrial Hygienist, Certified Asbestos Safety Technician or similarly qualified person to conduct a systematic asbestos inspection/survey. Once all potential ACM areas have been identified, bulk samples should be collected and analyzed by polarized light microscopy (PLM). ACMs in friable condition should be abated by a licensed asbestos contractor as listed by the New Jersey Office of Asbestos Control Licensing, in accordance with all applicable state and federal regulations.

STATEMENT OF LIMITATIONS

The comments and conclusions presented herein are based upon conditions as they existed at the time of DRAI's inspection. This report has been prepared for Jet Aviation's exclusive use. Any reuse of, or reliance on, this report by anyone else without the written consent of DRAI is strictly prohibited.

If you have any questions or need additional information, please call.

Very truly yours,

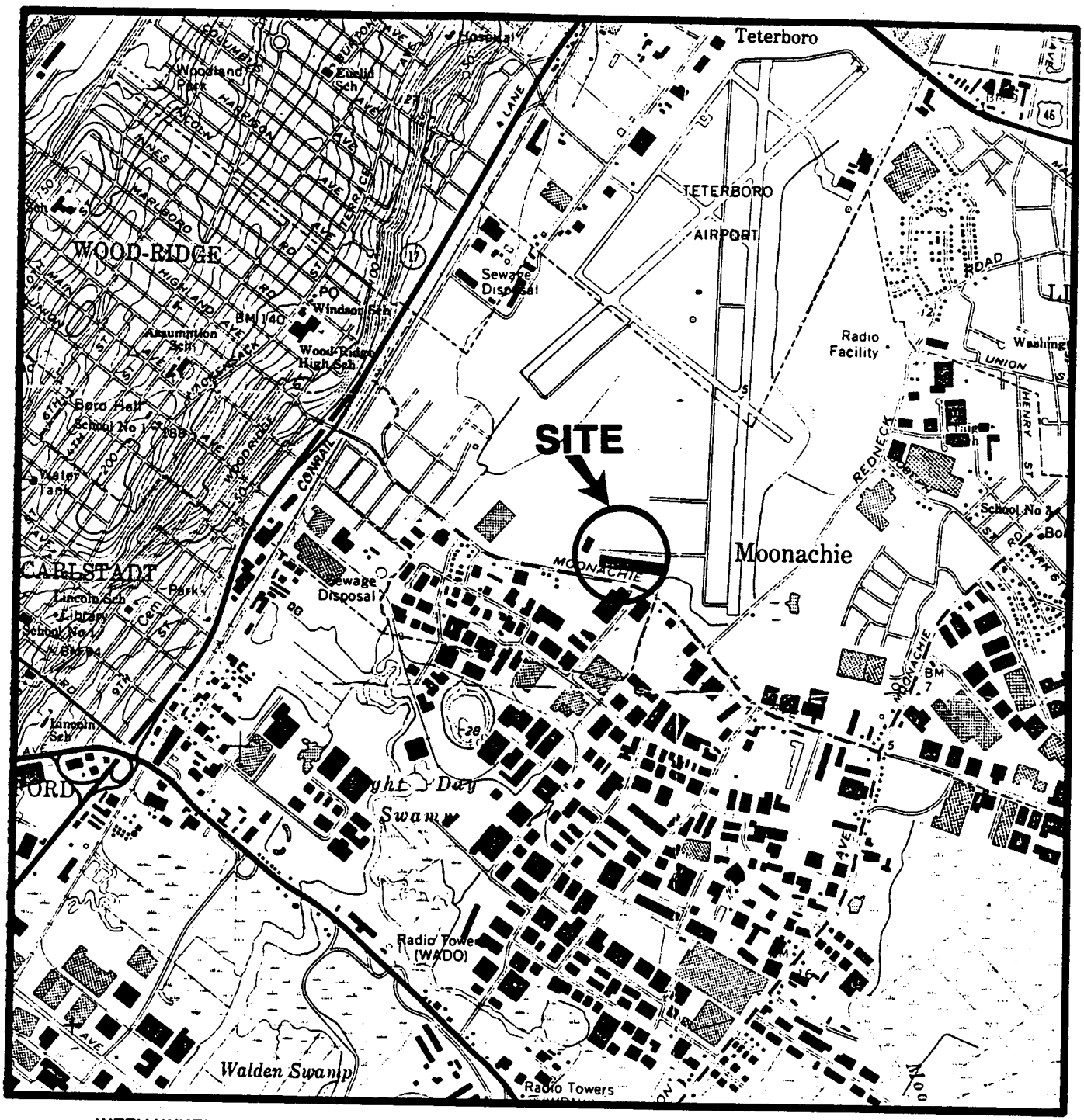
DAN RAVIV ASSOCIATES, INC.

Edward Halasz
Environmental Scientist

Reviewed by: _____
Dawn M. Pompeo
Project Manager

EH/DMP/oar
D1956/LET-3.WP
Enc.

FIGURES



WEEHAWKEN, N.J.-N.Y. QUADRANGLE
7.5 MINUTE SERIES
1981

0 2000 FT.

APPROXIMATE SCALE

N

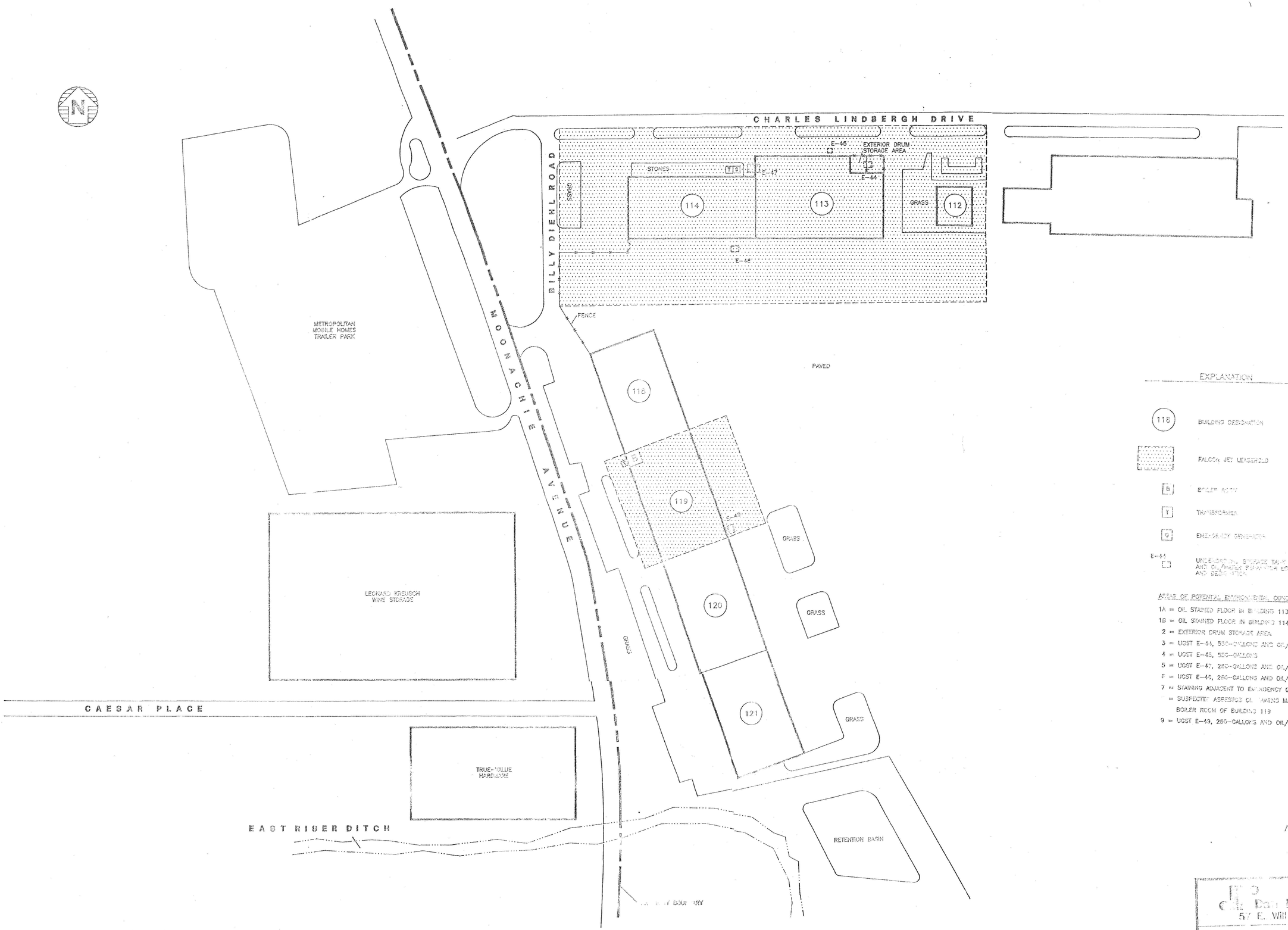
Dan Raviv Associates, Inc.
57 E. Willow Street Millburn, NJ 07041

SITE LOCATION

FALCON JET CORP. - TETERBORO AIRPORT
MOONACHIE, NEW JERSEY

PREPARED BY: EH/ODL	DATE: JULY 1992
JOB NO.: 92C1099	FIGURE: 1

141741



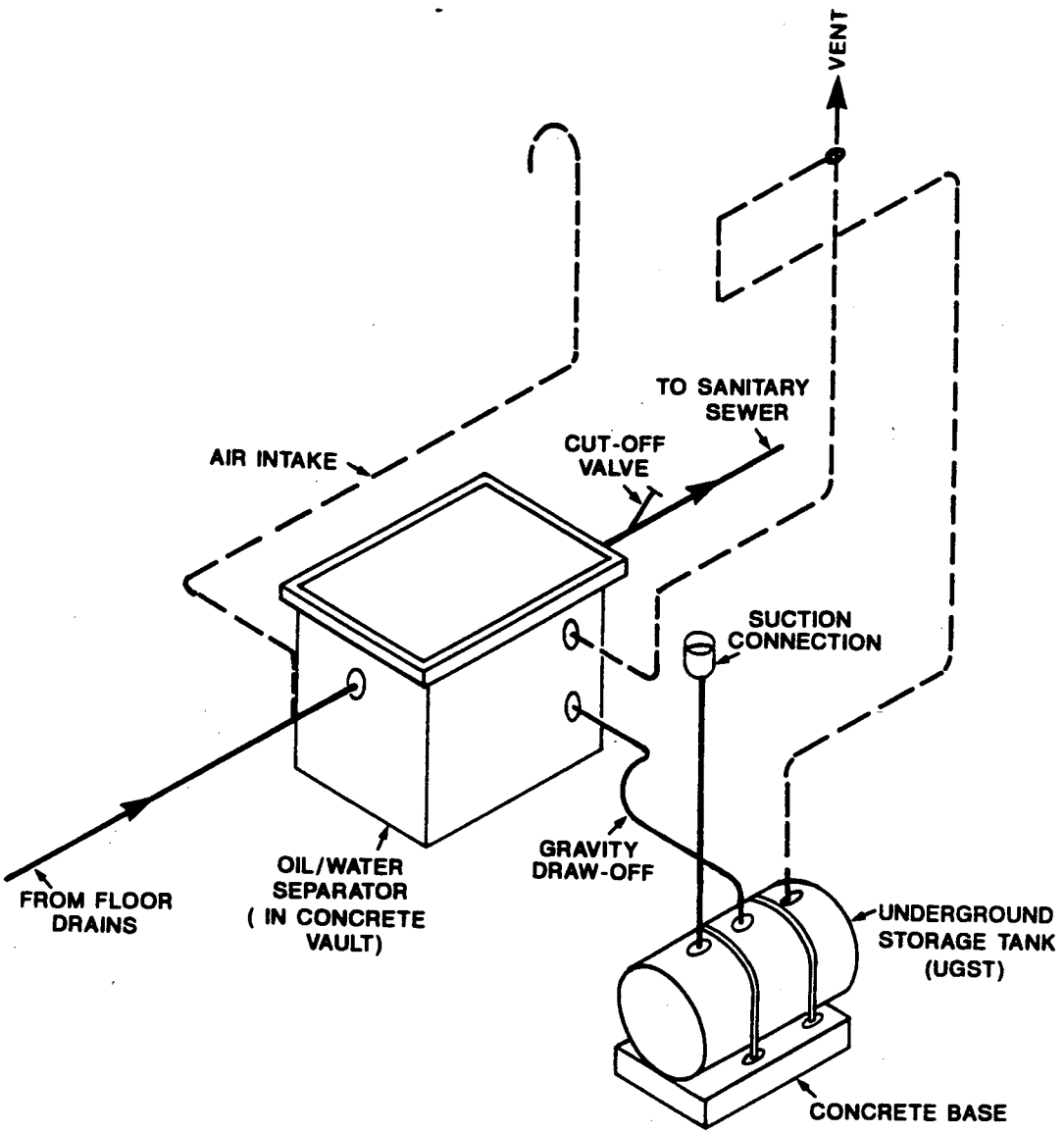
Dan Raviv Associates, Inc.
57 E. Willow Street Millburn, NJ 07041

SITE MAP WITH AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

FALCON JET CORP. - TETERBORO AIRPORT
MOONACHIE, NEW JERSEY

PREPARED BY: KRG/LB	DATE: AUGUST 1992
JOB NO.: 92-1099	FIGURE: 2

1099-01



NOT TO SCALE

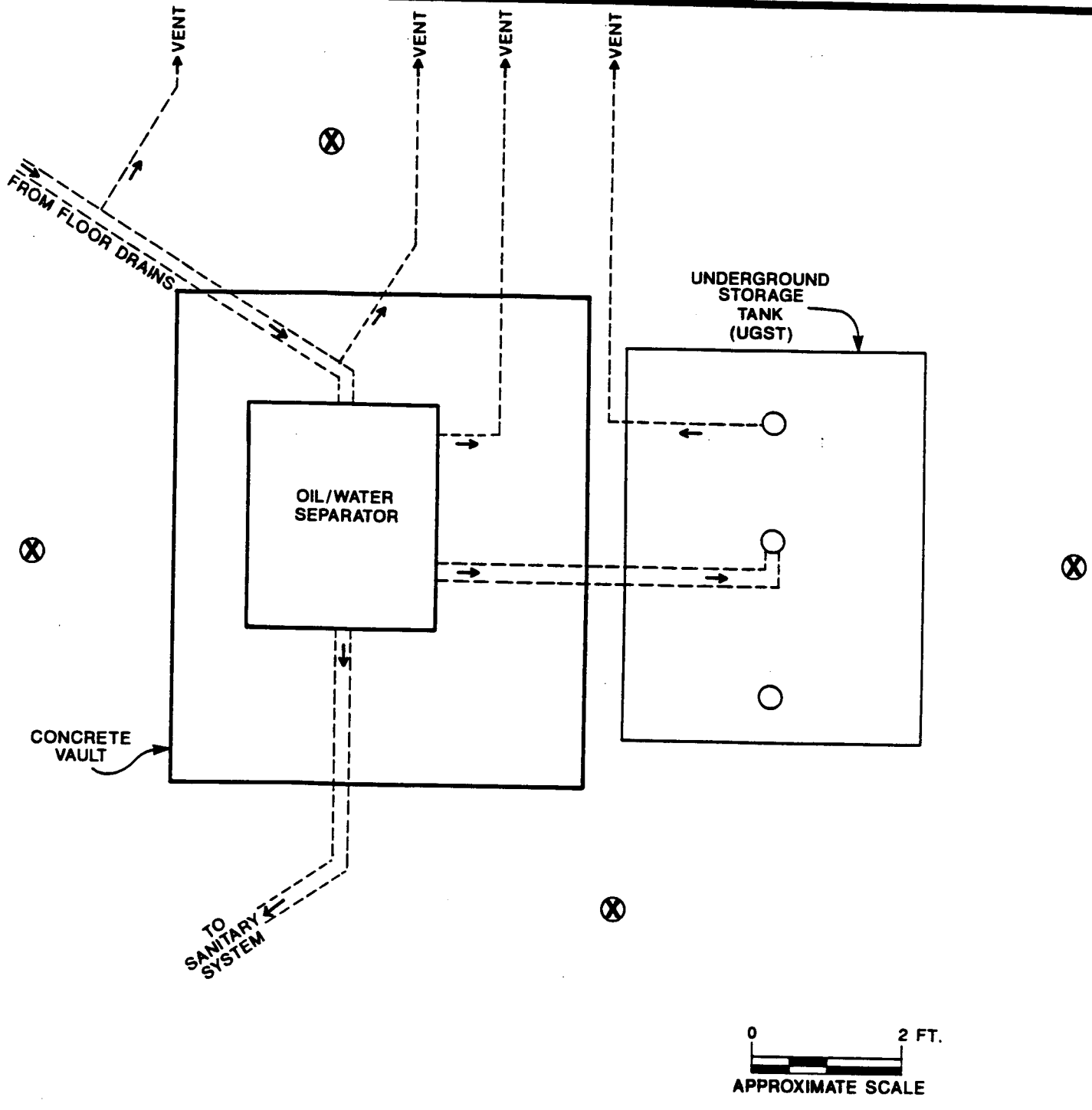
Dan Raviv Associates, Inc.
57 E. Willow Street Millburn, NJ 07041

SCHEMATIC OF UGST AND OIL/WATER SEPARATOR CONSTRUCTION

FALCON JET CORP. - TETERBORO AIRPORT
MOONACHIE, NEW JERSEY

PREPARED BY: KRG/MV	DATE: AUGUST 1992
JOB NO.: 92C1099	FIGURE: 3

141741



EXPLANATION

⊗ PROPOSED SOIL BORING LOCATION

Dan Raviv Associates, Inc.
57 E. Willow Street Millburn, NJ 07041

TYPICAL SOIL BORING LOCATIONS
ADJACENT TO UGST
AND OIL/WATER SEPARATOR

FALCON JET CORP. - TETERBORO AIRPORT
MOONACHIE, NEW JERSEY

PREPARED BY: MK/ODL	DATE: AUGUST 1992
JOB NO.: 92C1099	FIGURE: 4

141741

APPENDIX A

APPENDIX A

Falcon Jet Air Permit

Form VEM01

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF ENVIRONMENTAL QUALITY
AIR POLLUTION CONTROL PROGRAM

All Correspondence must indicate your APC PLANT ID NUMBER

Certificate Number 104046 LOG NUMBER 913598A APC PLANT ID 01445

(Mailing Address)

JOHNSON CONTROLS WORLD SERVICES
90 MOONACHIE AVENUE
TETERBORO NJ 07608

(Plant Location)

TETERBORO AIRPORT
90 MOONACHIE AVENUE
TETERBORO

Applicant's Designation of Equipment HANGAR D119
N.J. Stack No. 003 No. of Stacks 001 No. of Sources 01
Approval 10/11/91 Effective 10/11/91 Expiration 10/11/96

CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT

* FIVE YEAR DIRECT *

THIS FIVE YEAR CERTIFICATE IS BEING ISSUED UNDER THE AUTHORITY OF CHAPTER 106, P.L. 1967 (N.J.S.A. 26:2C-9.2). THE POSSESSION OF THIS DOCUMENT DOES NOT RELIEVE YOU OF THE OBLIGATION TO COMPLY WITH ALL PROVISIONS OF THE NEW JERSEY ADMINISTRATIVE CODE, TITLE 7, CHAPTER 27.

THE EQUIPMENT COVERED BY THIS CERTIFICATE MAY BE SUBJECT TO AT LEAST ONE PERIODIC COMPLIANCE INSPECTION, PURSUANT TO N.J.A.C. 7:27-8.8(C). YOU WILL BE NOTIFIED BY LETTER WITHIN 60 DAYS OF THE EFFECTIVE DATE OF THIS DOCUMENT OF THE MAXIMUM NUMBER OF THESE INSPECTIONS (IF GREATER THAN ONE). PURSUANT TO N.J.A.C. 7:27-8.11, YOU WILL BE INVOICED FOR A $200 FEE AFTER EACH PERIODIC INSPECTION THAT IS CONDUCTED. YOU MAY ALSO BE SUBJECT TO FEES FOR SERVICES THAT ARE PERFORMED BY THE DEPARTMENT IN ACCORDANCE WITH THE CONDITIONS OF APPROVAL OF THIS DOCUMENT. IF YOU FAIL TO PAY A FEE, THE DEPARTMENT MAY ASSESS CIVIL ADMINISTRATIVE PENALTIES AND/OR REVOKE THIS CERTIFICATE.

PURSUANT TO N.J.A.C.7:27-8.7(F), THE DEPARTMENT MAY MODIFY THE CONDITIONS OF APPROVAL OF THIS CERTIFICATE AT THE TIME OF RENEWAL OR AT ANY TIME WHEN THE CERTIFICATE IS IN FORCE, IF DEEMED NECESSARY TO PROTECT HUMAN HEALTH, WELFARE OR THE ENVIRONMENT.

IN ACCORDANCE WITH N.J.S.A. 54:4-3.56 TO 3.58, YOU MAY BE ENTITLED TO AN EXEMPTION FROM TAXATION IF YOUR EQUIPMENT IS TAXED AND IS CONSIDERED TO BE AN AIR POLLUTION CONTROL DEVICE. A TAX EXEMPTION APPLICATION MAY BE OBTAINED FROM THE BUREAU OF NEW SOURCE REVIEW (SEE OTHER SIDE).

IN ACCORDANCE WITH N.J.A.C. 7:27-8.3(D), YOU SHALL MAKE THIS CERTIFICATE READILY AVAILABLE FOR INSPECTION ON THE OPERATING PREMISES.

Approved by: Donald Patterson

APPENDIX B

APPENDIX B

Falcon Jet Industrial Discharge Permit

BERGEN COUNTY UTILITIES AUTHORITY
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

Permit No.: 91-173

Effective Date: 8/22/91

Expiration Date: 8/22/92

Company I.D. No.: 0504

Name and Address of Owner: Falcon Jet Corp.
114 Billy Diehl Road
Teterboro Airport
Teterboro, New Jersey 07608

Location of Activity/Facility: 114 Billy Diehl Road
Teterboro, New Jersey 07608

Type of Permit: Non-categorical/ <99 gpd

In accordance with all terms and conditions in the "Rules and Regulations for the Direct and Indirect Discharge of Wastewater to the Bergen County Utilities Authority Treatment Works", the provisions by which are incorporated in this permit, and applicable provisions of Federal and/or State regulation, permission is hereby granted to discharge industrial process wastewater into the Bergen County Utilities Authority Little Ferry Treatment Plant, via the Borough of Teterboro sanitary sewer collection system, in accordance with wastewater discharge limitations, monitoring requirements, and other requirements set forth in the following tables hereof.

This permit is granted in accordance with the Industrial Wastewater Discharge Permit Application and Questionnaire and accompanying documentation, filed with the Authority, and are considered part of this permit.

Be advised that while the permit is in force, additional information may be required to be submitted and/or discharge limitations may be changed to reflect changes in applicable Federal, State and local regulations. The Permittee hereby agrees to the aforementioned.

STEVEN M. MIZEREK
PRINCIPAL ENGINEER
BERGEN COUNTY UTILITIES AUTHORITY

Table - 1 Discharge Limitations

Parameter	Limitation
Biochemical Oxygen Demand, BOD	BCUA must be notified if over 350 mg/l
Suspended Solids, S.S.	BCUA must be notified if over 350 mg/l
pH	5.5 - 9.5 Daily Range
Total Kjeldahl Nitrogen	200 mg/l Single Sample
Ammonia Nitrogen	100 mg/l Single Sample
Cyanide (T)	0.50 mg/l Single Sample
Oil or Grease	
Non-petroleum origin	200 mg/l Daily Maximum
Petroleum origin	100 mg/l Monthly Average
	150 mg/l Single Sample
Explosivity	5% LEL any 2 successive Readings
	10% LEL any 1 reading

Note:
(T) = Total

APPENDIX C

APPENDIX C

Falcon Jet Waste Oil Hazardous Waste Manifest

P.3/3

VHW-001 (REV. 6/88)

2-118-01

Exhibit 2

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-3

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJD 980525 301 — Manifest Document No. 12151

2. Page 1 of 1 — Information in the shaded are is not required by Federal law.

3. Generator's Name and Mailing Address
FALCON JET
ATTN JERRY
MOONACHIE — 90 MOONACHIE AVE NJ 07606

4. Generator's Phone (201) 288-5300

A. State Manifest Document Number **NJA 1101637**

B. State Generator's ID SAME

5. Transporter 1 Company Name SAFETY-KLEEN CORP.

6. US EPA ID Number ALD 051060408

C. State Trans. ID NJ DEP#9.0

7. Transporter 2 Company Name

8. US EPA ID Number

D. Transporter's Phone (914) 268-44

E. State Trans. ID

9. Designated Facility Name and Site Address
1200 SYLVAN ST
LINDEN NJ 07036

10. US EPA ID Number
0-006-25
NJD 002182697

F. Transporter's Phone ( )

G. State Facility's ID 200761

H. Facility's Phone (201) 862-2000

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a.	X RQ WASTE COMBUSTIBLE LIQUID, N.O.S. (OIL) NA 1993 (9001) (ERG#27)	1	DM	792	P	9001
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
48% ALIPHATIC HYDROCARBONS (C14-C20)
17% ALIPHATIC HYDROCARBONS (C9-C13)
[illegible] TRICHLOROTRIFLUOROETHANE
3% TRICHLOROETHANE, 1,1,1-

K. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information
LIC. CONT#0065586-5 SAM#093193 9040 1982790 044951 2-118-01-9378 X1
EMERGENCY RESP#1-708-825-4650 5788 A: 3038 B: C: D:

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name — Signature — Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name — Signature — Month Day Year

GENERATOR — TRANSPORTER — FACILITY

In case of an emergency or spill immediately call the state the emergency occurred in the N.J. Dept. of Environmental Protection. (609) 292-5540 (Day) (609) 292-7172 (Night)

EPA Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

8 — GENERATOR COPY — SIGNATURE AND INFORMATION MUST BE LEGIBLE ON ALL COPIES

APPENDIX D

APPENDIX D

Falcon Jet UGST E-45 Hazardous Waste Manifest

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

Exhibit 1

Please print or type in black letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJD981491509
2. Page 1 of 1
3. Emergency Response Phone
4. Manifest Document No.
5. Generator's Name and Mailing Address FALCON Jet Corp, 113 Billy Diehl Rd. Teterboro, New Jersey 07608
Generator's Phone (201) 288-5300
6. State Generator's ID NJA 0426722
7. Transporter 1 Company Name CONTINENTAL CARRIERS
8. US EPA ID Number NJD990720658
9. State Transporter's ID SAME
10. Transporter 2 Company Name
11. US EPA ID Number
12. State Trans. ID NJDEPS 5771 (SE)
13. Transporter's Phone 201 727-115
14. Designated Facility Name and Site Address SOLVENTS RECOVERY SERVICE OF NEW JERSEY, INC 1200 Sylvan St. Linden, New Jersey 07036
15. US EPA ID Number NJD002182890
16. State Trans. ID NJ DEPS 5947/X
17. Transporter's Phone
18. State Facility's ID NJD002182897
19. Facility's Phone 201 862-2000

20. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) HM	21. Containers No.	Type	22. Total Quantity	23. Unit Wt/Vol	24. Waste No.
a. WASTE OIL NOS COMBUSTABLE NA 1270 (117) PIN # 015117 DD	015	DM	825	G	X726
b.					
c.					
d.					

Jet Fuel 65%
Hydraulic oil 30%
Water 5%
PIN 015117 DD

25. Special Handling Instructions and Additional Information
T50

27. Transporter Acknowledgement of Receipt of Materials

	Signature	Month	Day
GEORGE F. REGE		06	28
Kevin Ruscoe	Kevin Ruscoe	06	28

28. Discrepancy Indication Space
IA - Change (E)
I - Change (E)

29. Transporter Acknowledgement of Receipt of Materials covered by this manifest except as noted in Item 19

Printed/Typed Name	Signature	Month	Day
SCOTT ELLIOTT		06	28

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

GENERATOR

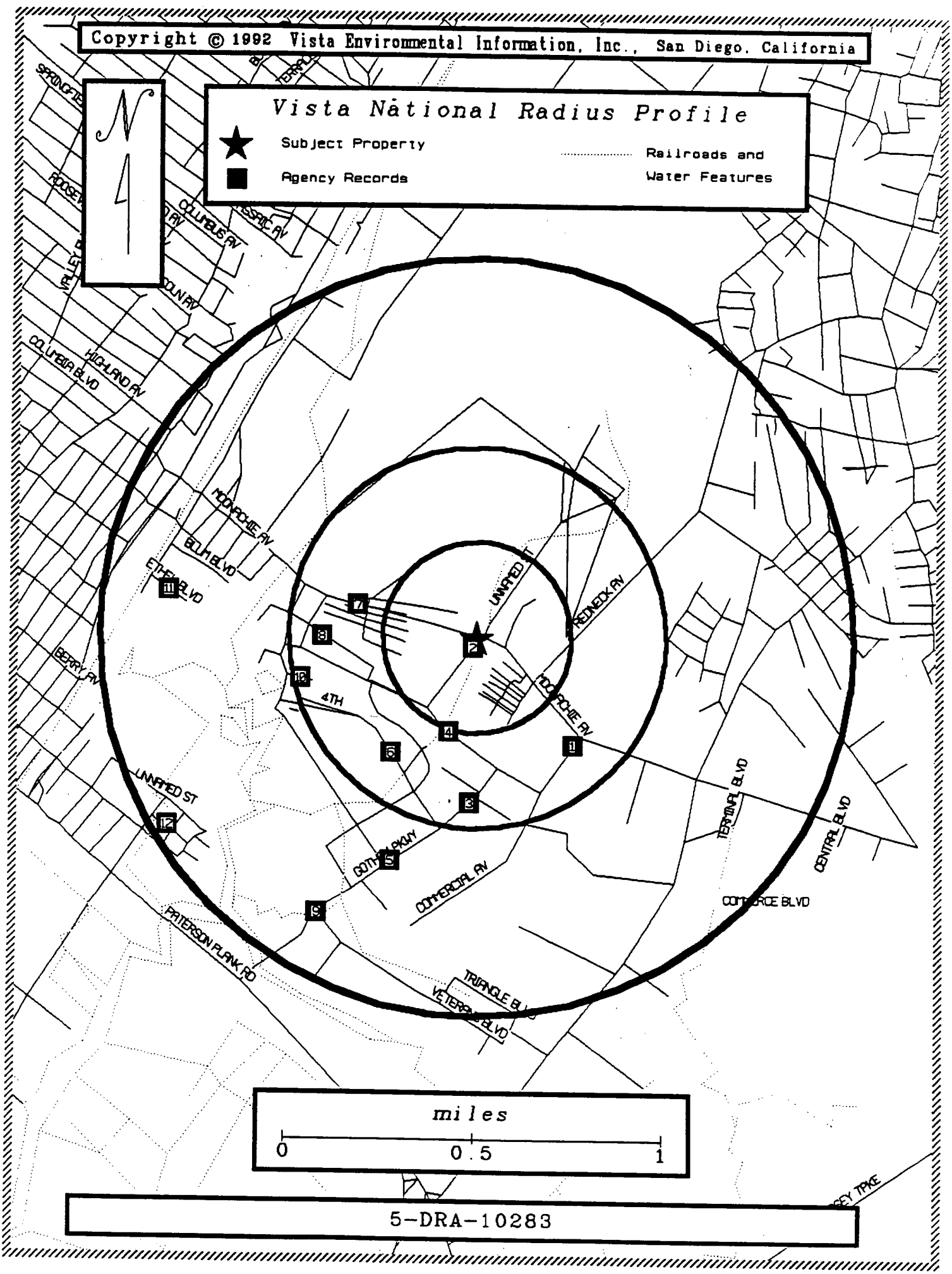
If any of the emergency or spill information is not correct, immediately call the N.J. Dept. of Environmental Protection. (609) 292-7172 (Night) (609) 292-5560 (Day)

APPENDIX E

APPENDIX E

VISTA Database

Copyright © 1992 Vista Environmental Information, Inc., San Diego, California



VISTA NATIONAL RADIUS PROFILE

7/28/92

Report No. 5-DRA-10283

CERCLIS

MAP REF #	EPA ID / AGENCY ID	SITE NAME AND ADDRESS

WITHIN 1/4 TO 1/2 MILE

3 PUR-ALL PAINT PRODUCTS CO INC — CARLSTADT — Distance: .43 mi.
500 SO COMMERCIAL AVENUE — 07072 — Direction: S
NJD001221555 — Vista ID: 342253

Status : NOT ON NPL
Site Ownership : UNKNOWN
Lead Agency : NO DETERMINATION
Site Events :
Event Type : DISCOVERY

8 AEROCLO CORP — MOONACHIE — Distance: .41 mi.
150 ANDERSON AVE — 07074 — Direction: W
NJD046339016 — Vista ID: 7160

Status : NOT ON NPL
Site Ownership : OTHER
Lead Agency : NO DETERMINATION
Site Events :
Event Type : PRELIMINARY ASSESSMENT
Event Type : DISCOVERY

(c) VISTA Environmental Information, Inc., 1992

SPL

MAP REF #	EPA ID / AGENCY ID	SITE NAME AND ADDRESS		
		WITHIN 1/2 TO 1 MILE		
9		L & L WHITE METAL CASTING CORP. 480 GOTHAM PKWY	CARLSTADT 07072	Distance: .83 mi. Direction: SW Vista ID: 247827
		STATE Detailed Site Description Available Call 1-800-877-3824 for Details.		
11		VENTRON/VELSICOL (BERRY'S CREEK) ETHEL BLVD	WOOD RIDGE 07075	Distance: .83 mi. Direction: NW Vista ID: 452412
		STATE Detailed Site Description Available Call 1-800-877-3824 for Details.		

(c) VISTA Environmental Information, Inc., 1992

LUST

MAP REF #	EPA ID / AGENCY ID	SITE NAME AND ADDRESS			
WITHIN 1/4 MILE					
2		ESSELTE PENDAFLEX INC 10 CAESAR PLACE		MOONACHIE	Distance: .03 mi. Direction: -- Vista ID: 142531
	9005300912	Owner Name Owner Address	: ESSELTE PENDAFLEX KE : 10 CAESAR PLACE	, NJ	
WITHIN 1/4 TO 1/2 MILE					
1		RYDER TRUCK RENTAL 125 COMMERCIAL AVE		CARLSTADT 07072	Distance: .38 mi. Direction: SE Vista ID: 2490683
	9103261618	Owner Name Owner Address	: RYDER TRUCK RENTAL : 3600 N W 82ND AVE	, FL	
4		PRESIDENT CONTAINER INCORPORATED 200 WEST COMMERCIAL AVENUE		MOONACHIE	Distance: .26 mi. Direction: SW Vista ID: 499944
	9004201329	Owner Name Owner Address	:	,	
	9110231155	Owner Name Owner Address	: PRESIDENT CONTAINER : 200 W COMMERCIAL	, NJ	
6		SELLERS & JOSEPHSON MANUFACTURING 50 AMOR AVE		CARLSTADT 07072	Distance: .38 mi. Direction: SW Vista ID: 2489851
	9004091329	Owner Name Owner Address	:	,	
7		TETERBORO AIRPORT 90 MOONACHIE AVE		TETERBORO	Distance: .33 mi. Direction: NW Vista ID: 1411620
	9010121412	Owner Name Owner Address	: CHARLES KURTZ TETERB : 399 INDUSTRIAL AVENUE	, NJ	
	9012031436	Owner Name	: TETERBORO AIRPORT		

(c) VISTA Environmental Information, Inc., 1992

LUST

MAP REF #	EPA ID / AGENCY ID	SITE NAME AND ADDRESS			
		WITHIN 1/4 TO 1/2 MILE			
7		TETERBORO AIRPORT 90 MOONACHIE AVE		TETERBORO	Distance: .33 mi. Direction: NW Vista ID: 1411620
		Owner Address	: 90 MOONACHIE AVE	, NJ	
10		PANTONE INC 55 KNICKERBOCKER RD		MOONACHIE	Distance: .48 mi. Direction: SW Vista ID: 318931
	8911201511	Owner Name Owner Address	: :		

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RCRA-TSD

MAP REF #	EPA ID / AGENCY ID	SITE NAME AND ADDRESS		
		WITHIN 1/4 TO 1/2 MILE		
8		AEROCLO CORP 150 ANDERSON AVE Process Codes :Container	MOONACHIE 07074	Distance: .41 mi. Direction: W Vista ID: 7160
		WITHIN 1/2 TO 1 MILE		
5		COOK & DUNN PAINT CORP 700 GOTHAM PKWY Process Codes :Tank treatment Container	CARLSTADT 07072	Distance: .63 mi. Direction: SW Vista ID: 1411436
12		HALCON CATALYST INDUSTRIES 50 BROAD ST Process Codes :Container	CARLSTADT 07072	Distance: .96 mi. Direction: SW Vista ID: 1409256

CUSTOMER USE LIMITATIONS - Customer proceeds at its own risk in choosing to rely upon VISTA services, in whole or part, prior to proceeding with any transaction. VISTA assumes no responsibility for the accuracy of government records, for errors occurring in conversion of data, or for customer's use of VISTA services. VISTA's obligation regarding data is solely limited to providing portions of data existing in government records as of the date of each government update received by VISTA.

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Report No. 5-DRA-10283

Report Preparation Date: 7/28/92

UNMAPPABLE SITES

Unmappable sites are hazardous sites that cannot be geocoded, but can be located by zip code.

In general, a site cannot be geocoded because of inaccurate or missing locational information in the record provided by the agency. For many of these records, VISTA has corrected or added locational information by using U.S. Postal address validation files and proprietary programming that adds locational information from private industry address files. However, many site addresses cannot be corrected using these techniques and those sites cannot be mapped.

Of the sites that cannot be mapped, VISTA identifies those that have complete zip code information. Those sites are then searched by the zip codes that touch on a one mile radius from the subject property and the sites found with those zip codes are included in this section of the report.

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VISTA NATIONAL RADIUS PROFILE

7/28/92

Report No. 5-DRA-10283

UNMAPPABLE SITES

CERCLIS

AGENCY ID	EPA ID	SITE NAME AND ADDRESS		
	NJD980654446	MODERN TRANSPORTATION UNKNOWN	CARLSTADT 07072	Vista ID: 280682
	NJD980769343	PALUZZI BROTHERS 239 CHASE ST	CARLSTADT 07072	Vista ID: 318493
		ROSELAND BORO COMPOST BLK 21 LOT 12	ROSELAND BORO 07068	Vista ID: 1981206
8907281607		YELLOW FREIGHT SYSTEMS INC	CARLSTADT 07072	Vista ID: 2488992
8911271514		JABENA COMPANY INC	CARLSTADT 07072	Vista ID: 2490666
9003081234		CONSOLIDATED FREIGHTWAYS INCORPORATE 100 KERO ROAD	CARLSTADT 07072	Vista ID: 2492250

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For more information call: (619) 450-6100

VISTA
NATIONAL RADIUS PROFILE

Report No. 5-DRA-10283 Report Preparation Date: 8/03/92

Ref/Loan #: (None provided)
Customer: Edward Halasz, Dan Raviv Associates, Inc.
57 East Willow St, Millburn, NJ 07041
Subject
Property: Moonachie Avenue & Caesar Place
Moonachie, NJ 07608

SUMMARY OF FEDERAL RECORDS FOUND

Database & Date	Agency and Type of Records	0 to 1/4 mi	1/4 to 1/2 mi	1/2 to 1 mi	TOTAL
NPL 07/91	US EPA Superfund Sites	0	0	0	0
NPL 07/91	US EPA US EPA Superfund Sites	0	0	0	0
CERCLIS 08/91	US EPA Potential Superfund Sites	0	2	--	2
RCRA-LgGen 03/91	US EPA RCRA Large Quantity Generators	0	--	--	0
RCRA-SmGen 03/91	US EPA RCRA Small and Very Small Quantity Generators	0	--	--	0
RCRA-TSD 03/91	US EPA RCRA Treatment, Storage, and/or Disposal Sites	0	1	2	3
RCRA-Transp 03/91	US EPA RCRA Transporters	0	--	--	0
	FEDERAL RECORDS Sub-total:	0	3	2	5

Note: 1) A dash (-) indicates the list is not searched at that distance.
2) Sites often have a record in more than one database.

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VISTA
NATIONAL RADIUS PROFILE

Report No. 5-DRA-10283 Report Preparation Date: 8/03/92

Ref/Loan #: (None provided)
Customer: Edward Halasz, Dan Raviv Associates, Inc.
57 East Willow St, Millburn, NJ 07041
Subject
Property: Moonachie Avenue & Caesar Place
Moonachie, NJ 07608

SUMMARY OF STATE RECORDS FOUND

Database & Date	Agency and Type of Records	0 to 1/4 mi	1/4 to 1/2 mi	1/2 to 1 mi	TOTAL
SPL 11/91	BUREAU OF REVENUE Site Remediation Program Site Status Report	0	0	2	2
LUST 11/91	DEPT ENVIRONMENTAL PROTECTION LUST Incident List	1	5	--	6
SWLF 10/91	DEPT ENVIRONMENTAL PROTECTION Solid Waste Facility Directory	0	0	--	0
UST's 09/91	DEPT ENVIRONMENTAL PROTECTION Underground Storage Tank Database	0	--	--	0
	STATE RECORDS Sub-total:	1	5	2	8
	TOTAL:	1	8	4	13

Note: 1) A dash (-) indicates the list is not searched at that distance.
2) Sites often have a record in more than one database.

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Dan Raviv Associates, Inc.
Consultants in hydrogeology, water quality, landfill hydrology and ECRA compliance

RESULTS OF LEVEL II SUBSURFACE INVESTIGATION
FALCON JET CORPORATION
TETERBORO AIRPORT
MOONACHIE, NEW JERSEY

DRAI JOB NO. 92C1099

prepared for:

Waters, McPherson & McNeill
100 Lighting Way
Secaucus, New Jersey 07094

Attention: Steven R. Gray, Esq.

prepared by:

Dan Raviv Associates, Inc.
57 East Willow Street
Millburn, New Jersey 07041

September 3, 1992

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RESULTS OF LEVEL II SUBSURFACE INVESTIGATION

FALCON JET CORPORATION
TETERBORO AIRPORT - MOONACHIE, NEW JERSEY

1.0 INTRODUCTION

Dan Raviv Associates, Inc. (DRAI) conducted a Level I Environmental Site Assessment of the Falcon Jet Corporation (Falcon Jet) facilities at Teterboro Airport in Moonachie, Bergen County, New Jersey (Figure 1). DRAI's Level I site assessment report identified nine areas of potential environmental concern (APECs):

APECs 1A and 1B:	Oil-stained floors in Hangars 113 and 114;
APEC 2:	Exterior Drum Storage Area;
APECs 3, 4, 5, 6 and 9:	UGSTs and Oil/Water Separators;
APEC 7:	Staining adjacent to Emergency Generator; and
APEC 8:	Suspected Asbestos Containing Materials (ACMs)

The Level I site assessment provided recommendations for a subsurface investigation for seven of the nine APECs. DRAI recommended a soil boring program to determine the integrity of the UGSTs and oil/water separators, and the collection of soil samples from the drum storage area and adjacent to the emergency generator to determine the presence or absence or contaminated soils in these areas. The purpose of this report is to summarize the findings from the implementation of these recommendations.

It should be noted that DRAI also made recommendations for further work/investigation in the two APECs (APEC 1 and 8). These recommendations are contained in the Level I site assessment. DRAI's recommendation for APEC 1 was to steam clean the soil-stained floors and to properly dispose of the resulting waste water. DRAI's recommendation for APEC 8 was that an asbestos survey be performed by a qualified person or that the asbestos survey prepared by the Port Authority be obtained and reviewed. Should the insulation prove to be asbestos containing material (ACM), then abatement would be required since the material was observed by DRAI to be in friable condition.

2.0 SOIL INVESTIGATION

A soil investigation was conducted by DRAI at seven APECs at the Falcon Jet facility (Figure 2). Field work completed by DRAI in August 1992 consisted of the collection and analysis of surface samples in APECs 2 and 7 to determine whether or not soils have been impacted in each of these areas. Additionally, soil samples were collected from borings located in APECs 3, 4, 5, 6 and 9 and analyzed to evaluate soil quality and determine the integrity of the UGSTs and oil/water separators.

All sampling results were compared to the cleanup levels which were proposed by the New Jersey Department of Environmental Protection and Energy (NJDEPE) on February 3, 1992. Although the NJDEPE proposed cleanup levels have not yet been formally adopted, the NJDEPE is now using these levels as guidelines for whether a site needs remediation. However, it is possible that, either before or after formal adoption of these cleanup levels, the NJDEPE could change the cleanup standards. This of course would change the conclusions as to whether any remediation would be required at this site.

2.1 APEC 2: Exterior Drum Storage Area

APEC 2, located outside of the northwestern corner of Hangar 113, consists of an exterior drum storage area (Figure 2).

2.1.1 Sample Collection

On August 10, 1992, DRAI personnel were on site to collect soil samples from APEC 2. Three surface samples, 2(1) through 2(3), were obtained with a dedicated scoopula from the 0 to 6-inch interval beneath the asphalt and sub-base material. Following collection, the samples were sent to Accutest Laboratories (Accutest) of Dayton, New Jersey, a New Jersey-certified laboratory, for petroleum hydrocarbon (PHC), volatile organic plus 15 compound (VOC+15) and base neutral plus 15 compound (B/N+15) analysis. Sample 2(1) was also analyzed for ethylene glycol. Parameter selection was based on the drum storage of waste oil, solvents and de-icing fluid in this area.

2.1.2 Analytical Results

Analytical results for samples collected in APEC 2 are presented on Tables I through IV and summarized on Figure 3.

In all three soil samples; 2(1), 2(2) and 2(3); elevated concentrations of PHCs were detected at 4,600, 2,000 and 7,700 parts per million (ppm), respectively.

No targeted VOCs or B/Ns were reported above their respective method detection limits. In addition, ethylene glycol was not detected in sample 2(1).

2.1.3 Conclusions and Recommendations

No concentrations above the NJDEPE proposed cleanup levels for residential surface soil were reported in samples collected in APEC 2. The proposed standard for total organics is 10,000 ppm.

The results of laboratory analysis confirm that the soils beneath the drum storage area were not impacted by site operations to the extent that would require remediation under the NJDEPE proposed cleanup levels. Therefore, DRAI recommends no further action in this area.

2.2 APECs 3, 4, 5, 6, and 9: UGSTs and Oil/Water Separators

APECs 3, 4, 5, 6 and 9, located outside of Hangars 113, 114 and 119 (Figure 2), consist of four UGSTS that are connected to oil/water separators (APECs 3, 5, 6 and 9) and one waste-holding UGST (APEC 4).

2.2.1 Sample Collection

On August 6, 7 and 10, 1992, DRAI personnel and drillers from James C. Anderson Associates, Inc., of Mount Laurel, New Jersey (JCA) were on site to conduct split-spoon sampling of the soils surrounding APECs 3, 4, 5, 6 and 9. Four soil borings were completed around the perimeter of each UGST and oil/water separator in order to determine soil quality. The selection of boring locations was based on the construction details of each UGST and oil/water separator. Soil boring reports are attached as Appendix A.

A continuous split-spoon boring was driven until the water table was encountered at each of the UGSTs. Once the depth to water was determined in each area, soil borings were advanced, with an auger, to the 1-foot interval above the water table. A split-spoon was then advanced to a depth that intersected the water table. Samples were collected from the 0 to 6-inch interval above the water table and sent to Accutest for PHC analysis. Sample results were requested within three days. Samples in which a PHC concentration greater than 1,000 ppm were to be analyzed for VOCs+15, B/Ns+15 and priority pollutant metals (PP-metals), in accordance with current NJDEPE protocol.

Based on the PHC sample results, only sample 4(4) required analysis for the additional parameters.

2.2.2 Analytical Results

Analytical results for samples collected in APECs 3, 4, 5, 6 and 9 are presented on Tables I through IV and summarized on Figures 3 through 7.

Sample 4(4) was the only sample in which PHCs exceeded 1,000 ppm, at a concentration of 1,800 ppm. Therefore, this was the only sample to be analyzed for VOCs+15, B/Ns+15 and PP-metals. Sample 4(4) did not contain any VOCs or B/Ns. In addition, no PP-metals exceeded NJDEPE proposed cleanup standards for residential surface soil.

2.2.3 Conclusions and Recommendations

DRAI proposes no additional sampling or remediation in APECs 3, 4, 5, 6 and 9. However, in accordance with the "Regulations Implementing the New Jersey Underground Storage of Hazardous Substance Act", all UGSTs would have to be retrofitted with cathodic protection to prevent corrosion and a monitoring system to detect leakage or removed by December 22, 1993. A cost estimate for

both of these options is attached as Appendix B.

2.3 APEC 7: Staining Adjacent to Emergency Generator

APEC 7, located north of Hangar 114 (Figure 2), consists of surface staining of soils adjacent to the emergency generator.

2.3.1 Sample Collection

On August 21, 1992, DRAI personnel were on site to collect a sample from the soils surrounding the emergency generator. A surface sample, 7(1), was obtained with a dedicated scoopula and sent to Accutest for PHC analysis.

2.3.2 Analytical Results

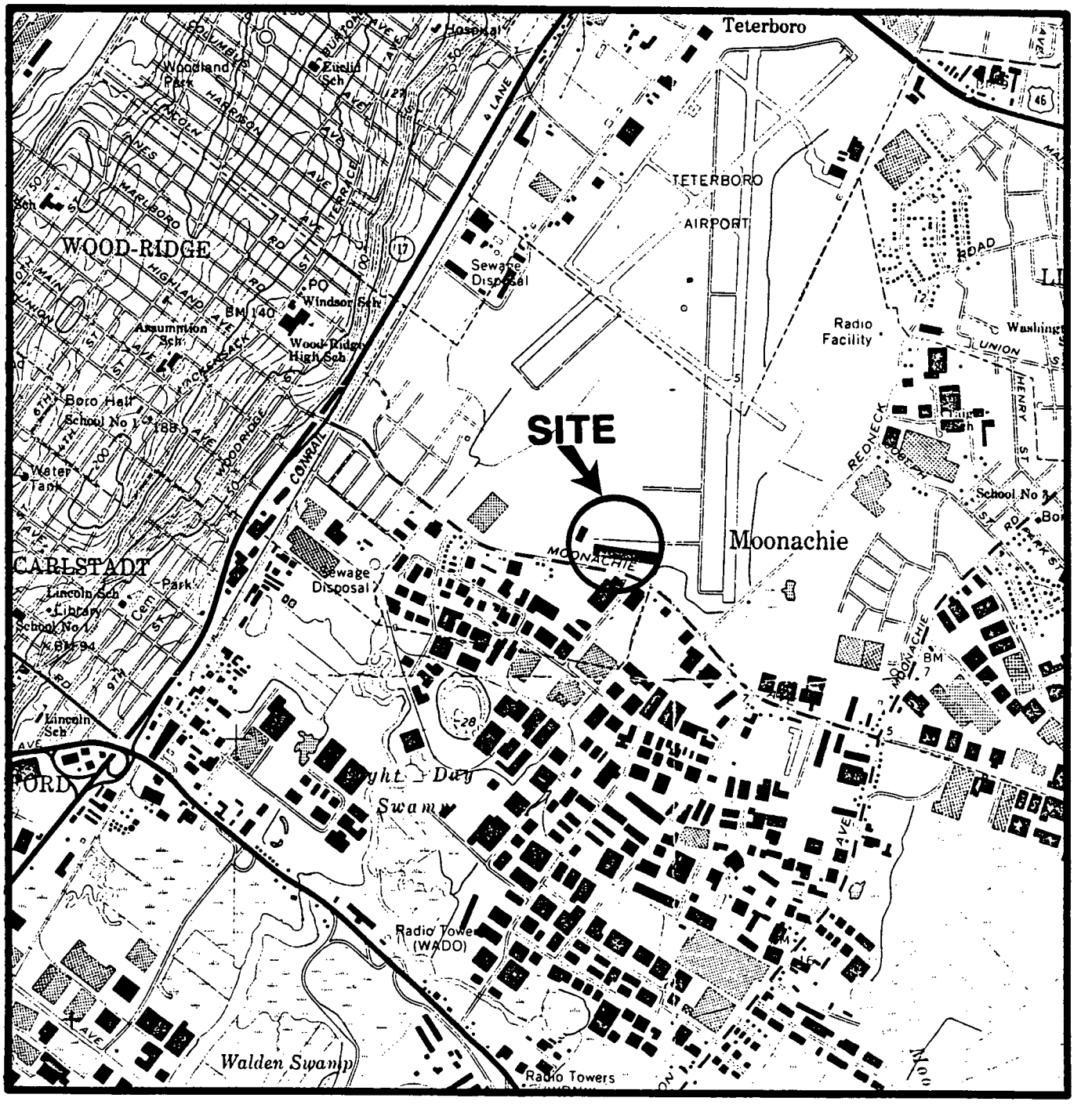
Analytical results for samples collected in APEC 7 are presented on Table I and summarized on Figure 4. In sample 7(1), a concentration of 110 ppm of PHCs was detected.

2.3.3 Conclusions and Recommendations

Laboratory analysis did not detect any PHC concentrations above the NJDEPE proposed cleanup level of 10,000 ppm.

Therefore, DRAI proposes no further action for the soils surrounding the emergency generator.

FIGURES



WEEHAWKEN, N.J.-N.Y. QUADRANGLE
7.5 MINUTE SERIES
1981

0 2000 FT.

APPROXIMATE SCALE

N

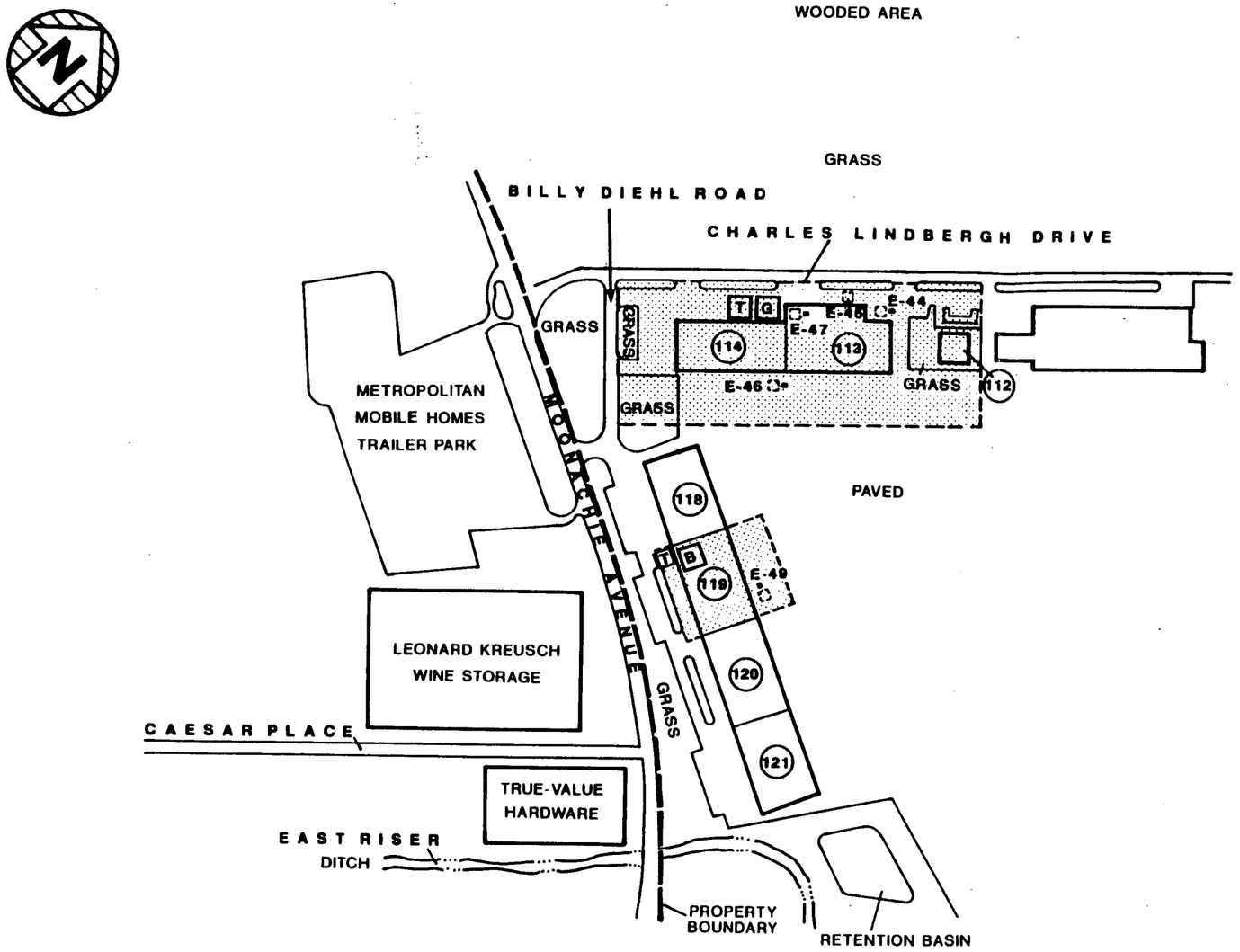
Dan Raviv Associates, Inc.
57 E. Willow Street Millburn, NJ 07041

SITE LOCATION

FALCON JET CORP. - TETERBORO AIRPORT
MOONACHIE, NEW JERSEY

PREPARED BY: EH/ODL	DATE: JULY 1992
JOB NO.: 92C1099	FIGURE: 1

141741



EXPLANATION

(112) BUILDING DESIGNATION

FALCON JET LEASEHOLD

[B] BOILER ROOM

[T] TRANSFORMER

[G] EMERGENCY GENERATOR

E-47 UNDERGROUND STORAGE TANK (UGST) AND OIL/WATER SEPARATOR LOCATION AND DESIGNATION

APECS

1A = OIL STAINED FLOOR IN BUILDING 113

1B = OIL STAINED FLOOR IN BUILDING 114

2 = EXTERIOR DRUM STORAGE AREA

3 = UGST E-44, 550-GALLONS, AND OIL/WATER SEPARATOR

4 = UGST E-45, 550-GALLONS

5 = UGST E-47, 280-GALLONS, AND OIL/WATER SEPARATOR

6 = UGST E-46, 280-GALLONS, AND OIL/WATER SEPARATOR

7 = STAINING ADJACENT TO EMERGENCY GENERATOR

8 = SUSPECTED ASBESTOS CONTAINING MATERIALS IN BOILER ROOM OF BUILDING 119

9 = UGST E-49, 250-GALLONS, AND OIL/WATER SEPARATOR

0 30 FT.

APPROXIMATE SCALE

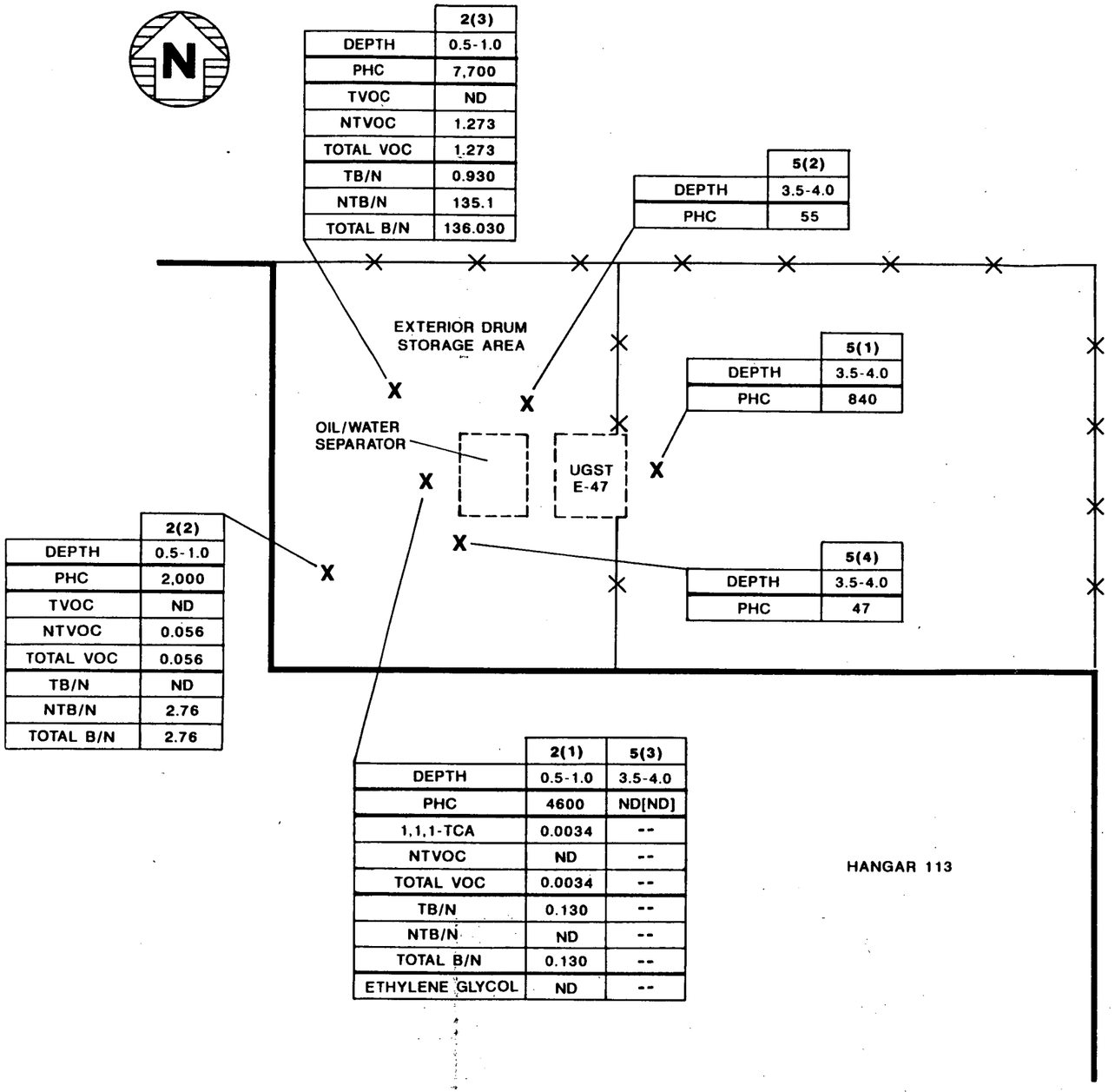
Dan Raviv Associates, Inc.
57 E. Willow Street Millburn, NJ 07041

SITE MAP WITH AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

FALCON JET CORP. - TETERBORO AIRPORT
MOONACHIE, NEW JERSEY

PREPARED BY: KRG/MV	DATE: AUGUST 1992
JOB NO.: 92C1099	FIGURE: 2

4156
R.S. KNAPP CO.



EXPLANATION

FENCE

UGST = UNDERGROUND STORAGE TANK

X SAMPLE LOCATION

	5(1)
DEPTH	3.5-4.0
PHC	840

5(1) — SAMPLE DESIGNATION

DEPTH 3.5-4.0 — DEPTH INTERVAL (FEET BELOW SURFACE)

PHC 840 — CONCENTRATION (ppm)

PHC — PARAMETER

PHC = PETROLEUM HYDROCARBONS

1,1,1-TCA = 1,1,1-TRICHLOROETHANE

TVOC = TARGETED VOLATILE ORGANIC COMPOUNDS

NTVOC = NON-TARGETED VOLATILE ORGANIC COMPOUNDS

TB/N = TARGETED BASE NEUTRAL COMPOUNDS

NTB/N = NON-TARGETED BASE NEUTRAL COMPOUNDS

ND = NOT DETECTED

-- = ANALYSIS NOT PERFORMED

[ ] = FIELD DUPLICATE

ppm = PARTS PER MILLION

NOTE : APEC 2 = EXTERIOR DRUM STORAGE AREA.

APEC 5 = UGST E-47, AND OIL/WATER SEPARATOR.

0 10 FT.

APPROXIMATE SCALE

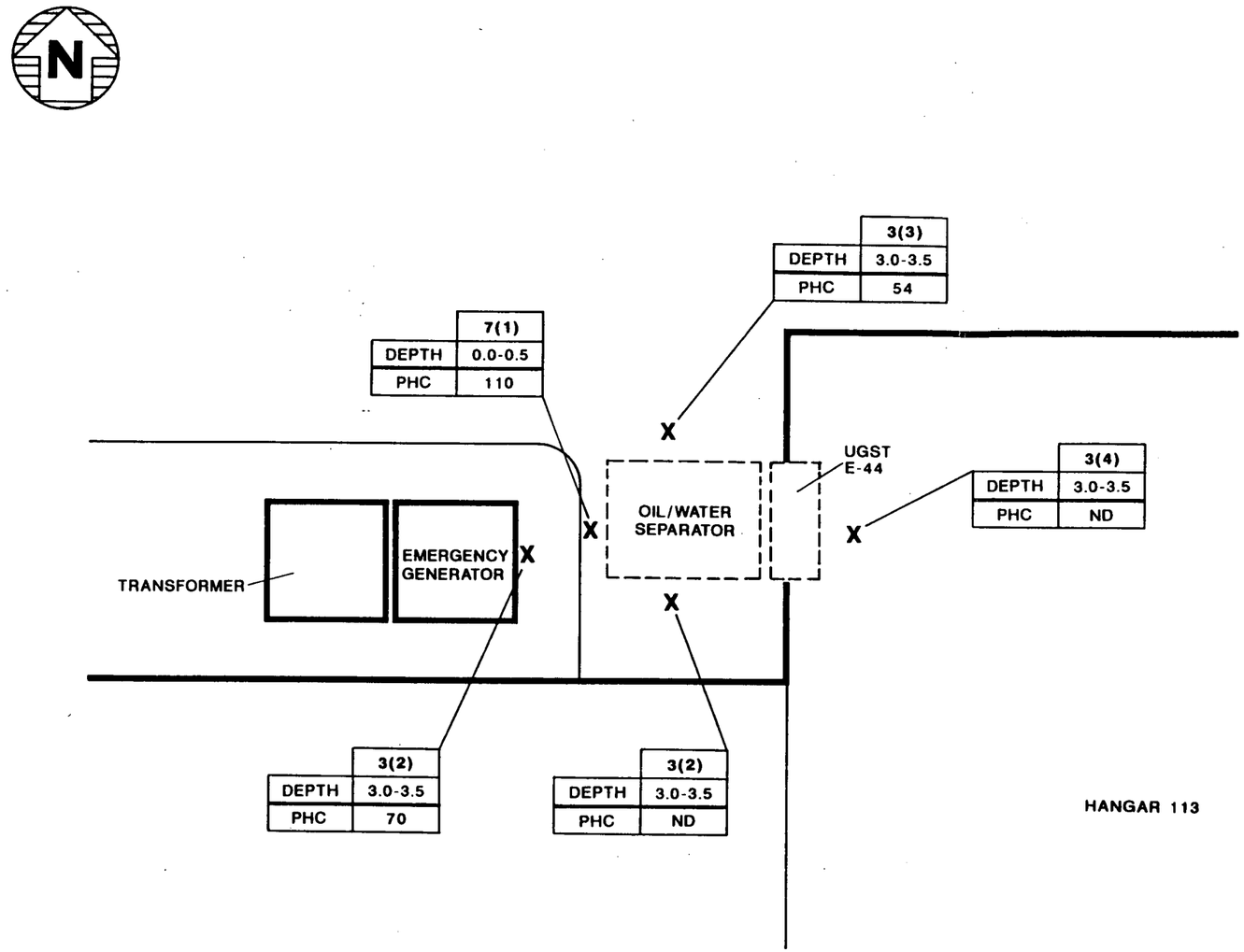
Dan Raviv Associates, Inc.
57 E. Willow Street Millburn, NJ 07041

RESULTS OF SOIL ANALYSIS
APECs 2 AND 5

FALCON JET CORP. - MOONACHIE, NEW JERSEY

PREPARED BY: MK/ODL	DATE: AUGUST 1992
JOB NO.: 92C1099	FIGURE: 3

1099-B0



EXPLANATION

UGST = UNDERGROUND STORAGE TANK

X = SAMPLE LOCATION

	3(4) — SAMPLE DESIGNATION
DEPTH	3.0-3.5 — DEPTH INTERVAL (FEET BELOW SURFACE)
PHC	ND — CONCENTRATION (ppm) — PARAMETER

PHC = PETROLEUM HYDROCARBONS

ND = NOT DETECTED

ppm = PARTS PER MILLION

NOTE: APEC 3 = UGST E-44 AND OIL/WATER SEPARATOR.

APEC 7 = STAINING ADJACENT TO EMERGENCY GENERATOR.

0 15 FT.

APPROXIMATE SCALE

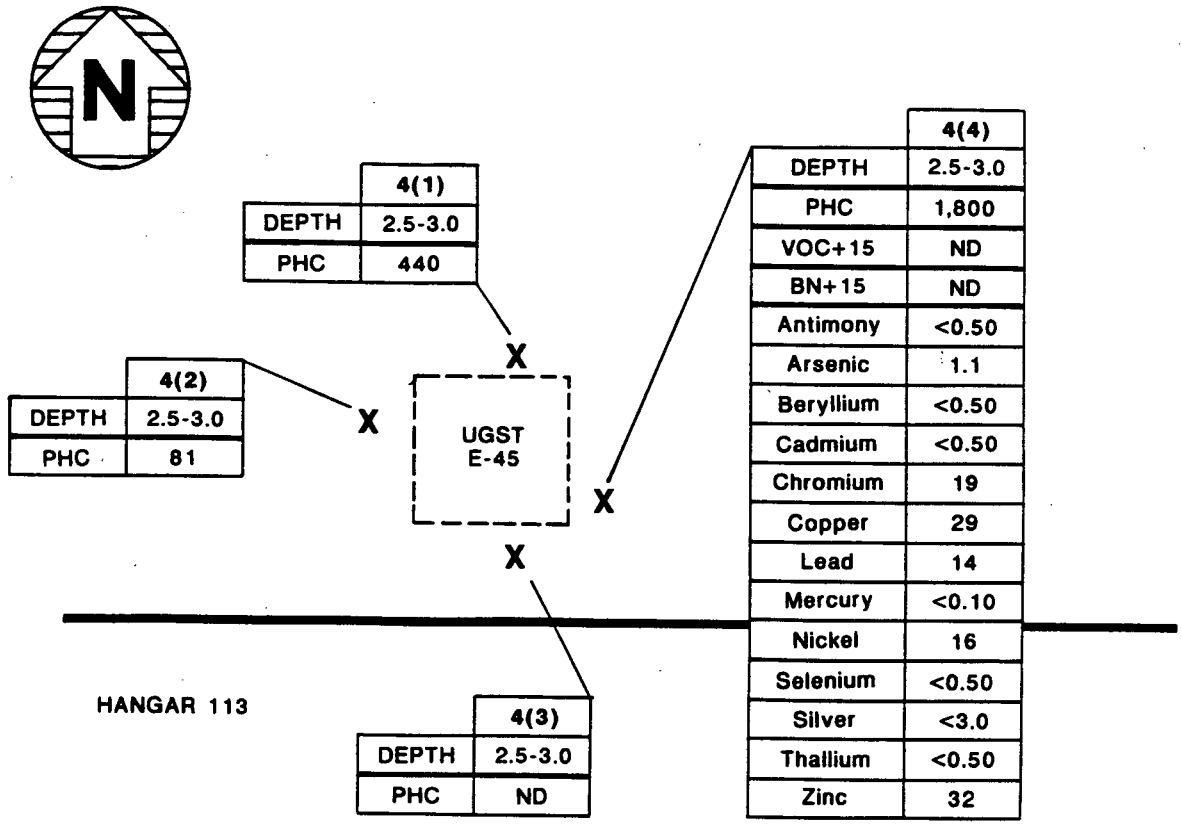
Dan Raviv Associates, Inc.
57 E. Willow Street Millburn, NJ 07041

RESULTS OF SOIL ANALYSIS
APECs 3 AND 7

FALCON JET CORP. - MOONACHIE, NEW JERSEY

PREPARED BY: MK/ODL	DATE: AUGUST 1992
JOB NO.: 92C1099	FIGURE: 4

1099-A1



EXPLANATION

UGST = UNDERGROUND STORAGE TANK

X SAMPLE LOCATION

	4(2) — SAMPLE DESIGNATION
DEPTH	2.5-3.0 — DEPTH INTERVAL (FEET BELOW SURFACE)
PHC	81 — CONCENTRATION (ppm)

PARAMETER

PHC = PETROLEUM HYDROCARBONS

VOC+15 = VOLATILE ORGANIC COMPOUNDS PLUS 15

BN+15 = BASE NEUTRAL COMPOUNDS PLUS 15

ND = NOT DETECTED

ppm = PARTS PER MILLION

0 10 FT.

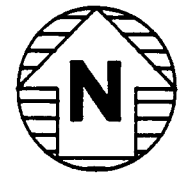
APPROXIMATE SCALE

Dan Raviv Associates, Inc.
57 E. Willow Street Millburn, NJ 07041

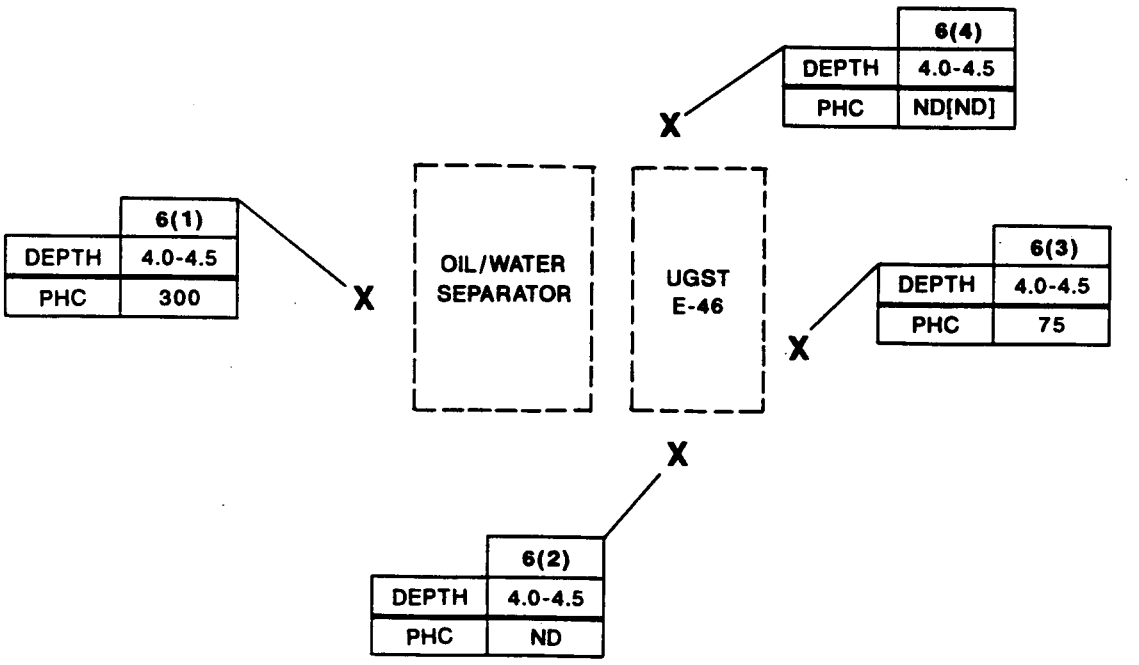
RESULTS OF SOIL ANALYSIS
APEC 4

FALCON JET CORP. - MOONACHIE, NEW JERSEY

PREPARED BY: MK/ODL	DATE: AUGUST 1992
JOB NO.: 92C1099	FIGURE: 5



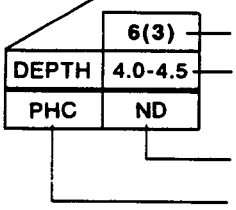
HANGAR 114



EXPLANATION

UGST = UNDERGROUND STORAGE TANK

X SAMPLE LOCATION



6(3) — SAMPLE DESIGNATION

DEPTH 4.0-4.5 — DEPTH INTERVAL (FEET BELOW SURFACE)

ND — CONCENTRATION (ppm)

PHC — PARAMETER

PHC = PETROLEUM HYDROCARBONS

ND = NOT DETECTED

[ ] = FIELD DUPLICATE

ppm = PARTS PER MILLION

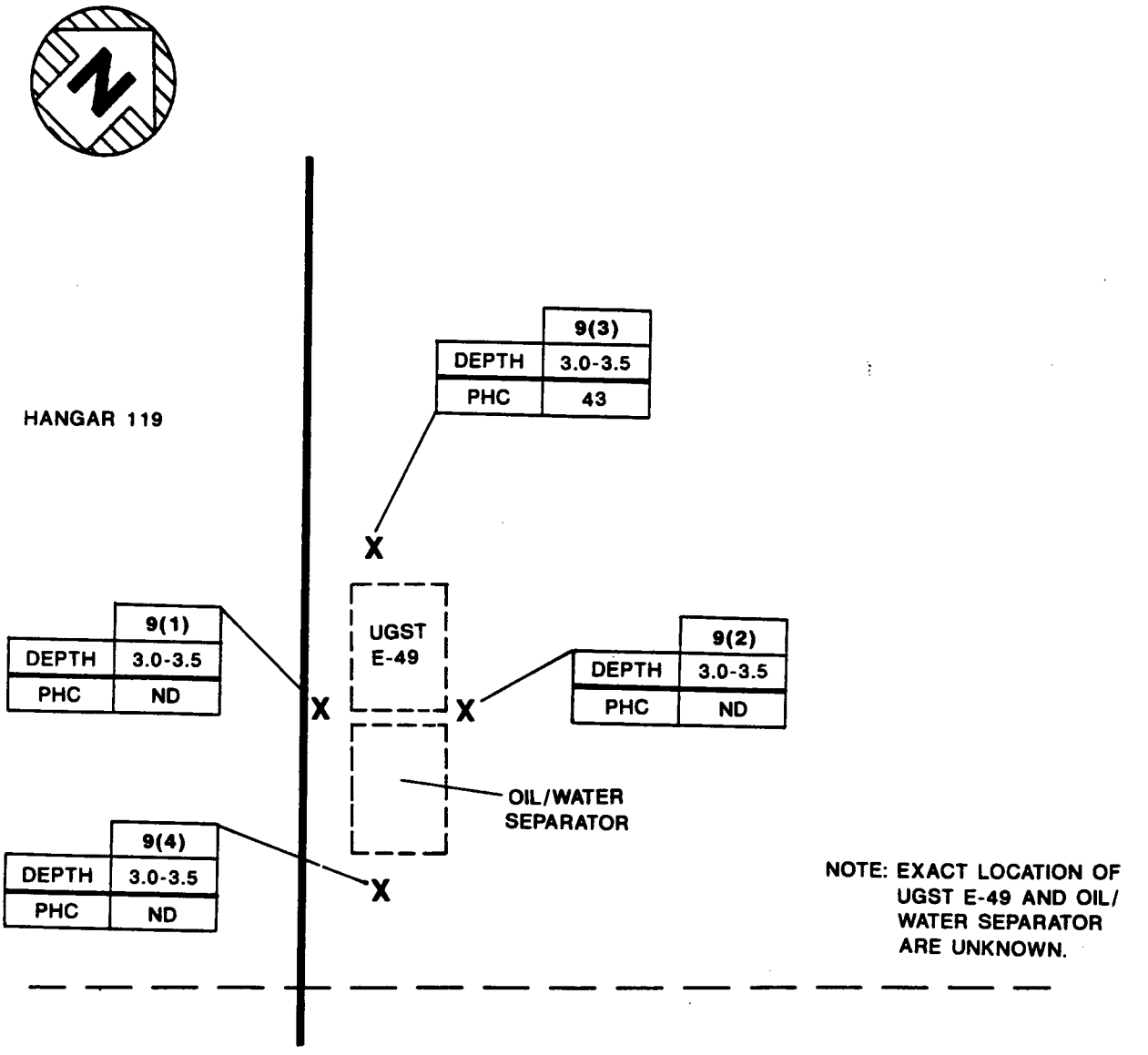
Dan Raviv Associates, Inc.
57 E. Willow Street Millburn, NJ 07041

RESULTS OF SOIL ANALYSIS
APEC 6

FALCON JET CORP. - MOONACHIE, NEW JERSEY

PREPARED BY: MK/ODL	DATE: AUGUST 1992
JOB NO.: 92C1099	FIGURE: 6

1099-D0



EXPLANATION

UGST = UNDERGROUND STORAGE TANK

X SAMPLE LOCATION

9(1)	SAMPLE DESIGNATION
DEPTH 3.0-3.5	DEPTH INTERVAL (FEET BELOW SURFACE)
PHC ND	CONCENTRATION (ppm) / PARAMETER

PHC = PETROLEUM HYDROCARBONS

ND = NOT DETECTED

ppm = PARTS PER MILLION

Dan Raviv Associates, Inc.
57 E. Willow Street Millburn, NJ 07041

RESULTS OF SOIL ANALYSIS
APEC 9

FALCON JET CORP. - MOONACHIE, NEW JERSEY

PREPARED BY: MK/ODL	DATE: AUGUST 1992
JOB NO.: 92C1099	FIGURE: 7

TABLES

Table I
Summary of PHCs in Soil

DRAI Sample No.	Depth (ft. below surface)	Laboratory Sample No.	Concentration (ppm)
2(1)	0.5–1.0	E221239	4600
2(2)	0.5–1.0	E221240	2000
2(3)	0.5–1.0	E221241	7700
3(1)	3.0–3.5	E221235	ND
3(1)	3.0–3.5	E221236	70
3(1)	3.0–3.5	E221237	54
3(1)	3.0–3.5	E221238	ND
4(1)	2.5–3.0	E221028	440
4(2)	2.5–3.0	E221029	81
4(3)	2.5–3.0	E221030	ND
4(4)	2.5–3.0	E221031	1800
5(1)	3.5–4.0	E221230	840
5(2)	3.5–4.0	E221231	55
5(3)A	3.5–4.0	E221232	ND
5(3)B	3.5–4.0	E221233	ND
5(4)	3.5–4.0	E221234	47
6(1)	4.0–4.5	E221023	300
6(2)	4.0–4.5	E221024	75
6(3)	4.0–4.5	E221025	ND
6(4)A	4.0–4.5	E221026	ND
6(4)B	4.0–4.5	E221027	ND
7(1)	0.0–0.5	E222187	110
9(1)	3.0–3.5	E221032	ND
9(2)	3.0–3.5	E221033	ND
9(3)	3.0–3.5	E221034	43
9(4)	3.0–3.5	E221035	ND

ND = Not detected.
Shaded samples were also analyzed for VOCs+15 and B/Ns+15.

DRAI Job No. 92C1099
D2406/SUMPHCSO.WK1

Table II
Summary of Volatile Organic Compounds in Soil

DRAI Sample No.:	2(1)		2(2)		2(3)		4(4)	
Depth (ft below surface):	0.5–1.0		0.5–1.0		0.5–1.0		2.5–3.0	
Lab Sample No.:	E221239R		E221240R		E221241R		E221031R	
Date Sampled:	8/10/92		8/10/92		8/10/92		8/6/92	
Laboratory:	Accutest		Accutest		Accutest		Accutest	
Targeted VOCs (ppm)								
Acrolein	ND		ND		ND		ND	
Acrylonitrile	ND		ND		ND		ND	
Benzene	ND		ND		ND		ND	
Bromoform	ND		ND		ND		ND	
Bromodichloromethane	ND		ND		ND		ND	
Bromomethane	ND		ND		ND		ND	
Carbon Tetrachloride	ND		ND		ND		ND	
Chlorobenzene	ND		ND		ND		ND	
Chloroethane	ND		ND		ND		ND	
2–Chloroethyl Vinyl Ether	ND		ND		ND		ND	
Chloroform	ND		ND		ND		ND	
Chloromethane	ND		ND		ND		ND	
cis–1,3–Dichloropropene	ND		ND		ND		ND	
Dibromochloromethane	ND		ND		ND		ND	
1,2–Dichlorobenzene	ND		ND		ND		ND	
1,3–Dichlorobenzene	ND		ND		ND		ND	
1,4–Dichlorobenzene	ND		ND		ND		ND	
1,1–Dichloroethane	ND		ND		ND		ND	
1,2–Dichloroethane	ND		ND		ND		ND	
1,1–Dichloroethylene	ND		ND		ND		ND	
trans–1,2–Dichloroethylene	ND		ND		ND		ND	
trans–1,3–Dichloropropene	ND		ND		ND		ND	
1,2–Dichloropropane	ND		ND		ND		ND	
Ethylbenzene	ND		ND		ND		ND	
Methylene Chloride	ND		ND		ND		ND	
1,1,2,2–Tetrachloroethane	ND		ND		ND		ND	
Tetrachloroethylene	ND		ND		ND		ND	
Toluene	ND		ND		ND		ND	
1,1,1–Trichloroethane	0.0034	J	ND		ND		ND	
1,1,2–Trichloroethane	ND		ND		ND		ND	
Trichloroethylene	ND		ND		ND		ND	
Trichlorofluoromethane	ND		ND		ND		ND	
Vinyl Chloride	ND		ND		ND		ND	
m–Xylene	ND		ND		ND		ND	
p,o–Xylene	ND		ND		ND		ND	
TOTAL TARGETED VOCs (ppm):	**0.0034**	**J**	**ND**		**ND**		**ND**	
TOTAL NON–TARGETED VOCs(ppm):	**ND**		**0.056**		**1.273**		**ND**	
TOTAL TARGETED AND NON–TARGETED VOCs (ppm):	**0.0034**	**J**	**0.056**		**1.273**		**ND**	

ND = not detected.

B = compound detected in method blank and excluded from total.

J = estimated concentration detected below the Method Detection Limit.

DRAI Job No. 92C1099

D2046/T-VOCSO.WK1

Table III
Summary of Base Neutrals in Soil

DRAI Sample No.:	2(1)	2(2)	2(3)	4(4)
Depth (ft below surface):	0.5–1.0	0.5–1.0	0.5–1.0	2.5–3.0
Lab Sample No.:	E221239R	E221240R	E221241R	E221031R
Date Sampled:	8/10/92	8/10/92	8/10/92	8/6/92
Laboratory:	Accutest	Accutest	Accutest	Accutest

Targeted BNs (ppm)

Acenaphthene	ND		ND		ND		ND	
Acenaphthylene	ND		ND		ND		ND	
Anthracene	ND		ND		ND		ND	
Benzidene	ND		ND		ND		ND	
Benzo (a) anthracene	ND		ND		ND		ND	
Benzo (a) pyrene	ND		ND		ND		ND	
Benzo (g,h,i) perylene	ND		ND		ND		ND	
Benzo (b) fluoranthene	ND		ND		ND		ND	
Benzo (k) fluoranthene	ND		ND		ND		ND	
bis (2–chloroethoxy) methane	ND		ND		ND		ND	
bis (2–chloroethyl) ether	ND		ND		ND		ND	
bis (2–chloroisopropyl) ether	ND		ND		ND		ND	
bis (2–ethylhexyl) phthalate	0.130	J	ND		0.730	J	ND	
4–Bromophenyl phenyl ether	ND		ND		ND		ND	
Butylbenzyl phthalate	ND		ND		ND		ND	
2–Chloronaphthalene	ND		ND		ND		ND	
4–Chlorophenyl phenyl ether	ND		ND		ND		ND	
Chrysene	ND		ND		ND		ND	
Dibenzo (a,h) anthracene	ND		ND		ND		ND	
1,2–Dichlorobenzene	ND		ND		ND		ND	
1,3–Dichlorobenzene	ND		ND		ND		ND	
1,4–Dichlorobenzene	ND		ND		ND		ND	
3,3–Dichlorobenzidene	ND		ND		ND		ND	
Diethyl phthalate	ND		ND		ND		ND	
Dimethyl phthalate	ND		ND		ND		ND	
Di–n–Butyl phthalate	ND		ND		ND		ND	
2,4–Dinitrotoluene	ND		ND		ND		ND	
2,6–Dinitrotoluene	ND		ND		ND		ND	
Di–n–Octyl phthalate	ND		ND		ND		ND	
1,2–Diphenylhydrazine	ND		ND		ND		ND	
Fluoranthene	ND		ND		ND		ND	
Fluorene	ND		ND		ND		ND	
Hexachlorobenzene	ND		ND		ND		ND	
Hexachlorobutadiene	ND		ND		ND		ND	
Hexachlorocylopentadiene	ND		ND		ND		ND	
Hexachloroethane	ND		ND		ND		ND	
Indeno (1,2,3–cd) pyrene	ND		ND		ND		ND	
Isophorone	ND		ND		ND		ND	
Naphthalene	ND		ND		ND		ND	
Nitrobenzene	ND		ND		ND		ND	
N–Nitrosodimethylamine	ND		ND		ND		ND	
N–Nitrosodi–n–Propylamine	ND		ND		ND		ND	
N–Nitrosodiphenylamine	ND		ND		ND		ND	
Phenanthrene	ND		ND		ND		ND	
Pyrene	ND		ND		0.200	J	ND	
1,2,4–Trichlorobenzene	ND		ND		ND		ND	
TOTAL TARGETED BNs (ppm):	**0.130**	**J**	**ND**		**0.930**	**J**	**ND**	
TOTAL NON–TARGETED BNs(ppm):	**11.71**		**2.76**		**135.1**		**ND**	
TOTAL TARGETED AND NON–TARGETED BNs (ppm):	**11.84**		**2.76**		**136.03**		**ND**	

ND = not detected.
B = compound detected in method blank.
J = estimated concentration detected below the Method Detection Limit.

DRAI Job No. 92C1099
D2406/T_BNSO.WK1

Table IV
Summary of Metals and Miscellaneous Paramters in Soil

DRAI Sample No.:	2(1)		4(4)	
Depth (ft below surface):	0.5–1.0		2.5–3.0	
Lab Sample No.:	E221239R		E221031R	
Date Sampled:	8/10/92		8/6/92	
Laboratory:	Accutest		Accutest	
Metals (ppm)				
Antimony	NR		<0.50	
Arsenic	NR		1.1	
Beryllium	NR		<0.50	
Cadmium	NR		<0.50	
Chromium	NR		19	
Copper	NR		29	
Lead	NR		14	
Mercury	NR		<0.10	
Nickel	NR		16	
Selenium	NR		<0.50	
Silver	NR		<3.0	
Thallium	NR		<0.50	
Zinc	NR		32	
Miscellaneous Parameters				
Ethylene Glycol (ppm)	ND		NR	

ND = not detected.

NR = not requested.

B = compound detected in method blank and excluded from total.

J = estimated concentration detected below the Method Detection Limit.

DRAI Job No. 92C1099

D2046/T_METSO.WK1

APPENDIX A

Dan Raviv Associates, Inc.
57 E. Willow Street Millburn, NJ 07041

SOIL BORING REPORT

BORING NO. 2(1)

SHEET NO. 1 OF 1

PROJECT NAME: FALCON JET
PROJECT NO.: 92C1099
LOCATION: MOONACHIE NEW JERSEY
CONTRACTOR: J.C. ANDERSON

START DATE: 8-10-92
FINISH DATE: 8-10-92
DRILLER: WELLES REEVES
DRAI GEOL.: MATT KALMAN

SAMPLER TYPE: SPLIT SPOON
INSIDE DIAMETER (IN.): —
HAMMER WEIGHT (LB): 140
HAMMER FALL (IN.): 36

RIG TYPE: FAILING F-2
BIT TYPE: AUGER
DEPTH TO WATER: —
TOTAL DEPTH DRILLED: 1.0

DEPTH FROM GRADE (FEET)	SAMPLER BLOWS PER 6 IN.	SAMPLE DESIGNATION	RECOVERY (INCHES)	HNu (ppm)	LITHOLOGIC CLASSIFICATION AND COMMENTS
	H				0.0-0.5' - ASPHALT AND TOP ROCK
0.5	A			1	0.5-1.0 - BROWN SILTY FINE SAND WITH COMMON F-C GRAVEL (STRONG ODOR) (FILL).
	N				
	A D	2(1)/0.5-1.0			
1.0	U				BOTTOM OF BORING @ 1.0' BGS
	C				
	E				
	2				

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SOIL BORING REPORT

BORING NO. 2(2)

SHEET NO. 1 OF 1

PROJECT NAME: FALCON JET
PROJECT NO.: 92C1099

LOCATION: MOONACHIE NEW JERSEY
CONTRACTOR: J.C ANDERSON

START DATE: 8-[illegible]
FINISH DATE: 8-[illegible]
DRILLER: WELLES REEVES
DRAI GEOL.: MATT KALMAN

SAMPLER TYPE: SPLIT SPOON
INSIDE DIAMETER (IN.): —
HAMMER WEIGHT (LB): 140
HAMMER FALL (IN.): 36

RIG TYPE: FAILING F-2
BIT TYPE: AUGER
DEPTH TO WATER: —
TOTAL DEPTH DRILLED: [illegible]

DEPTH FROM GRADE (FEET)	SAMPLER BLOWS PER 6 IN.	SAMPLE DESIGNATION	RECOVERY (INCHES)	HNu (ppm)	LITHOLOGIC CLASSIFICATION AND COMMENTS
	A				0-0.5 - ASPHALT AND TRAP ROCK
0.5	A N			<1	0.5-1.0 - BROWN CLAYEY SILT W/ RARE F-M SAND AND M-C GRAVEL (MILD ODOR).
1.0	U D	2(2)/0.5-1.0			
	C				BOTTOM OF BORING @ 1.0' BGS
	E				
	R				

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SOIL BORING REPORT

BORING NO. 2(S)

SHEET NO. 1 OF 1

PROJECT NAME: FALCON JET
PROJECT NO.: 92C1099

LOCATION: MOONACHIE NEW JERSEY
CONTRACTOR: J.C. ANDERSON

START DATE: 5-
FINISH DATE: 5-10-9
DRILLER: WELLES REEVES
DRAI GEOL.: MATT KALMAN

SAMPLER TYPE: SPLIT SPOON
INSIDE DIAMETER (IN.):
HAMMER WEIGHT (LB): 140
HAMMER FALL (IN.): 36

RIG TYPE: FAILING F-2
BIT TYPE: AUGER
DEPTH TO WATER:
TOTAL DEPTH DRILLED: 1.0

DEPTH FROM GRADE (FEET)	SAMPLER BLOWS PER 6 IN.	SAMPLE DESIGNATION	RECOVERY (INCHES)	HNu (ppm)	LITHOLOGIC CLASSIFICATION AND COMMENTS
	M				0.-0.5 - ASPHALT AND TRAP ROCK
0.5	A				0.5-1.0 - BROWN F-M SAND W/ SILT AND
	N			2	COMMON M-C GRAVEL ; CLAY ; SLIGHT
	D	2(S) /0.5-1.0			ODOR (FILL)
1.0	G				
	E				BOTTOM OF SAMPLE @ 1.0'
	R				

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SOIL BORING REPORT

BORING NO. [illegible]

SHEET NO. 1 OF 1

PROJECT NAME: FALCON JET
PROJECT NO.: 92C1099

LOCATION: MOONACHIE NEW JERSEY
CONTRACTOR: J.C. ANDERSON

START DATE: [illegible]
FINISH DATE: [illegible]
DRILLER: WELLES REEVES
DRAI GEOL.: MATT KALMAN

SAMPLER TYPE: SPLIT SPOON
INSIDE DIAMETER (IN.): 2
HAMMER WEIGHT (LB): 140
HAMMER FALL (IN.): 36

RIG TYPE: FAILING F-2
BIT TYPE: AUGER
DEPTH TO WATER: [illegible]
TOTAL DEPTH DRILLED: [illegible]

DEPTH FROM GRADE (FEET)	SAMPLER BLOWS PER 6 IN.	SAMPLE DESIGNATION	RECOVERY (INCHES)	HNu (ppm)	LITHOLOGIC CLASSIFICATION AND COMMENTS
	[illegible]				0-1.0' ASPHALT AND TRACE [illegible]
1	[illegible]				
	17				1.0-1.8 - RED/BROWN F-M SAND WITH MUCH F-M GRAVEL AND CONCRETE THROUGHOUT (DRY)
2	8		16	ND	
	11				1.8-2.3' - BROWN-ORANGE SILTY FINE SAND W/ RARE GREEN/GRAY CLAY (FILL)
3	16				
	7	3(.)/30-35			3.0-5.0 - ORANGE-BROWN SILTY FINE SAND W/ TRACE GREEN-GRAY CLAY & BOTTOM SATURATED
4	8		24	ND	
	7				
5	5				
					BOTTOM OF BORING @ 5.0' BGS

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SOIL BORING REPORT

BORING NO. 3(2)

SHEET NO. 1 OF 1

PROJECT NAME: FALCON JET
PROJECT NO.: 92C1099

LOCATION: MOONACHIE NEW JERSEY
CONTRACTOR: J.C. ANDERSON

START DATE:
FINISH DATE: [illegible]
DRILLER: WELLES REEVES
DRAI GEOL.: MATT KALMAN

SAMPLER TYPE: SPLIT SPOON
INSIDE DIAMETER (IN.): 3
HAMMER WEIGHT (LB): 140
HAMMER FALL (IN.): 36

RIG TYPE: FAILING F-2
BIT TYPE: AUGER
DEPTH TO WATER: [illegible]
TOTAL DEPTH DRILLED: 3.5

DEPTH FROM GRADE (FEET)	SAMPLER BLOWS PER 6 IN.	SAMPLE DESIGNATION	RECOVERY (INCHES)	HNu (ppm)	LITHOLOGIC CLASSIFICATION AND COMMENTS
	A				0-1.0' ASPHALT AND TRAP ROCK
1	G				
	C				
	R				
2	13				1.5-2.7- BROWN SILTY FINE SAND WITH COMMON GRAVEL (SATURATED @ BOTTOM)
	13		15	ND	
3	11				
	10	3(2)/3.0-3.5			
4					BOTTOM OF BORING @ 3.5' BGS

DRAI 4/92

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SOIL BORING REPORT

BORING NO. 3[illegible]

SHEET NO. 1 OF 1

PROJECT NAME: FALCON JET
PROJECT NO.: 92C1099

LOCATION: MOONACHIE, NEW JERSEY
CONTRACTOR: J.C. ANDERSON

START DATE: 8-10-92
FINISH DATE: 8-10-92
DRILLER: WELLES REEVES
DRAI GEOL.: MATT KALMAN

SAMPLER TYPE: SPLIT SPOON
INSIDE DIAMETER (IN.): 3
HAMMER WEIGHT (LB): 140
HAMMER FALL (IN.): 36

RIG TYPE: FAILING F-2
BIT TYPE: AUGER
DEPTH TO WATER: 3.5
TOTAL DEPTH DRILLED: 3.5

DEPTH FROM GRADE (FEET)	SAMPLER BLOWS PER 6 IN.	SAMPLE DESIGNATION	RECOVERY (INCHES)	HNu (ppm)	LITHOLOGIC CLASSIFICATION AND COMMENTS
	AUGER				0-1.0 - ASPHALT AND TRAP ROCK
1					
2	3 5		10	ND	1.5-2.3' - BROWN SILTY F-SAND WITH GRAVEL COMMON @ TOP OF SPOON (SATURATED) (FILL)
3	7 5	3[illegible]			▼
4					BOTTOM OF BORING @ 3.5' BGS

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SOIL BORING REPORT

BORING NO. [illegible]

SHEET NO. 1 OF 1

PROJECT NAME: FALCON JET
PROJECT NO.: 92C1099

LOCATION: MOONACHIE NEW JERSEY
CONTRACTOR: J.C. ANDERSON

START DATE: 8-10-92
FINISH DATE: 8-10-92
DRILLER: WELLES REEVES
DRAI GEOL.: MATT KALMAN

SAMPLER TYPE: SPLIT SPOON
INSIDE DIAMETER (IN.): 3
HAMMER WEIGHT (LB): 140
HAMMER FALL (IN.): 36

RIG TYPE: FAILING F-2
BIT TYPE: AUGER
DEPTH TO WATER: 3.5
TOTAL DEPTH DRILLED: 4.5

DEPTH FROM GRADE (FEET)	SAMPLER BLOWS PER 6 IN.	SAMPLE DESIGNATION	RECOVERY (INCHES)	HNu (ppm)	LITHOLOGIC CLASSIFICATION AND COMMENTS
	—				0-0.5 - ASPHALT AND TRAP ROCK
1	7				0.5-1.3' - TRAP ROCK OVERLYING SILTY FINE SAND WITH COMMON M-C GRAVEL
	5		10		
2	5				
	4				
3	3				2.5-3.2' - BROWN SILTY F-M SAND WITH COMMON F-C GRAVEL (SATURATED @ BOTTOM)
	3	3(4)/3.0-2.5	9		3.2-3.3' GLASS; PLASTIC (FILL)
4	5				
	4				
5					BOTTOM OF BORING @ 4.5' BGS

DRAI 4/92

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SOIL BORING REPORT

BORING NO. 4(1)

SHEET NO. 1 OF 1

PROJECT NAME: FALCON JET
PROJECT NO.: 92C1099
LOCATION: MOONACHIE NEW JERSEY
CONTRACTOR: J.C. ANDERSON

START DATE: 2-6-92
FINISH DATE: 2-6-92
DRILLER: WELLES REEVES
DRAI GEOL.: MATT KALMAN

SAMPLER TYPE: SPLIT SPOON
INSIDE DIAMETER (IN.): 2
HAMMER WEIGHT (LB): 140
HAMMER FALL (IN.): 36

RIG TYPE: FAILING F-2
BIT TYPE: AUGER
DEPTH TO WATER: 3.0'
TOTAL DEPTH DRILLED: 7.0'

DEPTH FROM GRADE (FEET)	SAMPLER BLOWS PER 6 IN.	SAMPLE DESIGNATION	RECOVERY (INCHES)	HNu (ppm)	LITHOLOGIC CLASSIFICATION AND COMMENTS
1	AUGER	4(1)/2.5-3.0	16	ND	0-1.0' - ASPHALT AND TRAP ROCK 1.0'-2.4' - RED-BROWN SILTY FINE SAND WITH ASPHALT AND TRACE F-M GRAVEL THROUGHOUT (MOIST)
2	10				
	10				
	11				
3	11				▼
	20				3.0-4.1 - RED-BROWN F-M SAND WITH TRACE CONCRETE AND F-M GRAVEL THROUGHOUT. (FILL) (WET)
4	15		13	ND	
	11				
5	8				5.0-7.0' - BROWN SILTY CLAY WITH SOME GRAVEL AND RED-BROWN F-M SAND THROUGHOUT (WET)
	21				
6	10		18	ND	
	15				
7	11				BOTTOM OF BORING @ 7.0' BGS

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SOIL BORING REPORT

BORING NO. 4(2)

SHEET NO. 1 OF 1

PROJECT NAME: FALCON JET
PROJECT NO.: 92C1099

LOCATION: MOONACHIE NEW JERSEY
CONTRACTOR: J.C. ANDERSON

START DATE: 5-6-92
FINISH DATE: 5-6-92
DRILLER: WELLES REEVES
DRAI GEOL.: MATT KALMAN

SAMPLER TYPE: SPLIT SPOON
INSIDE DIAMETER (IN.): 3
HAMMER WEIGHT (LB): 140
HAMMER FALL (IN.): 36

RIG TYPE: FAILING F-7
BIT TYPE: AUGER
DEPTH TO WATER: 3.0
TOTAL DEPTH DRILLED: 3.5

DEPTH FROM GRADE (FEET)	SAMPLER BLOWS PER 6 IN.	SAMPLE DESIGNATION	RECOVERY (INCHES)	HNu (ppm)	LITHOLOGIC CLASSIFICATION AND COMMENTS
1	AUGER				
2	7 6	4(2)/2.5-3.0	15	ND	1.5-2.8' - BROWN SILTY F-SAND W/ MUCH F-M GRAVEL AND SOME ASPHALT WET @ BOTTOM.
3	4 3				
4					BOTTOM OF BORING @ 3.5' BGS

DRAI 4/92

Dan Raviv Associates, Inc.
57 E. Willow Street Millburn, NJ 07041

SOIL BORING REPORT

BORING NO. 4(?)

SHEET NO. 1 OF 1

PROJECT NAME: FALCON JET
PROJECT NO.: 92C1099

LOCATION: MOONACHIE NEW JERSEY
CONTRACTOR: J.C. ANDERSON

START DATE: 5-7-92
FINISH DATE: 5-7-92
DRILLER: WELLES REEVES
DRAI GEOL.: MATT FALMAN

SAMPLER TYPE: SPLIT SPOON
INSIDE DIAMETER (IN.): 3
HAMMER WEIGHT (LB): 140
HAMMER FALL (IN.): 36

RIG TYPE: FAILING F-2
BIT TYPE: AUGER
DEPTH TO WATER: 3C
TOTAL DEPTH DRILLED: 3.5

DEPTH FROM GRADE (FEET)	SAMPLER BLOWS PER 6 IN.	SAMPLE DESIGNATION	RECOVERY (INCHES)	HNu (ppm)	LITHOLOGIC CLASSIFICATION AND COMMENTS
1	A. 6 6 2				
2	5 4		12	NO	1'-2.5' RED-BROWN TO BROWN SILT / FINE SAND WITH TRACE F-C GRAVEL (WET) ▼
3	3 2				
4					BOTTOM OF BORING @ 3.5' BGS

DRAI 4/92

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57 E. Willow Street Millburn, NJ 07041

SOIL BORING REPORT

BORING NO. 4(4)

SHEET NO. 1 OF 1

PROJECT NAME: FALCON JET
PROJECT NO.: 92C1099
LOCATION: MOONACHIE NEW JERSEY
CONTRACTOR: J.C. ANDERSON

START DATE: 5-6-92
FINISH DATE: 5-6-92
DRILLER: WELLES REEVES
DRAI GEOL.: MATT KALMAN

SAMPLER TYPE: SPLIT SPOON
INSIDE DIAMETER (IN.): 3
HAMMER WEIGHT (LB): 140
HAMMER FALL (IN.): 36

RIG TYPE: FAILING F-2
BIT TYPE: AUGER
DEPTH TO WATER: 3.0
TOTAL DEPTH DRILLED: 3.5

DEPTH FROM GRADE (FEET)	SAMPLER BLOWS PER 6 IN.	SAMPLE DESIGNATION	RECOVERY (INCHES)	HNu (ppm)	LITHOLOGIC CLASSIFICATION AND COMMENTS
1	AUG EZ	4(4)/2.5-3.0	14	ND	1.5-2.7' - BROWN SILTY F-M SAND W/ F-C GRAVEL THROUGHOUT AND SOME ASPHALT (WET)
2	7 6				
3	3 2				BOTTOM OF BORING @ 3.5' BGS
4					

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SOIL BORING REPORT

BORING NO. SB(1)

SHEET NO. 1 OF 1

PROJECT NAME: FALCON JET
PROJECT NO.: 92C1099

LOCATION: MOONACHIE NEW JERSEY
CONTRACTOR: J.C ANDERSON

START DATE: 5-10-92
FINISH DATE: 5-10-92
DRILLER: WAYNE REEVES
DRAI GEOL.: MATT KALMAN

SAMPLER TYPE: SPLIT SPOON
INSIDE DIAMETER (IN.): 2
HAMMER WEIGHT (LB): 140
HAMMER FALL (IN.): 36

RIG TYPE: FAILING F-2
BIT TYPE: AUGER
DEPTH TO WATER: 4.0
TOTAL DEPTH DRILLED: 5.0

DEPTH FROM GRADE (FEET)	SAMPLER BLOWS PER 6 IN.	SAMPLE DESIGNATION	RECOVERY (INCHES)	HNu (ppm)	LITHOLOGIC CLASSIFICATION AND COMMENTS
1	R, 6, 12				0-0.4' - ASPHALT AND TRAP ROCK
2	13, 7		8	ND	1.0-1.6' - BROWN CLAYEY SILT W/ TRACE F-C GRAVEL MOIST (FILL)
3	7, 5				3.0-3.8' - BROWN CLAYEY SILT W/ TRACE F-SAND
4	3, 1	SB(1)/3.5-4.0	14	ND	4.6-4.2' - SHALE LITHOLOGY W/ POSSIBLE STAINING AND A SLIGHT ODOR (SATURATED) ▼
5	1, 1				BOTTOM OF BORING @ 5.0' BGS

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SOIL BORING REPORT

BORING NO. S(2)

SHEET NO. 1 OF 1

PROJECT NAME: FALCON JET
PROJECT NO.: 9201099
LOCATION: MOONACHIE, NEW JERSEY
CONTRACTOR: J.C ANDERSON

START DATE: 8-10-92
FINISH DATE: 8-10-92
DRILLER: WELLES REEVES
DRAI GEOL.: MATT KALMAN

SAMPLER TYPE: SPLIT SPOON
INSIDE DIAMETER (IN.): 2
HAMMER WEIGHT (LB): 140
HAMMER FALL (IN.): 36

RIG TYPE: FAILING F-2
BIT TYPE: AUGER
DEPTH TO WATER: 4 C
TOTAL DEPTH DRILLED: 4.5

DEPTH FROM GRADE (FEET)	SAMPLER BLOWS PER 6 IN.	SAMPLE DESIGNATION	RECOVERY (INCHES)	HNu (ppm)	LITHOLOGIC CLASSIFICATION AND COMMENTS
0	A				0-1.0' - ASPHALT AND TRAP ROCK
1	U				
	G				
2	E				
	R				
3	7				2.5-3.5' - LIGHT BROWN SILTY FINE SAND W/ TRACE F-M GRAVEL (SATURATED) (FILL)
	4	S(2)/3.5-4.0	16	ND	
4	2				
	2				
5					BOTTOM OF BORING @ 4.5' BGS

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SOIL BORING REPORT

BORING NO. 5(3)

SHEET NO. 1 OF 1

PROJECT NAME: FALCON JET
PROJECT NO.: 92C1099

LOCATION: MOONACHIE NEW JERSEY
CONTRACTOR: J.C. ANDERSON

START DATE:
FINISH DATE:
DRILLER: WELLES REEVES
DRAI GEOL.: MATT KALMAN

SAMPLER TYPE: SPLIT SPOON
INSIDE DIAMETER (IN.): 3
HAMMER WEIGHT (LB): 140
HAMMER FALL (IN.): 36

RIG TYPE: FAILING F-2
BIT TYPE: AUGER
DEPTH TO WATER:
TOTAL DEPTH DRILLED:

DEPTH FROM GRADE (FEET)	SAMPLER BLOWS PER 6 IN.	SAMPLE DESIGNATION	RECOVERY (INCHES)	HNu (ppm)	LITHOLOGIC CLASSIFICATION AND COMMENTS
	[illegible]				[illegible] AND TRAP ROCK
	[illegible]				
	[illegible]				
	[illegible]				
2	[illegible]				
3	6				3.5 - 4.5 - LIGHT BROWN SILTY FINE SAND W/ COMMON M-C GRAVEL AND [illegible] FINE SAND (MOIST @ BOTTOM).
	17		24	ND	
	17	[illegible]			
	18	[illegible]			
					[illegible] OF BORING @ 4.5 [illegible]

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SOIL BORING REPORT

BORING NO. [illegible]

SHEET NO. 1 OF 1

PROJECT NAME: FALCON JET
PROJECT NO.: 92C1099

LOCATION: MOONACHIE, NEW JERSEY
CONTRACTOR: J.C. ANDERSON

START DATE: 8-10-92
FINISH DATE: 8-[illegible]-92
DRILLER: WELLES REEVES
DRAI GEOL.: MATT KALMAN

SAMPLER TYPE: HAND AUGER
INSIDE DIAMETER (IN.): 3
HAMMER WEIGHT (LB): 140
HAMMER FALL (IN.): 36

RIG TYPE: NA
BIT TYPE: NA
DEPTH TO WATER: 4.0
TOTAL DEPTH DRILLED: 4.0

DEPTH FROM GRADE (FEET)	SAMPLER BLOWS PER 6 IN.	SAMPLE DESIGNATION	RECOVERY (INCHES)	HNu (ppm)	LITHOLOGIC CLASSIFICATION AND COMMENTS
	F				C-0.5 - CONCRETE
1	A				0.5-4.0' - BROWN F-M SAND WITH COMMON
	N				M-C ANGULAR GRAVEL AND TRACE
2	A D				SILT & SATURATED, (FILL)
	U				
3	G			ND	
	E	3(4)/3.5-4.0			▼
4	R				
					BOTTOM OF BORING @ 4.0' BGS

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SOIL BORING REPORT

BORING NO. G(1)

SHEET NO. 1 OF 1

PROJECT NAME: FALCON JET
PROJECT NO.: 9120[illegible]
LOCATION: [illegible]
CONTRACTOR: [illegible]

START DATE: 8-6-92
FINISH DATE: 8-[illegible]-92
DRILLER: [illegible]
DRAI GEOL.: [illegible]

SAMPLER TYPE: SPLIT SPOON
INSIDE DIAMETER (IN.): 3
HAMMER WEIGHT (LB): 140
HAMMER FALL (IN.): 36

RIG TYPE: FAILING F-2
BIT TYPE: AUGER
DEPTH TO WATER: 4.5'
TOTAL DEPTH DRILLED: 7.0'

DEPTH FROM GRADE (FEET)	SAMPLER BLOWS PER 6 IN.	SAMPLE DESIGNATION	RECOVERY (INCHES)	HNu (ppm)	LITHOLOGIC CLASSIFICATION AND COMMENTS
1	AUGER 12	G(1) / 4.0 - 4.5	16	ND	0 - 1.0' - ASPHALT AND TRAP ROCK 1.0 - 2.3 - LIGHT BROWN SILTY CLAY WITH F-C GRAVEL AND ASPHALT THROUGHOUT. (FILL)
2	11 10				
3	9 5		5	ND	3.0 - 3.6 - LIGHT BROWN SILTY CLAY W/ MUCH ASPHALT AND F-C GRAVEL; SOME PLASTIC; MOIST; (FILL)
4	4 4				▼
5	4 5		5	ND	5.0' - 5.4' - F-C GRAVEL IN SILTY CLAY MATRIX (LIGHT BROWN); SATURATED; (FILL)
6	7 6				
7	6				BOTTOM OF BORING @ 7.0' BGS

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SOIL BORING REPORT

BORING NO. G(2)

SHEET NO. 1 OF 1

PROJECT NAME: FALCON JET
PROJECT NO.: 92C1099

LOCATION: MOONACHIE NEW JERSEY
CONTRACTOR: J.C ANDERSON

START DATE: 5-6-92
FINISH DATE: 5-6-92
DRILLER: WELLES REEVES
DRAI GEOL.: MATT KALMAN

SAMPLER TYPE: SPLIT SPOON
INSIDE DIAMETER (IN.): 2
HAMMER WEIGHT (LB): 140
HAMMER FALL (IN.): 36

RIG TYPE: FAILING F-2
BIT TYPE: AUGER
DEPTH TO WATER: 4.5'
TOTAL DEPTH DRILLED: 5.0'

DEPTH FROM GRADE (FEET)	SAMPLER BLOWS PER 6 IN.	SAMPLE DESIGNATION	RECOVERY (INCHES)	HNu (ppm)	LITHOLOGIC CLASSIFICATION AND COMMENTS
					* AUGERED TO 3.5' BGS
1	A				
	U				
2	G				
	E				
3	R				
	9				
4	4	G(2)/4.0-4.5	12	0.0	3.5'-4.5' - LIGHT BROWN SILTY CLAY WITH TRACE F-C GRAVEL SATURATED @ BOTTOM
	2				
5					BOTTOM OF BORING @ 5.0' BGS

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SOIL BORING REPORT

BORING NO. G(3)

SHEET NO. 1 OF 1

PROJECT NAME: FALCON JET
PROJECT NO.: 92C1099
LOCATION: MOONACHIE, NEW JERSEY
CONTRACTOR: J.C ANDERSON

START DATE:
FINISH DATE:
DRILLER: WELLES REEVES
DRAI GEOL.: MATT FALMAN

SAMPLER TYPE: SPLIT SPOON
INSIDE DIAMETER (IN.): 3
HAMMER WEIGHT (LB): 140
HAMMER FALL (IN.): 36

RIG TYPE: FAILING F-2
BIT TYPE: AUGER
DEPTH TO WATER: 4.5'
TOTAL DEPTH DRILLED: 5.0'

DEPTH FROM GRADE (FEET)	SAMPLER BLOWS PER 6 IN.	SAMPLE DESIGNATION	RECOVERY (INCHES)	HNu (ppm)	LITHOLOGIC CLASSIFICATION AND COMMENTS
1	A	G(3)/4.0-4.5	18	ND	AUGERED TO 3.5' BGS
2	U				
	G				
3	E				
	R				
4	9				3.5-4.5' - DARK BROWN SILTY CLAY (MUD) WITH SOME F-M GRAVEL (FILL).
	7				▼ 4.5-5.0' - LIGHT BROWN SILTY CLAY WITH TRACE ORANGE F-M SAND AND F-M GRAVEL THROUGHOUT.
5	4				BOTTOM OF BORING @ 5.0' BGS

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SOIL BORING REPORT

BORING NO. G(4)

SHEET NO. 1 OF 1

PROJECT NAME: FALCON JET
PROJECT NO.: 92C1099
LOCATION: MOONACHIE NEW JERSEY
CONTRACTOR: J.C ANDERSON

START DATE: 5-6-92
FINISH DATE: 5-6-92
DRILLER: WILLIES REEVES
DRAI GEOL.: MATT KALMAN

SAMPLER TYPE: SPLIT SPOON
INSIDE DIAMETER (IN.): 3
HAMMER WEIGHT (LB): 140
HAMMER FALL (IN.): 36

RIG TYPE: FAILING F-2
BIT TYPE: AUGER
DEPTH TO WATER: 4.5'
TOTAL DEPTH DRILLED: 5.0'

DEPTH FROM GRADE (FEET)	SAMPLER BLOWS PER 6 IN.	SAMPLE DESIGNATION	RECOVERY (INCHES)	HNu (ppm)	LITHOLOGIC CLASSIFICATION AND COMMENTS
					AUGERED TO 3.5' BGS
1	A				
	U				
2	G				
	E				
3	R				
	9				
4	11	G(4) 4.0-4.5 (A&B)	18	ND	3.5'-4.0' - GRAY GRAVELLY SILT WITH MUCH F-M SAND (DRY)
	3				4.0-5.0' - BROWN TO GRAY SILTY F-SAND WITH GRAVEL AND LIGHT GRAY F-SAND THROUGHOUT (WET) (FILL)
5					BOTTOM OF BORING @

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SOIL BORING REPORT

BORING NO. 9(.)

SHEET NO. 1 OF 1

PROJECT NAME: FALCON JET
PROJECT NO.: 9201099
LOCATION: MOONACHIE NEW JERSEY
CONTRACTOR: J.C ANDERSON

START DATE: 5-7-92
FINISH DATE: 5-7-92
DRILLER: WELLES REEVES
DRAI GEOL.: MATT KALMAN

SAMPLER TYPE: SPLIT SPOON
INSIDE DIAMETER (IN.): 3
HAMMER WEIGHT (LB): 140
HAMMER FALL (IN.): 36

RIG TYPE: FAILING F-2
BIT TYPE: AUGER
DEPTH TO WATER: 3.5'
TOTAL DEPTH DRILLED: 4'

DEPTH FROM GRADE (FEET)	SAMPLER BLOWS PER 6 IN.	SAMPLE DESIGNATION	RECOVERY (INCHES)	HNu (ppm)	LITHOLOGIC CLASSIFICATION AND COMMENTS
1	A U C E 2				0-1.0' - CONCRETE
2	2				2.0-3.3' - BROWN SILTY FINE SAND W/ CONCRETE FRAGMENTS FROM ABOVE; TRACE F-M GRAVEL; (WET); (FILL)
3	2	9(.)/3.0-3.5	15	ND	▼
4					BOTTOM OF BORING @ 4.0' BGS

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SOIL BORING REPORT

BORING NO. 9(2)

SHEET NO. 1 OF

PROJECT NAME: FALCON JET
PROJECT NO.: 9201099
LOCATION: MOONACHIE, NEW JERSEY
CONTRACTOR: J.C. ANDERSON

START DATE: 8-7-92
FINISH DATE: 8-7-92
DRILLER: WESLEY REEVES
DRAI GEOL.: MATT KALMAN

SAMPLER TYPE: SPLIT SPOON
INSIDE DIAMETER (IN.): 2
HAMMER WEIGHT (LB): 140
HAMMER FALL (IN.): 36

RIG TYPE: FAILING F-2
BIT TYPE: AUGER
DEPTH TO WATER: 3.5'
TOTAL DEPTH DRILLED: 4.0

DEPTH FROM GRADE (FEET)	SAMPLER BLOWS PER 6 IN.	SAMPLE DESIGNATION	RECOVERY (INCHES)	HNu (ppm)	LITHOLOGIC CLASSIFICATION AND COMMENTS
1	4, 3, 2	9(2)/3.0-3.5	15		0-1.0 - CONCRETE 1.0'-2.0' - BROWN SILTY F-SAND W/ SOME F-M GRAVEL THROUGHOUT.
2	2, 2				
3	2, 2		15		2.0-3.5' - BROWN SILTY F-SAND W/ ROUNDED F-M GRAVEL. ▼
4	2				BOTTOM OF BORING @ 4.0' BGS

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SOIL BORING REPORT

BORING NO. B(3)

SHEET NO. 1 OF 1

PROJECT NAME: FALCON JET
PROJECT NO.: 92C1099
LOCATION: MOONACHIE NEW JERSEY
CONTRACTOR: J.C ANDERSON

START DATE: 5-7-92
FINISH DATE: 5-7-92
DRILLER: WELLES REEVES
DRAI GEOL.: MATT KALMAN

SAMPLER TYPE: SPLIT SPOON
INSIDE DIAMETER (IN.): 3
HAMMER WEIGHT (LB): 140
HAMMER FALL (IN.): 36

RIG TYPE: FAILING F-2
BIT TYPE: AUGER
DEPTH TO WATER: 3.5
TOTAL DEPTH DRILLED: 4.0

DEPTH FROM GRADE (FEET)	SAMPLER BLOWS PER 6 IN.	SAMPLE DESIGNATION	RECOVERY (INCHES)	HNu (ppm)	LITHOLOGIC CLASSIFICATION AND COMMENTS
	A				0-1.0' CONCRETE
1	U 6 F				
2	R 9				2.0-3.5' BROWN SILTY FINE - MED SAND WITH TRACE GRAVEL AND CONCRETE SATURATED
3	9 7	B(3) 3.0-3.5	13	ND	▼ WET BOTTOM (FILL)
4	5				BOTTOM OF BORING @ 4.0' BGS

Dan Raviv Associates, Inc.
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SOIL BORING REPORT

BORING NO. 9(4)

SHEET NO. 1 OF 1

PROJECT NAME: FALCON JET
PROJECT NO.: 92C1099

LOCATION: MOONACHIE NEW JERSEY
CONTRACTOR: J.C. ANDERSON

START DATE: 8-7-92
FINISH DATE: 8-7-92
DRILLER: WELLES REEVES
DRAI GEOL.: MATT KALMAN

SAMPLER TYPE: SPLIT SPOON
INSIDE DIAMETER (IN.): 3
HAMMER WEIGHT (LB): 140
HAMMER FALL (IN.): 36

RIG TYPE: FAILING F-2
BIT TYPE: AUGER
DEPTH TO WATER: 3.5
TOTAL DEPTH DRILLED: 4.0

DEPTH FROM GRADE (FEET)	SAMPLER BLOWS PER 6 IN.	SAMPLE DESIGNATION	RECOVERY (INCHES)	HNu (ppm)	LITHOLOGIC CLASSIFICATION AND COMMENTS
	L				0-1.0' - CONCRETE
1	U C				
	E				
2	R				
	9		12	ND	2.0-3.0' - BROWN F-M SAND WITH COMMON GRAVEL WET @ BOTTOM (FILL)
3	4				
	3	9(4)/3.0-3.5			
4	5				
					BOTTOM OF BORING @ 4.0' BGS

APPENDIX B

APPENDIX B

UGST Cost Estimate

Cost Estimate for UGST
Closure Plan Site Assessment
Falcon Jet Corp.
Moonachie, New Jersey

Option I - Removal

Itemized Expenditures	Cost
I. Geologist	
A. Prepare and submit to the NJDEPE the UGST closure plan, including fees. Supervise removal of UGST(s) and evaluate geologic conditions. Perform soil quality monitoring during UGST excavation and post-excavation soil sampling.	$ 3,350
B. Preparation of Site Assessment Summary Report and submittal to the NJDEPE.	$ 2,500
II. Field Equipment	
HNu photoionization detector. @ $40/day	$ 200
III. Analytical Costs	
Post-excavation soil sample analysis [1]	
1. 10 samples VOCs+15[2] @ $275/sample	$ 2,750
2. 10 samples PCBs[3] @ $140/sample	$ 1,400
3. 10 samples PHCs[4] @ $70/sample	$ 700
4. 10 samples B/Ns+15[5] @ $375/sample	$ 3,750
5. 10 samples PP Metals[6] @ $275/sample	$ 2,750
IV. Subcontractor Costs	
Removal, disposal of 5 UGSTs. Includes backfilling all excavations.	$ 9,400
Subtotal:	$26,800
10% Contingency:	$ 2,680
Option I - Total Estimated Cost: (Rounded)	$29,480

Cost Estimate for UGST
Closure Plan Site Assessment
Falcon Jet Corp.
Moonachie, New Jersey

Option II - Upgrade

Itemized Expenditures	Cost
I. DRAI Cost	
Project Oversight	$ 500
II. Subcontractor Cost	
a. Leak detection and cathodic protection for 5 tanks.	$60,000
Option II - Total Estimated Cost:	$60,500

NOTES:
(1) The total quantity of soil samples for analyses are subject to NJDEPE approval and may be revised at their discretion.
(2) VOCs+15 = Volatile organic compounds plus 15 peaks.
(3) PCBs = Polychlorinated biphenyls.
(4) PHCs = Petroleum hydrocarbons.
(5) B/Ns+15 = Base neutral compounds plus 15 peaks.
(6) PP = Priority pollutants.

Exhibit C

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
HAZARDOUS WASTE GENERATOR ANNUAL REPORT 1988
CERTIFICATION FORM

ITEM 1 **USEPA Identification Number:** NJD 981491509 (Teterboro Jet Center)
NJD 134869551 (Teterboro Hydraulic Shop)

ITEM 2 **Generator (Company) Name:** Falcon Jet Corporation

ITEM 3 **Contact Person:** George Rege, Rudy Bioletti, Peter Rothwell

ITEM 4 **Phone Number:** (201) 288-5300

ITEM 5 **Certification:**

I certify that the information given in this annual report is true, accurate and complete and that I have received the following guide, "GENERATOR'S GUIDE TO UNDERSTANDING THE NEW JERSEY HAZARDOUS WASTE REGULATIONS".

FALCON JET CORPORATION

J. Morgan Young		1/18/90
Sr. V.P., Fin. & Admin.		
(Print or type name)	(Signature)	(Date)

ITEM 6

A ☐ **This site (company) generated less than 1.33 tons of hazardous waste for the calendar year 1988 (No Fee)**

B ☒ **This site (company) generated greater than 1.33 tons of hazardous waste but less than 10 tons of hazardous waste during the calendar year 1988 (Fee $200)**
3.25 tons (as per manifests - attached)

C ☐ **This site (company) generated greater than 10 tons of hazardous but less than 100 tons of hazardous waste during the calendar year (Fee $300)**

D ☐ **This site (company) generated greater than 100 tons of hazardous waste during the calendar year (Fee $400)**

ITEM 7 **Federal Vendor Identification Number**

22-1978098

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
HAZARDOUS WASTE GENERATOR ANNUAL REPORT 1988
- REPORT FORM -

1. **Generator Name** Falcon Jet Corporation, Teterboro Airport, Teterboro, NJ 07608

2. **USEPA ID Number** NJD 981491509 NJD 134869551

3. **Site Address** Falcon Jet Center
114 Billy Diehl Rd.
Teterboro Airport
Teterboro, NJ 07608

Falcon Jet Hydraulics Shop
900 Moonachie Avenue
Teterboro, NJ 07608

4. **Transporter Name** CONTINENTAL CARRIERS

5. **Transporter USEPA ID Number** NJD 990720658

6. **TSD Facility Name** Solvents Recovery Service of New Jersey, Inc.

7. **TSD Facility EPA ID Number** NJD 002182897

8. **TSD Address** Solvents Recovery Serv ice of New Jersey
1200 Sylvan Street
Linden, New Jersey 07036

9.

Waste A.) Number (I)	Waste B.) Description (11)	DOT Haz C.) Class (11 or J)	Total D.) Quantity (13)	E.) Units (14)
NA 1270 PN 015117	Waste Oil (Flammable Liquid)	L, I	825	G
PN 015677-FD	Non-Hazardous	L, I	110	G
D001 UN 1993 PN 015674-FD	RQ Waste, Flammable Liquid	L, I	50	G
F002 UN 1993 PN 015698-HD	RQ Waste, Flammable Liquid	L, I	100	G

NOTE: **For each combination of transporter and treatment, storage and disposal facility (TSDF), list the TOTAL quantity manifested for each waste type.**

All waste was picked up by Continental Carriers.
All waste was taken to same TSD facility at
Solvents Recovery Services of New Jersey.

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
HAZARDOUS WASTE GENERATOR ANNUAL REPORT 1988
WASTE SUMMARY FORM

Generator (Company) Name Falcon Jet Corporation

Falcon Jet Hydraulic Shop - NJD 134869551

US EPA ID Number Falcon Jet Center - NJD 981491509

Directions

Please indicate below the total quantity of hazardous waste manifested during the 1988 report year for each unit of measure. Enter the units of measure as they appeared in item #14 of the manifest. Do not convert one form of unit of measure to another.

1085. G - Gallons (liquids only)

P - Pounds

T - Tons

Y - Cubic Yards

L - Liters (Liquids only)

K - Kilograms

Conversions for page # 4:

Tons = Gallons (G) x $\frac{8.34}{2000}$

= Pounds (P) divided by 2000

= Cubic Yards (Y) x $\frac{1684.8}{2000}$

= Liters (L) x $\frac{2.203}{2000}$

= Kilograms (K) x $\frac{2.204}{2000}$

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
HAZARDOUS WASTE GENERATOR ANNUAL REPORT 1989
CERTIFICATION FORM

ITEM 1 USEPA Identification Number: NJD 134869551 (Teterboro Hydraulic Shop)

ITEM 2 Generator (Company) Name: Falcon Jet Corporation

ITEM 3 Contact Person: Rudy Bioletti, Peter Rothwell

ITEM 4 Phone Number: (201) 288-5300

ITEM 5 Certification:

I certify that the information given in this annual report is true, accurate and complete.

FSR 3/27/90

FALCON JET CORPORATION

By: J.M. Young
Sr. VP, Fin & Admin
(Print or type name)

(Signature)

3/27/90
(Date)

ITEM 6

A [XX] This site (company) generated less than 1.33 tons of hazardous waste for the calendar year 1989 (No Fee)
0.6255

B [ ] This site (company) generated greater than 1.33 tons of hazardous waste but less than 10 tons of hazardous waste during the calendar year 1989 (Fee $200)

C [ ] This site (company) generated greater than 10 tons of hazardous but less than 100 tons of hazardous waste during the calendar year (Fee $300)

D [ ] This site (company) generated greater than 100 tons of hazardous waste during the calendar year (Fee $400)

ITEM 7 Federal Vendor Identification Number

* Please submit check with your completed report.

(E) Enter the appropriate abbreviation from Table II (below) for the unit of measure used in determining the total quantity of waste indicated. Item #14 on the manifest.

TABLE II

G - Gallons (liquids only) 150

P - Pounds

T - Tons (2,000 pounds)

Y - Cubic Yards

L - Liters (liquids only)

K - Kilograms

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
HAZARDOUS WASTE GENERATOR ANNUAL REPORT 1989
WASTE SUMMARY FORM

Generator (Company) Name Falcon Jet Corporation

US EPA ID Number NJD 134869551

Directions

Please indicate below the total quantity of hazardous waste manifested during the 1989 report year for each unit of measure. Enter the units of measure as they appeared in item #14 of the manifest. Do not convert one form of unit of measure to another.

150 G - Gallons (liquids only)

_____ P - Pounds

_____ T - Tons

_____ Y - Cubic Yards

_____ L - Liters (Liquids only)

_____ K - Kilograms

OMB#: Expires

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: Falcon Jet Corporation
90 Moonachie Avenue
Moonachie, NJ 07608

EPA ID NO. NJD134869551

DRAFT
8-25-89

FORM
IC

U.S. ENVIRONMENTAL PROTECTION AGENCY

1989 Waste Minimization Report

IDENTIFICATION AND CERTIFICATION

INSTRUCTIONS: Read the detailed instructions beginning on page 6 of the 1989 Hazardous Waste Report booklet before completing this form.

SEC. I
Site name and location address. Complete items A through H. Check the box ☒ in items A, B, D, E, F, G, and H if same as label; if different, enter corrections. If label is absent, enter information. Instruction page 6.

A. EPA ID No. Same as label ☐ or → NJD134869551

B. Site/company name Same as label ☐ or → Falcon Jet Corporation Teterboro Airport, NJ 07608

C. Has the site name associated with this EPA ID changed since 1987? ☐ 1 Yes ☒ 2 No

D. Street name and number. If not applicable, enter industrial park, building name or other physical location description. Same as label ☐ or → N/A

E. City, town, village, etc. Same as label ☐ or → N/A

F. County

G. State Same as label ☐

H. Zip Code Same as label ☐

SEC. II
Mailing address of site. Instruction page 6.

A. Is the mailing address the same as the location address? ☐ 1 Yes (SKIP TO SEC. III) ☒ 2 No (COMPLETE SEC. II)

B. Number and street name of mailing address: Teterboro Airport

C. City, town, village, etc.: Teterboro,

D. State: NJ

E. Zip Code: 07608-1047

SEC. III
Name, title, and telephone number of the person who should be contacted if questions arise regarding this report. Instruction page 6.

A. Please print: Last name	First name	M.I.	B. Title	C. Telephone
Rothwell,	Peter	S.	Associate Counsel	201 288-5300 Extension 8051

SEC. IV
Enter the Standard Industrial Classification (SIC) Code that describes the principal products, group of products, produced or distributed, or the services rendered at the site's physical location. Enter more than one SIC Code only if no one industry description includes the combined activities of the site. Instruction page 7.

A.	B.	C.	D.
3721			

SEC. V
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. Number of form pages submitted: Form IC 12 Form WM

B. Please print: Last name	First name	M.I.	C. Title
Rothwell,	Peter	S.	Associate Counsel

D. Signature: Peter Rothwell

E. Date of signature: 03 (MO.) 27 (DAY) 90 (YR.)

EPA Form Revised

OVER →

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: Falcon Jet Corporation
90 Moonachie Avenue
Moonachie, NJ 07608

EPA ID NO.: NJD134816955 1

DRAFT
8-25-89

FORM
WM

U.S. ENVIRONMENTAL PROTECTION AGENCY

1989 Waste Minimization Report

WASTE MINIMIZATION

INSTRUCTIONS: Read the detailed instructions beginning on page 9 of the 1989 Waste Minimization Report booklet before completing this form.

Sec. I

A. Waste description (Instruction Page 11): RQ Waste Flammable Liquid NOS
RQ Waste Flammable Liquid NOS

B. EPA hazardous waste code (Page 11): D001 F002

C. State hazardous waste code (Page 11):

D. SIC code (Page 11): 3721

E. Source code (Page 11): A73; A53; A54

F. Form code (Page 12): B206

G. Origin (Page 12): Code 3
System type: M014

H. TRI constituent (Page 12): 3

I. CAS numbers (Page 13): 1. 71-43-2 2. NA 3. NA 4. NA 5. NA

Sec. II

A. Quantity generated in 1988 (Instruction Page 13): 3.5

B. Quantity generated in 1989 (Page 13): 0.6255

C. UOM (Page 13): 5

D. Density (Page 14): ☒ 1 lbs/gal ☐ 2 sg

E. Was this waste recycled in 1989? (Page 14): ☐ 1 Yes (CONTINUE TO BOX F) ☒ 2 No (SKIP TO SEC. III)

F. On-site recycling (Page 14): N/A
Quantity recycled on site in 1989:

G. Off-site recycling (Page 14): N/A
Quantity recycled off site in 1989:

Sec. III

A. Activity (Page 14): N/A
WI WI
WI WI

B. Other effects (Page 14): N/A
☐ 1 Yes
☐ 2 No

C. Quantity recycled in 1989 due to new activities (Page 14): N/A

D. Activity/Production Index (Page 15): N/A

E. Source Reduction Quantity (Page 16): N/A

Comments:

Haz. Mat. file

FalconJet

January 2, 1991

New Jersey Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section, 5th Floor
CN 028
Trenton, New Jersey 08625

ATTN: Mr. Chan Baldeo, Section Chief
Bureau of Manifest & Information Systems

SUBJECT: FALCON JET CORPORATION - 1989 HAZARDOUS WASTE GENERATOR ANNUAL REPORT AS AMENDED 3/27/90 - US EPA ID NO. NJD981491509 AND US EPA ID NO. NJD134869551

Reference: Your 11/26/90 Letter to George Rege, Peter Rothwell

Dear Mr. Baldeo:

Pursuant to the instructions in the above referenced letter, enclosed please find copies of Falcon Jet's Manifests for Year 1989. Upon receipt of the referenced letter, a search of our files was conducted which revealed that one manifest dated 2/10/89 was not included in our 1989 Report. Copies of all the Manifests for Falcon Jet's Teterboro Jet Center are enclosed as follows:

1. US EPA ID NO. NJD981491509: (Teterboro Jet Center)

   - Manifest No. NJA0426725 dated 2/10/89;
   - Blank Manifest sent to Falcon Jet by Safety-Kleen Corp. dated 8/10/89; and
   - Manifest No. NJA0628815 dated 11/1/89.

The appropriate changes have been made on a copy of the original report and initialed. A copy of the missing manifest has been supplied.

Our check No. M009748 in the amount of $100.00 is enclosed. This represents the difference noted in ITEM 6, Page 4.

I trust that Falcon Jet's Report for 1989 is now complete as to our Manifest filings.

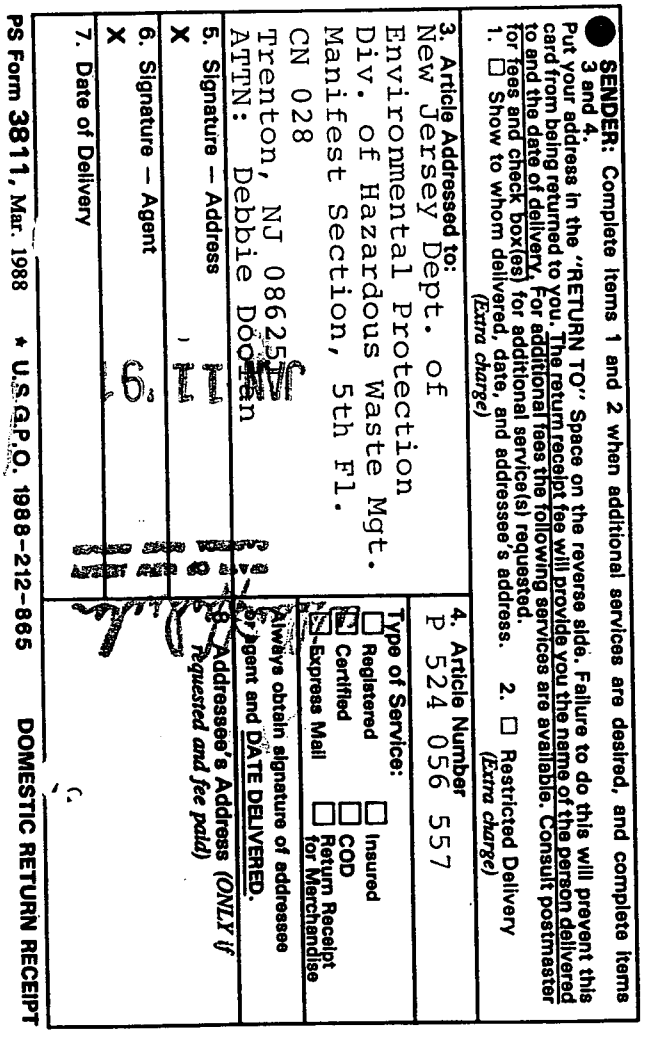
Please advise if I can be of further help in this matter.

Very truly yours,

FALCON JET CORPORATION

By _____
Peter S. Rothwell
Secretary

#524056557, Return Receipt Requested.



SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.
1. ☐ Show to whom delivered, date, and addressee's address. (Extra charge)
2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to:
New Jersey Dept. of
Environmental Protection
Div. of Hazardous Waste Mgt.
Manifest Section, 5th Fl.
CN 028
Trenton, NJ 08625
ATTN: Debbie Dooren

4. Article Number
P 524 056 557

Type of Service:
☐ Registered ☐ Insured
☑ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Address
X

6. Signature – Agent
X

7. Date of Delivery

8. Addressee's Address (ONLY if Requested and fee paid)

PS Form 3811, Mar. 1988 ★ U.S.G.P.O. 1988-212-865 DOMESTIC RETURN RECEIPT

Corrected

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
HAZARDOUS WASTE GENERATOR ANNUAL REPORT 1989
CERTIFICATION FORM

ITEM 1 USEPA Identification Number: NJD 981491509 (Teterboro Jet Center)

ITEM 2 Generator (Company) Name: Falcon Jet Corporation

ITEM 3 Contact Person: George Rege, Peter Rothwell

ITEM 4 Phone Number: (201) 288-5300

ITEM 5 Certification:

I certify that the information given in this annual report is true, accurate and complete.

PR 3/27/90

FALCON JET CORPORATION

By: J.M. Young
Sr. VP, Fin & Admin
(Print or type name)

(Signature)

3/27/90
(Date)

ITEM 6

A ☐ This site (company) generated less than 1.33 tons of hazardous waste for the calendar year 1989 (No Fee)

B ~~[XX]~~ This site (company) generated greater than 1.33 tons of hazardous waste but less than 10 tons of hazardous waste during the calendar year 1989 (Fee $200)
~~4.7328~~

C [X] This site (company) generated greater than 10 tons of hazardous but less than 100 tons of hazardous waste during the calendar year (Fee $300)
11.6133

D ☐ This site (company) generated greater than 100 tons of hazardous waste during the calendar year (Fee $400)

ITEM 7 Federal Vendor Identification Number

* Please submit check with your completed report.

(E) Enter the appropriate abbreviation from Table II (below) for the unit of measure used in determining the total quantity of waste indicated. Item #14 on the manifest.

TABLE II

G - Gallons (liquids only) ~~990~~ 2640

P - Pounds 1209

T - Tons (2,000 pounds)

Y - Cubic Yards

L - Liters (liquids only)

K - Kilograms

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
HAZARDOUS WASTE GENERATOR ANNUAL REPORT 1989
WASTE SUMMARY FORM

Generator (Company) Name Falcon Jet Corporation

US EPA ID Number NJD 981491509 (Falcon Jet Center)

Directions

Please indicate below the total quantity of hazardous waste manifested during the 1989 report year for each unit of measure. Enter the units of measure as they appeared in item #14 of the manifest. Do not convert one form of unit of measure to another.

~~990.~~ 2640 G - Gallons (liquids only)

1209 P - Pounds

T - Tons

Y - Cubic Yards

L - Liters (Liquids only)

K - Kilograms

OMB#: Expires

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: Falcon Jet Center
113 Billy Diehl Rd.
Teterboro, NJ 07608

EPA ID NO. NJD981491509

DRAFT
8-25-89

FORM
IC

U.S. ENVIRONMENTAL PROTECTION AGENCY

1989 Waste Minimization Report

IDENTIFICATION AND CERTIFICATION

INSTRUCTIONS: Read the detailed instructions beginning on page 6 of the 1989 Hazardous Waste Report booklet before completing this form.

SEC. I Site name and location address. Complete items A through H. Check the box ☒ in items A, B, D, E, F, G, and H if same as label; if different, enter corrections. If label is absent, enter information. Instruction page 6.

A. EPA ID No.
Same as label ☐ or → NJD981491509

B. Site/company name
Same as label ☐ or → Falcon Jet Corporation
Teterboro Airport, NJ 07608

C. Has the site name associated with this EPA ID changed since 1987?
☐ 1 Yes
☒ 2 No

D. Street name and number. If not applicable, enter industrial park, building name or other physical location description.
Same as label ☐ or → N/A

E. City, town, village, etc.
Same as label ☐ or → N/A

F. County

G. State
Same as label ☐

H. Zip Code
Same as label ☐

SEC. II Mailing address of site. Instruction page 6.

A. Is the mailing address the same as the location address?
☐ 1 Yes (SKIP TO SEC. III)
☒ 2 No (COMPLETE SEC. II)

B. Number and street name of mailing address
Teterboro Airport

C. City, town, village, etc.
Teterboro,

D. State
NJ

E. Zip Code
07608-1047

SEC. III Name, title, and telephone number of the person who should be contacted if questions arise regarding this report. Instruction page 6.

A. Please print: Last name / First name / M.I.
Rothwell, / Peter / S.

B. Title
Associate Counsel

C. Telephone
201 288-5300
Extension 8015

SEC. IV Enter the Standard Industrial Classification (SIC) Code that describes the principal products, group of products, produced or distributed, or the services rendered at the site's physical location. Enter more than one SIC Code only if no one industry description includes the combined activities of the site. Instruction page 7.

A. 3721
B.
C.
D.

SEC. V I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. Number of form pages submitted
Form IC 12
Form WM

B. Please print: Last name / First name / M.I.
Rothwell, / Peter, / S.

C. Title
Associate Counsel

D. Signature
Peter Rothwell

E. Date of signature
MO. 03 DAY 27 YR. 90

BEFORE COPYING FORM, ATTACH SITE [illegible]CATION LABEL OR ENTER:

SITE NAME: Falcon Jet Corporation
114 Billy Diehl Road
Teterboro, NJ 07608

EPA ID NO. NJD981491509

DRAFT
8-25-89

U.S. ENVIRONMENTAL PROTECTION AGENCY

1989 Waste Minimization Report

FORM WM

WASTE MINIMIZATION

INSTRUCTIONS: Read the detailed instructions beginning on page 9 of the 1989 Waste Minimization Report booklet before completing this form.

Sec. I

A. Waste description Instruction Page 11: RQ Waste Combustible Liquid NOS (Flammable)
Waste Oil NOS Combustible Liquid (Flammable)
Benzene

B. EPA hazardous waste code Page 11: D001 F002

C. State hazardous waste code Page 11: X726 T

D. SIC code Page 11: 3721

E. Source code Page 11: A73; A53; A54

F. Form code Page 12: B12016

G. Origin Page 12: Code 3; System type M1214

H. TRI constituent Page 12: 3

I. CAS numbers Page 13: 1. 71-43-2 2. N/A 3. N/A 4. N/A 5. N/A

Sec. II

A. Quantity generated in 1988 Instruction Page 13: 315

B. Quantity generated in 1989 Page 13: 11,613 pr

C. UOM Page 13: 5

D. Density Page 14: ☒ 1 lbs/gal ☐ 2 sg

E. Was this waste recycled in 1989? Page 14: ☐ 1 Yes (CONTINUE TO BOX F) ☒ 2 No (SKIP TO SEC. III)

F. On-site recycling Page 14: N/A
Quantity recycled on site in 1989

G. Off-site recycling Page 14: N/A
Quantity recycled off site in 1989

Sec. III

A. Activity Page 14: N/A

B. Other effects Page 14: N/A ☐ 1 Yes ☐ 2 No

C. Quantity recycled in 1989 due to new activities Page 14: N/A

D. Activity/Production Index Page 15: N/A

E. Source Reduction Quantity Page 16: N/A

Comments:

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
HAZARDOUS WASTE GENERATOR ANNUAL REPORT 1989
CERTIFICATION FORM

ITEM 1 USEPA Identification Number: NJD 981491509 (Teterboro Jet Center)

ITEM 2 Generator (Company) Name: Falcon Jet Corporation

ITEM 3 Contact Person: George Rege, Peter Rothwell

ITEM 4 Phone Number: (201) 288-5300

ITEM 5 Certification:

I certify that the information given in this annual report is true, accurate and complete.

3/27/90

FALCON JET CORPORATION

By: J.M. Young
Sr. VP, Fin & Admin
(Print or type name)

(Signature)

3/27/90
(Date)

ITEM 6

A ☐ This site (company) generated less than 1.33 tons of hazardous waste for the calendar year 1989 (No Fee)

B ☒ This site (company) generated greater than 1.33 tons of hazardous waste but less than 10 tons of hazardous waste during the calendar year 1989 (Fee $200)
4.7328

C ☐ This site (company) generated greater than 10 tons of hazardous but less than 100 tons of hazardous waste during the calendar year (Fee $300)

D ☐ This site (company) generated greater than 100 tons of hazardous waste during the calendar year (Fee $400)

ITEM 7 Federal Vendor Identification Number

* Please submit check with your completed report.

(E) Enter the appropriate abbreviation from Table II (below) for the unit of measure used in determining the total quantity of waste indicated. Item #14 on the manifest.

TABLE II

G - Gallons (liquids only)	990.
P - Pounds	1209
T - Tons (2,000 pounds)	
Y - Cubic Yards	
L - Liters (liquids only)	
K - Kilograms	

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
HAZARDOUS WASTE GENERATOR ANNUAL REPORT 1989
WASTE SUMMARY FORM

Generator (Company) Name Falcon Jet Corporation

US EPA ID Number NJD 981491509 (Falcon Jet Center)

Directions

Please indicate below the total quantity of hazardous waste manifested during the 1989 report year for each unit of measure. Enter the units of measure as they appeared in item #14 of the manifest. Do not convert one form of unit of measure to another.

990. G - Gallons (liquids only)

1209 P - Pounds

_____ T - Tons

_____ Y - Cubic Yards

_____ L - Liters (Liquids only)

_____ K - Kilograms

OMB#: Expires

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: Falcon Jet Center
113 Billy Diehl Rd.
Teterboro, NJ 07608

EPA ID NO. NJD981491509

DRAFT
8-25-89

FORM
IC

U.S. ENVIRONMENTAL PROTECTION AGENCY

1989 Waste Minimization Report

IDENTIFICATION AND CERTIFICATION

INSTRUCTIONS: Read the detailed instructions beginning on page 6 of the 1989 Hazardous Waste Report booklet before completing this form.

SEC. I Site name and location address. Complete items A through H. Check the box ☒ in items A, B, D, E, F, G, and H if same as label; if different, enter corrections. If label is absent, enter information. Instruction page 6.

A. EPA ID No. — Same as label ☐ or → NJD981491509

B. Site/company name — Same as label ☐ or → Falcon Jet Corporation Teterboro Airport, NJ 07608

C. Has the site name associated with this EPA ID changed since 1987? ☐ 1 Yes ☒ 2 No

D. Street name and number. If not applicable, enter industrial park, building name or other physical location description. Same as label ☐ or → N/A

E. City, town, village, etc. Same as label ☐ or → N/A

F. County

G. State Same as label ☐

H. Zip Code Same as label ☐

SEC. II Mailing address of site. Instruction page 6.

A. Is the mailing address the same as the location address? ☐ 1 Yes (SKIP TO SEC. III) ☒ 2 No (COMPLETE SEC. II)

B. Number and street name of mailing address: Teterboro Airport

C. City, town, village, etc.: Teterboro,

D. State: NJ

E. Zip Code: 07608-1047

SEC. III Name, title, and telephone number of the person who should be contacted if questions arise regarding this report. Instruction page 6.

A. Please print: Last name	First name	M.I.	B. Title	C. Telephone
Rothwell,	Peter	S.	Associate Counsel	201 288-5300 Extension 8015

SEC. IV Enter the Standard Industrial Classification (SIC) Code that describes the principal products, group of products, produced or distributed, or the services rendered at the site's physical location. Enter more than one SIC Code only if no one industry description includes the combined activities of the site. Instruction page 7.

A.	B.	C.	D.
3721			

SEC. V I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. Number of form pages submitted: Form IC 2 Form WM

B. Please print: Last name	First name	M.I.	C. Title
Rothwell,	Peter	S.	Associate Counsel

D. Signature: Peter Rothwell

E. Date of signature: 03 (MO.) 27 (DAY) 90 (YR.)

EPA Form Revised

OVER →

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: Falcon Jet Corporation
114 Billy Diehl Road
Teterboro, NJ 07608

EPA ID NO. NJD981491509

DRAFT
8-25-89

U.S. ENVIRONMENTAL PROTECTION AGENCY

1989 Waste Minimization Report

FORM **WM**

WASTE MINIMIZATION

INSTRUCTIONS: Read the detailed instructions beginning on page 9 of the 1989 Waste Minimization Report booklet before completing this form.

Sec. I

A. Waste description (Instruction Page 11): RQ Waste Combustible Liquid NOS (Flammable)
Waste Oil NOS Combustible Liquid (Flammable)
Benzene

B. EPA hazardous waste code (Page 11): D001 F002

C. State hazardous waste code (Page 11): X726 T

D. SIC code (Page 11): 3721

E. Source code (Page 11): A73; A53; A54

F. Form code (Page 12): B2016

G. Origin (Page 12): Code 3; System type M024

H. TRI constituent (Page 12): 3

I. CAS numbers (Page 13): 1. 71-43-2 2. NA 3. NA 4. NA 5. NA

Sec. II

A. Quantity generated in 1988 (Instruction Page 13): 3.5

B. Quantity generated in 1989 (Page 13): 4.738

C. UOM (Page 13): 5

D. Density (Page 14): ☒ 1 lbs/gal ☐ 2 sg

E. Was this waste recycled in 1989? (Page 14): ☐ 1 Yes (CONTINUE TO BOX F) ☒ 2 No (SKIP TO SEC. III)

F. On-site recycling (Page 14): N/A
Quantity recycled on site in 1989:

G. Off-site recycling (Page 14): N/A
Quantity recycled off site in 1989:

Sec. III

A. Activity (Page 14): N/A

B. Other effects (Page 14): N/A ☐ 1 Yes ☐ 2 No

C. Quantity recycled in 1989 due to new activities (Page 14): N/A

D. Activity/Production Index (Page 15): N/A

E. Source Reduction Quantity (Page 16): N/A

Comments:

FalconJet®

February 14, 1991

New Jersey Department of Environmental Protection
Bureau of Revenue
428 East State Street, CN 417
Trenton, New Jersey 08625

Attention: Manifest Section - Annual Reports

SUBJECT: FALCON JET CORPORATION
1990 HAZARDOUS WASTE REPORT
Reference: USEPA Identification (Generator) Number
NJD981491509 (Jet Center)

Dear Sir or Madam:

Enclosed please find 1990 Hazardous Waste Report for the referenced Generator Number which has been completed and duly signed on behalf of the subject corporation.

Enclosed too is a copy of each N.J. State Manifest Document with cover letter forwarded to the NJDEP for each hazardous waste pickup for the referenced site during Year 1990.

Also included is Falcon Jet check No. M009879 in the amount of $200.00 in payment of your fee pursuant to the Certification Form, Page C, Item 6 B.

Please feel free to contact the undersigned should you have any questions regarding the above matter.

Very truly yours,

FALCON JET CORPORATION

By
Peter S. Rothwell
Associate Counsel

PSR:meh
Enclosures
563

Via Certified Mail No. 524056561, Return Receipt Requested.

OFFICE USE ONLY
Ann. Fee _____
RA _____
Date _____
Rec'd By _____

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
HAZARDOUS WASTE GENERATOR ANNUAL REPORT 1990
CERTIFICATION FORM

ITEM 1 USEPA Identification (Generator) Number: NJD981491509 (Jet Center)

ITEM 2 Generator (Company) Name: Falcon Jet Corporation

ITEM 3 Contact Person: George Rege, Frank Youngkin

ITEM 4 Phone Number: (201) 262-0800

ITEM 5 Certification:

I certify that the information given in this annual report is true, accurate and complete.

2/14/91

FALCON JET CORPORATION

By J. Morgan Young
(Print or type name)
Sr. Vice President
Finance and Administration

(Signature)

2/15/91
(Date)

ITEM 6 **Place an X next to the letter that applies:**

A ____ This site (company) manifested less than 1.33 tons of hazardous waste for the calendar year 1990 (**No Fee**)

B _X_ This site (company) manifested 1.33 tons or more of hazardous waste but less than 10 tons of hazardous waste during the calendar year 1990 (**Fee $200**)

C ____ This site (company) manifested 10 tons or more of hazardous waste but less than 100 tons of hazardous waste during the calendar year (**Fee $300**)

D ____ This site (company) manifested 100 tons or more of hazardous waste during the calendar year (**Fee $400**)

ITEM 7 Federal Vendor Identification Number (Tax Identification Number)

22-1978098.

PLEASE SUBMIT CHECK WITH YOUR COMPLETED REPORT.

C

OMB# 2050-0024 Expires 3-31-92

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: Falcon Jet Corporation
113 Billy Diehl Road
Teterboro, NJ 07608
Jet Center

EPA ID NO.: N J D 9 8 1 4 9 1 5 0 9

U.S. ENVIRONMENTAL PROTECTION AGENCY

1990 Hazardous Waste Report

FORM IC

IDENTIFICATION AND CERTIFICATION

INSTRUCTIONS: Read the detailed instructions beginning on page 7 of the 1990 Hazardous Waste Report booklet before completing this form.

SEC. I Site name and location address. Complete items A through H. Check the box ☒ in items A, B, D, E, F, G, and H if same as label; if different, enter corrections. If label is absent, enter information. Instruction page 7.

A. EPA ID No. — Same as label ☒ or →
B. Site/company name — Same as label ☒ or →
C. Has the site name associated with this EPA ID changed since 1987? ☐ 1 Yes ☒ 2 No
D. Street name and number. If not applicable, enter industrial park, building name or other physical location description. — Same as label ☒ or →
E. City, town, village, etc. — Same as label ☒ or →
F. County: Bergen
G. State — Same as label ☒
H. Zip Code — Same as label ☒

SEC. II Mailing address of site. Instruction page 7.

A. Is the mailing address the same as the location address? ☐ 1 Yes (SKIP TO SEC. III) ☒ 2 No (COMPLETE SEC. II)
B. Number and street name of mailing address: Teterboro Airport
C. City, town, village, etc.: Teterboro
D. State: NJ
E. Zip Code: 07608-1047

SEC. III Name, title, and telephone number of the person who should be contacted if questions arise regarding this report. Instruction page 7.

A. Please print: Last name	First name	M.I.	B. Title	C. Telephone
Rothwell,	Peter	S.	Associate Counsel	201 262-0800 Extension 2743

SEC. IV Enter the Standard Industrial Classification (SIC) Code that describes the principal products, group of products, produced or distributed, or the services rendered at the site's physical location. Enter more than one SIC Code only if no one industry description includes the combined activities of the site. Instruction page 8.

A.	B.	C.	D.
3721			

SEC. V I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. Number of form pages submitted — Form IC 2 | Form GM | Form WR | Form P8

B. Please print: Last name	First name	M.I.	C. Title
Rothwell,	Peter	S.	Associate Counsel

D. Signature: Peter S. Rothwell

E. Date of signature: 02 (MO.) 15 (DAY) 90 (YR.)

OVER →

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: Falcon Jet Corporation
113 Billy Diehl Road
Teterboro, NJ 07608
Jet Center

EPA ID NO.: NJD981491509

U.S. ENVIRONMENTAL PROTECTION AGENCY

1990 Hazardous Waste Report

FORM **GM**

WASTE GENERATION AND MANAGEMENT

INSTRUCTIONS: Read the detailed instructions beginning on page 14 of the 1990 Hazardous Waste Report booklet before completing this form.

Sec. I

A. Waste description Instruction Page 15: RQ WASTE COMBUSTIBLE LIQUID NOS (Methyl Ethyl Ketone) NA 1993

B. EPA hazardous waste code Page 15: F005 | NA | NA | NA

C. State hazardous waste code Page 16: N/A

D. SIC code Page 16: 3721

E. Source code Page 16: A21

F. Form code Page 16: B2019

G. Origin Page 18: Code 1 | System type M029

H. TRI constituent Page 17: 2

I. CAS numbers Page 17: 1. NA | 2. NA | 3. NA | 4. NA | 5. NA

Sec. II

A. Quantity generated in 1989 Instruction Page 17: NA

B. Quantity generated in 1990 Page 17: 28199

C. UOM Page 18: 1

D. Density Page 18: ☐ 1 lbs/gal ☐ 2 sg

E. Was this waste treated, disposed or recycled on site or discharged to a sewer/POTW? Page 18: ☐ 1 Yes (CONTINUE TO SYSTEM 1) ☒ 2 No (SKIP TO SEC. III)

SYSTEM 1: N/A
System type Page 18: M
Quantity treated, disposed or recycled in 1990 Page 18:

SYSTEM 2: N/A
System type Page 18: M
Quantity treated, disposed or recycled in 1990 Page 18:

Sec. III

A. Was this waste shipped off site? Instruction Page 19: ☒ 1 Yes (CONTINUE TO BOX B) ☐ 2 No (SKIP TO SEC. IV)

	B. EPA ID No. of facility to which waste was shipped Instruction Page 19	C. System type Page 19	D. Total quantity shipped in 1990 Page 19
Site 1	NJD002182897	M	
Site 2		M	

Sec. IV

A. Waste minimization results in 1990 Instruction Page 20: ☐ 1 Yes (CONTINUE TO BOX B) ☒ 2 No (THIS FORM IS COMPLETE)

B. Activity Page 21	C. Other effects Page 21	D. Quantity recycled in 1990 due to new activities Page 21	E. Activity/Production Index Page 21	F. Source Reduction Quantity Page 22
W / W / W / W	☐ 1 Yes ☐ 2 No			

Comments:

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: Falcon Jet Center
113 Billy Diehl Road
Teterboro, NJ 07608
Jet Center

EPA ID NO.: NJD981491509

U.S. ENVIRONMENTAL PROTECTION AGENCY

1990 Hazardous Waste Report

FORM GM

WASTE GENERATION AND MANAGEMENT

INSTRUCTIONS: Read the detailed instructions beginning on page 14 of the 1990 Hazardous Waste Report booklet before completing this form.

Sec. I

A. Waste description (Instruction Page 15): RQ WASTE COMBUSTIBLE LIQUID NOS NA 1993 (EPA 001) 1011

B. EPA hazardous waste code (Page 15): F001 | NA | NA | NA

C. State hazardous waste code (Page 16): X726

D. SIC code (Page 16): 3721

E. Source code (Page 16): A73

F. Form code (Page 16): B206

G. Origin (Page 16): Code 1; System type M029

H. TRI constituent (Page 17): 3

I. CAS numbers (Page 17): 1. 71-43-2 2. NA 3. NA 4. NA 5. NA

Sec. II

A. Quantity generated in 1989 (Instruction Page 17)	B. Quantity generated in 1990 (Page 17)	C. UOM (Page 18)	D. Density (Page 18)	E. Was this waste treated, disposed or recycled on site or discharged to a sewer/POTW? (Page 18)
6951	4040	1	☐ 1 lbs/gal ☐ 2 sg	☐ 1 Yes (CONTINUE TO SYSTEM 1) ☒ 2 No (SKIP TO SEC. III)

SYSTEM 1: N/A
System type (Page 18): M
Quantity treated, disposed or recycled in 1990 (Page 18):

SYSTEM 2: N/A
System type (Page 18): M
Quantity treated, disposed or recycled in 1990 (Page 18):

Sec. III

A. Was this waste shipped off site? (Instruction Page 19) ☒ 1 Yes (CONTINUE TO BOX B) ☐ 2 No (SKIP TO SEC. IV)

	B. EPA ID No. of facility to which waste was shipped (Instruction Page 19)	C. System type (Page 19)	D. Total quantity shipped in 1990 (Page 19)
Site 1	NJD002182897	M029	4049
Site 2		M	

Sec. IV

A. Waste minimization results in 1990 (Instruction Page 20) ☐ 1 Yes (CONTINUE TO BOX B) ☐ 2 No (THIS FORM IS COMPLETE)

B. Activity (Page 21)	C. Other effects (Page 21)	D. Quantity recycled in 1990 due to new activities (Page 21)	E. Activity/Production Index (Page 21)	F. Source Reduction Quantity (Page 22)
W W W W	☐ 1 Yes ☐ 2 No			

Comments: Benzene is the reportable CAS in jet fuel.

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: Falcon Jet Corporation
113 Billy Diehl Road
Teterboro, NJ 07608
Jet Center

EPA ID NO.: NJD981491509

U.S. ENVIRONMENTAL PROTECTION AGENCY

1990 Hazardous Waste Report

N/A

FORM WR

WASTE RECEIVED FROM OFF SITE

INSTRUCTIONS: Read the detailed instructions beginning on page 27 of the 1990 Hazardous Waste Report booklet before completing this form.

Waste 1

A. Description of hazardous waste — Instruction Page 27

B. EPA hazardous waste code — Page 28

C. State hazardous waste code — Page 28

D. Off-site source EPA ID No. — Page 28

E. Quantity received in 1990 — Page 28

F. UOM — Page 28

G. Density — Page 28 — ☐ 1 lbs/gal ☐ 2 sg

H. Waste form code — Page 29 — B

I. System type — Page 29 — M

Waste 2

A. Description of hazardous waste — Instruction Page 27

B. EPA hazardous waste code — Page 28

C. State hazardous waste code — Page 28

D. Off-site source EPA ID No. — Page 28 — ☐ Check if ID same as in Waste 1 — or ->

E. Quantity received in 1990 — Page 28

F. UOM — Page 28

G. Density — Page 28 — ☐ 1 lbs/gal ☐ 2 sg

H. Waste form code — Page 29 — B

I. System type — Page 29 — M

Waste 3

A. Description of hazardous waste — Instruction Page 27

B. EPA hazardous waste code — Page 28

C. State hazardous waste code — Page 28

D. Off-site source EPA ID No. — Page 28 — ☐ Check if ID same as in Waste 2 — or ->

E. Quantity received in 1990 — Page 28

F. UOM — Page 28

G. Density — Page 28 — ☐ 1 lbs/gal ☐ 2 sg

H. Waste form code — Page29 — B

I. System type — Page 29 — M

Comments:

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: Falcon Jet Corporation
113 Billy Diehl Road
Teterboro, NJ 07608
Jet Center

EPA ID NO.: NJD981491599

U.S. ENVIRONMENTAL PROTECTION AGENCY

1990 Hazardous Waste Report

N/A

FORM PS

WASTE TREATMENT, DISPOSAL, OR RECYCLING PROCESS SYSTEMS

INSTRUCTIONS: Read the detailed instructions beginning on page 30 of the 1990 Hazardous Waste Report booklet before completing this form.

Sec. I

A. Waste treatment, disposal or recycling system description
Instruction Page 36

B. System type Page 36	C. Regulatory status Page 36	D. Operational status Page 37	E. Unit types Page 37
M			

Sec. II

A. 1990 influent quantity Instruction Page 38

		UOM	Density
Total			.
RCRA			☐ 1 lbs/gal ☐ 2 sg

B. Maximum operational capacity Page 39

Total	
RCRA	

C. 1990 liquid effluent quantity Page 40

		UOM	Density
Total			.
RCRA			☐ 1 lbs/gal ☐ 2 sg

D. 1990 solid/sludge residual quantity Page 41

		UOM	Density
Total			.
RCRA			☐ 1 lbs/gal 2 ☐ sg

E. Limitations on capacity Page 41	F. Commercial availability code Page 41	G. Percent capacity commercially available Page 42
1. 2. 3.		%

Sec. III

A. Planned change in maximum operational capacity Instruction Page 42

☐ 1 Yes (CONTINUE TO BOX B)
☐ 2 No (THIS FORM IS COMPLETE)

B. New maximum operational capacity Page 42

		UOM
Total		
RCRA		

C. Planned year of change Page 43	D. Future commercial availability code Page 43	E. Percent future capacity commercially available Page 43
19		%

Comments:

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: Falcon Jet Corporation
113 Billy Diehl Road
Teterboro, NJ 07608
Jet Center

EPA ID NO.: NJD981491509

U.S. ENVIRONMENTAL PROTECTION AGENCY

1990 Hazardous Waste Report

FORM 01

OFF-SITE IDENTIFICATION

INSTRUCTIONS: Read the detailed instructions on the back of this page before completing this form.

Site 1

A. EPA ID No. of off-site installation or transporter: ILD051060408

B. Name of off-site installation or transporter: Safety Kleen Corporation

C. Handler type (CHECK ALL THAT APPLY):
- ☐ Generator
- ☒ Transporter
- ☐ TSDR

D. Address of off-site installation:
Street: 777 Big Timber Road
City: Elgin State: IL Zip Code: 60120-

Site 2

A. EPA ID No. of off-site installation or transporter: NJD002182897

B. Name of off-site installation or transporter: Safety Kleen Corporation

C. Handler type (CHECK ALL THAT APPLY):
- ☐ Generator
- ☐ Transporter
- ☒ TSDR

D. Address of off-site installation:
Street: 1200 Sylvan Street
City: Linden State: NJ Zip Code: 07036-

Site 3

A. EPA ID No. of off-site installation or transporter:

B. Name of off-site installation or transporter:

C. Handler type (CHECK ALL THAT APPLY):
- ☐ Generator
- ☐ Transporter
- ☐ TSDR

D. Address of off-site installation:
Street:
City: State: Zip Code:-

Site 4

A. EPA ID No. of off-site installation or transporter:

B. Name of off-site installation or transporter:

C. Handler type (CHECK ALL THAT APPLY):
- ☐ Generator
- ☐ Transporter
- ☐ TSDR

D. Address of off-site installation:
Street:
City: State: Zip Code:-

Site 5

A. EPA ID No. of off-site installation or transporter:

B. Name of off-site installation or transporter:

C. Handler type (CHECK ALL THAT APPLY):
- ☐ Generator
- ☐ Transporter
- ☐ TSDR

D. Address of off-site installation:
Street:
City: State: Zip Code:-

Comments:

FalconJet®

February 14, 1991

New Jersey Department of Environmental Protection
Bureau of Revenue
428 East State Street, CN 417
Trenton, New Jersey 08625

Attention: Manifest Section - Annual Reports

SUBJECT: FALCON JET CORPORATION
1990 HAZARDOUS WASTE REPORT
Reference: USEPA Identification (Generator) Number
NJD134869551 (Hydraulic Shop)

Dear Sir or Madam:

Enclosed please find 1990 Hazardous Waste Report for the above referenced Generator Number which has been completed and duly signed on behalf of the subject corporation.

Enclosed too is a copy of each N.J. State Manifest Document with cover letter forwarded to the NJDEP for each hazardous waste pickup for the referenced site during Year 1990.

Also included is Falcon Jet check No. M009878 in the amount of $200.00 in payment of your fee pursuant to the Certification Form, Page C, Item 6 B.

Please feel free to contact the undersigned should you have any questions regarding the above matter.

Very truly yours,

FALCON JET CORPORATION

By
Peter S. Rothwell
Associate Counsel

PSR:meh
Enclosures
564

Via Certified Mail No. 524056560, Return Receipt Requested.

OFFICE USE ONLY
Ann. Fee _____
RA _____
Date _____
Rec'd By _____

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
HAZARDOUS WASTE GENERATOR ANNUAL REPORT 1990
CERTIFICATION FORM

ITEM 1 USEPA Identification (Generator) Number: NJD 134869551 (Falcon Jet Hydraulic Shop)

ITEM 2 Generator (Company) Name: Falcon Jet Corporation

ITEM 3 Contact Person: Gerry Sabella

ITEM 4 Phone Number: (201) 262-0800

ITEM 5 Certification:

I certify that the information given in this annual report is true, accurate and complete.

FALCON JET CORPORATION

By J. Morgan Young
(Print or type name)
Sr. Vice President
Finance and Administration

(Signature)

2/15/91
(Date)

DR 2/14/91

ITEM 6 **Place an X next to the letter that applies:**

A ____ This site (company) manifested less than 1.33 tons of hazardous waste for the calendar year 1990 **(No Fee)**

B _X_ This site (company) manifested 1.33 tons or more of hazardous waste but less than 10 tons of hazardous waste during the calendar year 1990 **(Fee $200)**

C ____ This site (company) manifested 10 tons or more of hazardous waste but less than 100 tons of hazardous waste during the calendar year **(Fee $300)**

D ____ This site (company) manifested 100 tons or more of hazardous waste during the calendar year **(Fee $400)**

ITEM 7 Federal Vendor Identification Number (Tax Identification Number)

22-1978098.

PLEASE SUBMIT CHECK WITH YOUR COMPLETED REPORT.

C

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: Falcon Jet Corporation
90 Moonachie Avenue
Teterboro, NJ 07608

EPA ID NO.: N J D 1 3 4 8 6 9 5 5 1

Falcon Jet Hydraulic Shop

U.S. ENVIRONMENTAL PROTECTION AGENCY

1990 Hazardous Waste Report

FORM IC

IDENTIFICATION AND CERTIFICATION

INSTRUCTIONS: Read the detailed instructions beginning on page 7 of the 1990 Hazardous Waste Report booklet before completing this form.

SEC. I Site name and location address. Complete items A through H. Check the box ☒ in items A, B, D, E, F, G, and H if same as label; if different, enter corrections. If label is absent, enter information. Instruction page 7.

A. EPA ID No. Same as label ☒ or ——→
B. Site/company name Same as label ☒ or ——→
C. Has the site name associated with this EPA ID changed since 1987? ☐ 1 Yes ☒ 2 No
D. Street name and number. If not applicable, enter industrial park, building name or other physical location description. Same as label ☒ or ——→
E. City, town, village, etc. Same as label ☒ or ——→
F. County: Bergen
G. State Same as label ☒
H. Zip Code Same as label ☒

SEC. II Mailing address of site. Instruction page 7.

A. Is the mailing address the same as the location address? ☐ 1 Yes (SKIP TO SEC. III) ☒ 2 No (COMPLETE SEC. II)
B. Number and street name of mailing address: Teterboro Airport
C. City, town, village, etc.: Teterboro
D. State: NJ
E. Zip Code: 07608-1047

SEC. III Name, title, and telephone number of the person who should be contacted if questions arise regarding this report. Instruction page 7.

A. Please print: Last name	First name	M.I.	B. Title	C. Telephone
Rothwell,	Peter	S.	Associate Counsel	201 262-0800 Extension 2743

SEC. IV Enter the Standard Industrial Classification (SIC) Code that describes the principal products, group of products, produced or distributed, or the services rendered at the site's physical location. Enter more than one SIC Code only if no one industry description includes the combined activities of the site. Instruction page 8.

A.	B.	C.	D.
3721			

SEC. V I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. Number of form pages submitted: Form IC 2 | Form GM | Form WR | Form PS

B. Please print: Last name	First name	M.I.	C. Title
Rothwell,	Peter	S.	Associate Counsel

D. Signature: Peter S. Rothwell
E. Date of signature: 02 (MO.) 15 (DAY) 91 (YR.)

BEFORE COPYING FORM, ATTACH SITE ... ITIFICATION LABEL OR ENTER:

SITE NAME: Falcon Jet Corporation
90 Moonachie Avenue
Teterboro, NJ 07608

EPA ID NO.: NJD134869551

Falcon Jet Hydraulic Shop

U.S. ENVIRONMENTAL PROTECTION AGENCY

1990 Hazardous Waste Report

FORM **GM**

WASTE GENERATION AND MANAGEMENT

INSTRUCTIONS: Read the detailed instructions beginning on page 14 of the 1990 Hazardous Waste Report booklet before completing this form.

Sec. I

A. Waste description (Instruction Page 15): RQ WASTE PAINT RELATED MATERIAL FLAMMABLE LIQUID UN1263 (F005) (ERG #26) 1167

B. EPA hazardous waste code (Page 15): F005 | N/A | N/A | N/A

C. State hazardous waste code (Page 16): N/A

D. SIC code (Page 16): 3721

E. Source code (Page 16): A211

F. Form code (Page 16): B209

G. Origin (Page 16): Code 1 | System type M029

H. TRI constituent (Page 17): 2

I. CAS numbers (Page 17): 1. N/A 2. N/A 3. N/A 4. N/A 5. N/A

Sec. II

A. Quantity generated in 1989 (Instruction Page 17): N/A

B. Quantity generated in 1990 (Page 17): 376

C. UOM (Page 18): 1

D. Density (Page 18): ☐ 1 lbs/gal ☐ 2 sg

E. Was this waste treated, disposed or recycled on site or discharged to a sewer/POTW? (Page 18): ☐ 1 Yes (CONTINUE TO SYSTEM 1) ☒ 2 No (SKIP TO SEC. III)

SYSTEM 1: N/A
System type (Page 18):
Quantity treated, disposed or recycled in 1990 (Page 18):

SYSTEM 2: N/A
System type (Page 18):
Quantity treated, disposed or recycled in 1990 (Page 18):

Sec. III

A. Was this waste shipped off site? (Instruction Page 19): ☒ 1 Yes (CONTINUE TO BOX B) ☐ 2 No (SKIP TO SEC. IV)

	B. EPA ID No. of facility to which waste was shipped (Instruction Page 19)	C. System type (Page 19)	D. Total quantity shipped in 1990 (Page 19)
Site 1	NJD002182897	M029	376
Site 2		M	

Sec. IV

A. Waste minimization results in 1990 (Instruction Page 20): ☐ 1 Yes (CONTINUE TO BOX B) ☒ 2 No (THIS FORM IS COMPLETE)

B. Activity (Page 21)	C. Other effects (Page 21)	D. Quantity recycled in 1990 due to new activities (Page 21)	E. Activity/Production Index (Page 21)	F. Source Reduction Quantity (Page 22)
W / W / W / W	☐ 1 Yes ☐ 2 No			

Comments:

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: Falcon Jet Corporation
90 Moonachie Avenue
Teterboro, NJ 07608

EPA ID NO.: NJD134869551

Falcon Jet Hydraulic Shop

U.S. ENVIRONMENTAL PROTECTION AGENCY

1990 Hazardous Waste Report

FORM **GM**

WASTE GENERATION AND MANAGEMENT

INSTRUCTIONS: Read the detailed instructions beginning on page 14 of the 1990 Hazardous Waste Report booklet before completing this form.

Sec. I

A. Waste description Instruction Page 15: RQ WASTE COMBUSTIBLE LIQUID NOS (011) NA 1993 (F001) (ERG #27) 3038

B. EPA hazardous waste code Page 15: F001 | NA | NA | NA

C. State hazardous waste code Page 16: X726

D. SIC code Page 16: 3721

E. Source code Page 16: A73

F. Form code Page 16: B206

G. Origin Page 16: Code 1 | System type M029

H. TRI constituent Page 17: 3

I. CAS numbers Page 17: 1. 71-43-2 | 2. NA | 3. NA | 4. NA | 5. NA

Sec. II

A. Quantity generated in 1989 Instruction Page 17: 600

B. Quantity generated in 1990 Page 17: 3179

C. UOM Page 18: 1

D. Density Page 18: . | ☐ 1 lbs/gal ☐ 2 sg

E. Was this waste treated, disposed or recycled on site or discharged to a sewer/POTW? Page 18: ☐ 1 Yes (CONTINUE TO SYSTEM 1) ☒ 2 No (SKIP TO SEC. III)

SYSTEM 1: N/A
System type Page 18: M
Quantity treated, disposed or recycled in 1990 Page 18:

SYSTEM 2: N/A
System type Page 18: M
Quantity treated, disposed or recycled in 1990 Page 18:

Sec. III

A. Was this waste shipped off site? Instruction Page 19: ☒ 1 Yes (CONTINUE TO BOX B) ☐ 2 No (SKIP TO SEC. IV)

	B. EPA ID No. of facility to which waste was shipped Instruction Page 19	C. System type Page 19	D. Total quantity shipped in 1990 Page 19
Site 1	NJD002182897	M029	3179
Site 2		M	

Sec. IV

A. Waste minimization results in 1990 Instruction Page 20: ☐ 1 Yes (CONTINUE TO BOX B) ☒ 2 No (THIS FORM IS COMPLETE)

B. Activity Page 21	C. Other effects Page 21	D. Quantity recycled in 1990 due to new activities Page 21	E. Activity/Production Index Page 21	F. Source Reduction Quantity Page 22
W / W / W / W	☐ 1 Yes ☐ 2 No		.	

Comments: Benzene is the reportable CAS in jet fuel.

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: Falcon Jet Corporation
90 Moonachie Avenue
Teterboro, NJ 07608

EPA ID NO.: NJD134869551

Falcon Jet Hydraulic Shop

U.S. ENVIRONMENTAL PROTECTION AGENCY

1990 Hazardous Waste Report

FORM **GM**

WASTE GENERATION AND MANAGEMENT

INSTRUCTIONS: Read the detailed instructions beginning on page 14 of the 1990 Hazardous Waste Report booklet before completing this form.

Sec. I

A. Waste description (Instruction Page 15): RQ WASTE COMBUSTIBLE LIQUID, NOS (PETROLEUM DISTILLATE) NA 1993 (F002) (ERG #27)

B. EPA hazardous waste code (Page 15): F002

C. State hazardous waste code (Page 16): X726

D. SIC code (Page 16): 3721

E. Source code (Page 16): A73

F. Form code (Page 16): B2106

G. Origin (Page 16) Code: 1
System type: M029

H. TRI constituent (Page 17): 2

I. CAS numbers (Page 17): 1. NA 2. NA 3. NA 4. NA 5. NA

Sec. II

A. Quantity generated in 1989 (Instruction Page 17): 300

B. Quantity generated in 1990 (Page 17): 888

C. UOM (Page 18): 1

D. Density (Page 18): ☐ 1 lbs/gal ☐ 2 sg

E. Was this waste treated, disposed or recycled on site or discharged to a sewer/POTW? (Page 18)
☐ 1 Yes (CONTINUE TO SYSTEM 1)
☒ 2 No (SKIP TO SEC. III)

SYSTEM 1: N/A
System type (Page 18): M
Quantity treated, disposed or recycled in 1990 (Page 18):

SYSTEM 2: N/A
System type (Page 18): M
Quantity treated, disposed or recycled in 1990 (Page 18):

Sec. III

A. Was this waste shipped off site? (Instruction Page 19)
☒ 1 Yes (CONTINUE TO BOX B)
☐ 2 No (SKIP TO SEC. IV)

	B. EPA ID No. of facility to which waste was shipped (Instruction Page 19)	C. System type (Page 19)	D. Total quantity shipped in 1990 (Page 19)
Site 1	NJD002189977	M029	8888
Site 2		M	

Sec. IV

A. Waste minimization results in 1990 (Instruction Page 20)
☐ 1 Yes (CONTINUE TO BOX B)
☒ 2 No (THIS FORM IS COMPLETE)

B. Activity (Page 21)	C. Other effects (Page 21)	D. Quantity recycled in 1990 due to new activities (Page 21)	E. Activity/Production Index (Page 21)	F. Source Reduction Quantity (Page 22)
W W W W	☐ 1 Yes ☐ 2 No			

Comments:

BEFORE COPYING FORM, ATTACH SITE NOTIFICATION LABEL OR ENTER:

SITE NAME: Falcon Jet Corporation
90 Moonachie Avenue
Teterboro, NJ 07608

EPA ID NO.: NJD134869551

Falcon Jet Hydraulic Shop

U.S. ENVIRONMENTAL PROTECTION AGENCY

1990 Hazardous Waste Report

N/A

FORM WR

WASTE RECEIVED FROM OFF SITE

INSTRUCTIONS: Read the detailed instructions beginning on page 27 of the 1990 Hazardous Waste Report booklet before completing this form.

Waste 1

A. Description of hazardous waste — Instruction Page 27

B. EPA hazardous waste code — Page 28

C. State hazardous waste code — Page 28

D. Off-site source EPA ID No. — Page 28

E. Quantity received in 1990 — Page 28

F. UOM — Page 28

G. Density — Page 28 — ☐ 1 lbs/gal ☐ 2 sg

H. Waste form code — Page 29 — B

I. System type — Page 29 — M

Waste 2

A. Description of hazardous waste — Instruction Page 27

B. EPA hazardous waste code — Page 28

C. State hazardous waste code — Page 28

D. Off-site source EPA ID No. — Page 28 — ☐ Check if ID same as in Waste 1 — or ->

E. Quantity received in 1990 — Page 28

F. UOM — Page 28

G. Density — Page 28 — ☐ 1 lbs/gal ☐ 2 sg

H. Waste form code — Page 29 — B

I. System type — Page 29 — M

Waste 3

A. Description of hazardous waste — Instruction Page 27

B. EPA hazardous waste code — Page 28

C. State hazardous waste code — Page 28

D. Off-site source EPA ID No. — Page 28 — ☐ Check if ID same as in Waste 2 — or ->

E. Quantity received in 1990 — Page 28

F. UOM — Page 28

G. Density — Page 28 — ☐ 1 lbs/gal ☐ 2 sg

H. Waste form code — Page29 — B

I. System type — Page 29 — M

Comments:

BEFORE COPYING FORM, ATTACH SITE /TIFICATION LABEL OR ENTER:

SITE NAME: Falcon Jet Corporation
90 Moonachie Avenue
Teterboro, NJ 07608

EPA ID NO.: NJD113418615511

Falcon Jet Hydraulic Shop

U.S. ENVIRONMENTAL PROTECTION AGENCY

1990 Hazardous Waste Report

N/A

FORM **PS**

WASTE TREATMENT, DISPOSAL, OR RECYCLING PROCESS SYSTEMS

INSTRUCTIONS: Read the detailed instructions beginning on page 30 of the 1990 Hazardous Waste Report booklet before completing this form.

Sec. I

A. Waste treatment, disposal or recycling system description
Instruction Page 38

B. System type Page 36	C. Regulatory status Page 36	D. Operational status Page 37	E. Unit types Page 37
M			

Sec. II

A. 1990 influent quantity Instruction Page 38

		UOM	Density
Total			.
RCRA			☐ 1 lbs/gal ☐ 2 sg

B. Maximum operational capacity Page 39

Total	
RCRA	

C. 1990 liquid effluent quantity Page 40

		UOM	Density
Total			.
RCRA			☐ 1 lbs/gal ☐ 2 sg

D. 1990 solid/sludge residual quantity Page 41

		UOM	Density
Total			.
RCRA			☐ 1 lbs/gal 2 ☐ sg

E. Limitations on capacity Page 41
1. 2. 3.

F. Commercial availability code Page 41

G. Percent capacity commercially available Page 42
%

Sec. III

A. Planned change in maximum operational capacity Instruction Page 42
☐ 1 Yes (CONTINUE TO BOX B)
☐ 2 No (THIS FORM IS COMPLETE)

B. New maximum operational capacity Page 42

		UOM
Total		
RCRA		

C. Planned year of change Page 43
19

D. Future commercial availability code Page 43

E. Percent future capacity commercially available Page 43
%

Comments:

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: Falcon Jet Corporation
90 Moonachie Avenue
Teterboro, NJ 07608
Falcon Jet Hydraulic Shop

EPA ID NO. NJD134861955 1

U.S. ENVIRONMENTAL PROTECTION AGENCY

1990 Hazardous Waste Report

FORM 01

OFF-SITE IDENTIFICATION

INSTRUCTIONS: Read the detailed instructions on the back of this page before completing this form.

Site 1

A. EPA ID No. of off-site installation or transporter: ILD051061048

B. Name of off-site installation or transporter: Safety Kleen Corporation

C. Handler type (CHECK ALL THAT APPLY)
- ☐ Generator
- ☒ Transporter
- ☐ TSDR

D. Address of off-site installation
Street: 777 Big Timber Road
City: Elgin State: IL Zip Code: 60120-

Site 2

A. EPA ID No. of off-site installation or transporter: NJD002128897

B. Name of off-site installation: Safety Kleen Corporation

C. Handler type (CHECK ALL THAT APPLY)
- ☐ Generator
- ☐ Transporter
- ☒ TSDR

D. Address of off-site installation
Street: 1200 Sylvan Street
City: Linden State: NJ Zip Code: 07036-

Site 3

A. EPA ID No. of off-site installation or transporter:

B. Name of off-site installation or transporter:

C. Handler type (CHECK ALL THAT APPLY)
- ☐ Generator
- ☐ Transporter
- ☐ TSDR

D. Address of off-site installation
Street:
City: State: Zip Code:

Site 4

A. EPA ID No. of off-site installation or transporter:

B. Name of off-site installation or transporter:

C. Handler type (CHECK ALL THAT APPLY)
- ☐ Generator
- ☐ Transporter
- ☐ TSDR

D. Address of off-site installation
Street:
City: State: Zip Code:

Site 5

A. EPA ID No. of off-site installation or transporter:

B. Name of off-site installation or transporter:

C. Handler type (CHECK ALL THAT APPLY)
- ☐ Generator
- ☐ Transporter
- ☐ TSDR

D. Address of off-site installation
Street:
City: State: Zip Code:

Comments:

Exhibit D

Please print or type. (Form designed for use on elite itch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. / Manifest Document No.: NJD981491509

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
FALCON JET
113 BILLY DIEHL ROAD
TETERBORO NJ 07808

4. Generator's Phone (201) 288-5300

A. State Manifest Document Number: NJA05956285

B. State Generator's ID: SAME

5. Transporter 1 Company Name: CONTINENTAL CARRIERS CORP

6. US EPA ID Number: NJD990720658

C. State Transporter's ID: NJDEPS 5771

7. Transporter 2 Company Name

8. US EPA ID Number

D. Transporter's Phone: 201 727-1188

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN CORP
1200 SYLVAN STREET
LINDEN, N.J. 07036

10. US EPA ID Number: NJD000218897

G. State Facility's ID

H. Facility's Phone: 201 862-2000

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	WASTE OIL NOS COMBUSTABLE LIQUID (X726) NA1270	X	018	DM	990.	G	X 7* 2 6
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Jet Fuel 65 %
Oil 30 %
Water 5 %

K. Handling Codes for Wastes Listed Above: T 5 0

15. Special Handling Instructions and Additional Information
A. 015117 DD

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: GEORGE REOE — Signature: [signature] — Date: Month 8 Day 10 Year 87

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Edmund H Petrosky — Signature: [signature] — Date: Month 8 Day 13 Year 87

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Date: Month Day Year

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290 6

ORIGINAL - RETURN TO GENERATOR

GENERATOR

INSTRUCTIONS FOR COMPLETION OF THIS FORM, REFER CODE OF FEDERAL REGULATIONS, 40, PART 262.20.

Environmental Protection Agency, Office of Management and Budget, Washington, DC 20503.

CONTINENTAL CARRIERS CORP.

504 Raritan Street, Sayreville, New Jersey 08872
Telephone (201) 727-1188

B/L # 76882

SHIPPER ADDRESS

CONSIGNEE ADDRESS

DATE	TRACTOR NO.	TRAILER NO.	DRIVER	REMARKS	SHIPPING ORDER NO.
7-10-97	9				

NO. UNITS	PRODUCT	WEIGHT	RATE	AMOUNT
18 lm	Dist Oil NO2	GROSS TARE NET		

TIME IN ORIGIN	TIME OUT ORIGIN	TOTAL TIME	DEMURRAGE
11:00	11:30	HRS.	HRS.
TIME IN DEST.	TIME OUT DEST.	TOTAL TIME	DEMURRAGE
		HRS.	HRS.

REASON FOR DELAY AT ORIGIN

VERIFIED BY:

TOTAL AMOUNT

REASON FOR DELAY AT DESTINATION

VERIFIED BY:

MERCHANDISE RECEIVED IN GOOD ORDER

FIRM NAME | DATE | PER

VHW-001 (REV. 9/86)

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-88

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: NJD134867551 — Manifest Document No.:
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: FALCON JET CORPORATION, 90 Moonachie Ave., Moonachie, New Jersey 07608
4. Generator's Phone (201) 288-5300

A. State Manifest Document Number: NJA0426703
B. State Generator's ID: NJD134869551 (GTS)

5. Transporter 1 Company Name: Continental Carriers Corp.
6. US EPA ID Number: NJD990720658

C. State Trans. ID: ~~NJD990720658~~ NJ DEP S 577

7. Transporter 2 Company Name:
8. US EPA ID Number:

D. Transporter's Phone (201) 727-1188
E. State Trans. ID:
F. Transporter's Phone ( )
G. State Facility's ID:
H. Facility's Phone (201) 862-2000

9. Designated Facility Name and Site Address: SAFETY KLEEN, 600 Sylvan Street, Linden, New Jersey 07036
10. US EPA ID Number: NJD002182897

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ Waste Flammable Liquid NOS(D001) UN1993 PIN 015674-FD		002	DM	100	01	D001
b. RQ Waste Flammable Liquid NOS(F002) Flammable Liquid UN 1993 PIN015698-HD		001	DM	50	01	F002
c.						
d.						

J. Additional Descriptions for Materials Listed Above
a. VARSOL 90%, oil/grease 10%
b. III Trichloroethane 80%, Mineral oil 20%
c.
d.

K. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment, OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Grand Sabella — Signature: [signature] — Month Day Year: 09 01 87

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Edmund H Petrosky — Signature: [signature] — Month Day Year: 06 01 89

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Month Day Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: — Signature: — Month Day Year:

GENERATOR / TRANSPORTER / FACILITY

NJA0426703

EPA Form 8700-22 (Rev. 9-86) Previous editions are obsolete.

SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

VHW-001 (REV. 9/86)

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No 2050-0039 Expires 9-30-88

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: NJD134867551 — Manifest Document No.
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address: FALCON JET CORPORATION, 90 Hoomachie Ave., Hoomachie, New Jersey 07608
4. Generator's Phone (201) 288-5300

A. State Manifest Document Number: NJA 0426713

B. State Generator's ID: NJD134869551 (GTS)

5. Transporter 1 Company Name: Continental Carriers Corp.
6. US EPA ID Number: NJD990720658

C. State Trans. ID: ~~NJD990720658~~ NJ DEP S 577

7. Transporter 2 Company Name:
8. US EPA ID Number:

D. Transporter's Phone (201) 727-1188

E. State Trans. ID:

9. Designated Facility Name and Site Address: SAFETY KLEEN, 1200 Sylvan Street, Linden, New Jersey 07036
10. US EPA ID Number: NJD002182897

F. Transporter's Phone ( )

G. State Facility's ID:

H. Facility's Phone (201) 862-2000

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ Waste Flammable Liquid NOS(D001) UN1993 PIN 015674-FD		002	DM	100		D001
b. RQ Waste Flammable Liquid NOS(F002) Flammable Liquid UN1993 PIN015698-HD		001	DM	50		F002
c.						
d.						

J. Additional Descriptions for Materials Listed Above

a. VARSOL 90%
oil/grease 10%
c.

b. III Trichloroethane 80%
Mineral oil 20%
d.

K. Handling Codes for Wastes Listed Above

a. c.
b. d.

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Gerard Sabella — Signature: [signature] — Month Day Year: 8 9 1 7

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Edmund H Petrosky — Signature: [signature] — Month Day Year: 8 6 0 1 8 9

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Month Day Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19

Printed/Typed Name: — Signature: — Month Day Year:

GENERATOR — TRANSPORTER — FACILITY

NJA0426713

EPA Form 8700-22 (Rev. 9-86) Previous editions are obsolete

7 — GENERATOR MAIL TO GENERATOR STATE

SIGNATURE AND INFORMATION MUST BE LEGIBLE ON ALL COPIES

cc: George Rege Ed Hope J. Vislocky

Please print or type with ELITE type (12 chars per inch) in the unshaded areas only

Form Approved. OMB No. 2050-0028. Expires 9-30-88
GSA No. 0246-EPA-GT

United States Environmental Protection Agency
Washington, DC 20460

EPA Notification of Hazardous Waste Activity

Please refer to the *Instructions for Filing Notification* before completing this form. The information requested here is required by law (*Section 3010 of the Resource Conservation and Recovery Act*).

For Official Use Only

Comments

Installation's EPA ID Number	Approved	Date Received (yr. mo. day)
NJD 981491509 I/A C 1		

I. Name of Installation

FALCON JET CORPORATION

II. Installation Mailing Address

Street or P.O. Box: TETERBORO AIRPORT

City or Town	State	ZIP Code
TETERBORO	NJ	07608

III. Location of Installation

Street or Route Number: 113 BILLY DIEHL ROAD

City or Town	State	ZIP Code
TETERBORO	NJ	07608

IV. Installation Contact

Name and Title (last, first, and job title)	Phone Number (area code and number)
GEORGE REGE	2012887312

V. Ownership

A. Name of Installation's Legal Owner	B. Type of Ownership (enter code)
FALCON JET CORP.	Corporation

VI. Type of Regulated Waste Activity (*Mark 'X' in the appropriate boxes. Refer to instructions.*)

A. Hazardous Waste Activity

- [X] 1a. Generator
- [ ] 1b. Less than 1,000 kg/mo.
- [ ] 2. Transporter
- [ ] 3. Treater/Storer/Disposer
- [ ] 4. Underground Injection
- [ ] 5. Market or Burn Hazardous Waste Fuel (*enter 'X' and mark appropriate boxes below*)
  - [ ] a. Generator Marketing to Burner
  - [ ] b. Other Marketer
  - [ ] c. Burner

B. Used Oil Fuel Activities

- [ ] 6. Off-Specification Used Oil Fuel (*enter 'X' and mark appropriate boxes below*)
  - [X] a. Generator Marketing to Burner
  - [ ] b. Other Marketer
  - [ ] c. Burner
- [ ] 7. Specification Used Oil Fuel Marketer (*or On site Burner*) Who First Claims the Oil Meets the Specification

VII. Waste Fuel Burning: Type of Combustion Device (*enter 'X' in all appropriate boxes to indicate type of combustion device(s) in which hazardous waste fuel or off-specification used oil fuel is burned. See instructions for definitions of combustion devices.*)

- [ ] A. Utility Boiler
- [ ] B. Industrial Boiler
- [ ] C. Industrial Furnace

VIII. Mode of Transportation (*transporters only — enter 'X' in the appropriate box(es)*)

- [ ] A. Air
- [ ] B. Rail
- [X] C. Highway
- [ ] D. Water
- [ ] E. Other (*specify*)

IX. First or Subsequent Notification

Mark 'X' in the appropriate box to indicate whether this is your installation's first notification of hazardous waste activity or a subsequent notification. If this is not your first notification, enter your installation's EPA ID Number in the space provided below.

- [X] A. First Notification
- [ ] B. Subsequent Notification (*complete item C*)

C. Installation's EPA ID Number

ID	or Official Use Only		
C		T/A	C
W			1

X. Description of Hazardous Wastes *(continued from front)*

A. Hazardous Wastes from Nonspecific Sources. Enter the four-digit number from 40 *CFR* Part 261.31 for each listed hazardous waste from nonspecific sources your installation handles. Use additional sheets if necessary.

1	2	3	4	5	6
D001	X001	U226			
7	**8**	**9**	**10**	**11**	**12**

B. Hazardous Wastes from Specific Sources. Enter the four-digit number from 40 *CFR* Part 261.32 for each listed hazardous waste from specific sources your installation handles. Use additional sheets if necessary.

13	14	15	16	17	18
19	**20**	**21**	**22**	**23**	**24**
25	**26**	**27**	**28**	**29**	**30**

C. Commercial Chemical Product Hazardous Wastes. Enter the four-digit number from 40 *CFR* Part 261.33 for each chemical substance your installation handles which may be a hazardous waste. Use additional sheets if necessary.

31	32	33	34	35	36
37	**38**	**39**	**40**	**41**	**42**
43	**44**	**45**	**46**	**47**	**48**

D. Listed Infectious Wastes. Enter the four-digit number from 40 *CFR* Part 261.34 for each hazardous waste from hospitals, veterinary hospitals, or medical and research laboratories your installation handles. Use additional sheets if necessary.

49	50	51	52	53	54

E. Characteristics of Nonlisted Hazardous Wastes. Mark 'X' in the boxes corresponding to the characteristics of nonlisted hazardous wastes your installation handles. *(See 40 CFR Parts 261.21 — 261.24)*

☐ 1. Ignitable *(D001)* ☐ 2. Corrosive *(D002)* ☐ 3. Reactive *(D003)* ☐ 4. Toxic *(D000)*

XI. Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Signature	Name and Official Title *(type or print)*	Date Signed
[signature]	Rudy Bioletti, Director	21 July 86

EPA Form 8700-12 (Rev. 11-85) Reverse

Hydraulic Shop
Falcon Jet Warehouse
Falcon Jet Corporation

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

J. VISLOCKY

Form Approved. OMB No. 2050-0028. Expires 9-30-88. GSA No. 0246-EPA-OT

United States Environmental Protection Agency
Washington, DC 20460

EPA Notification of Hazardous Waste Activity

Please refer to the *Instructions for Filing Notification* before completing this form. The information requested here is required by law (*Section 3010 of the Resource Conservation and Recovery Act*).

For Official Use Only

Comments

C C

Installation's EPA ID Number	Approved	Date Received (yr. mo. day)
C F NJD134869551 T/A C 1		

I. Name of Installation

FALCON JET CORPORATION

II. Installation Mailing Address

Street or P.O. Box

C 3 TETERBORO AIRPORT

City or Town | State | ZIP Code

C 4 TETERBORO | NJ | 07608

III. Location of Installation

Street or Route Number

C 5 90 MOONACHIE AVENUE

City or Town | State | ZIP Code

C 6 MOONACHIE | NJ | 07074

IV. Installation Contact

Name and Title (*last, first, and job title*) | Phone Number (*area code and number*)

C 2 GERRY SABELLA | 201 288 7265

V. Ownership

A. Name of Installation's Legal Owner | B. Type of Ownership (*enter code*)

C R FALCON JET CORP. | Corporation

VI. Type of Regulated Waste Activity (*Mark 'X' in the appropriate boxes. Refer to instructions.*)

A. Hazardous Waste Activity

- [X] 1a. Generator
- [ ] 1b. Less than 1,000 kg/mo.
- [ ] 2. Transporter
- [ ] 3. Treater/Storer/Disposer
- [ ] 4. Underground Injection
- [ ] 5. Market or Burn Hazardous Waste Fuel (*enter 'X' and mark appropriate boxes below*)
  - [ ] a. Generator Marketing to Burner
  - [ ] b. Other Marketer
  - [ ] c. Burner

B. Used Oil Fuel Activities

- [ ] 6. Off-Specification Used Oil Fuel (*enter 'X' and mark appropriate boxes below*)
  - [X] a. Generator Marketing to Burner
  - [ ] b. Other Marketer
  - [ ] c. Burner
- [ ] 7. Specification Used Oil Fuel Marketer (*or On site Burner*) Who First Claims the Oil Meets the Specification

VII. Waste Fuel Burning: Type of Combustion Device (*enter 'X' in all appropriate boxes to indicate type of combustion device(s) in which hazardous waste fuel or off-specification used oil fuel is burned. See instructions for definitions of combustion devices.*)

- [ ] A. Utility Boiler
- [ ] B. Industrial Boiler
- [ ] C. Industrial Furnace

VIII. Mode of Transportation (*transporters only — enter 'X' in the appropriate box(es)*)

- [ ] A. Air
- [ ] B. Rail
- [X] C. Highway
- [ ] D. Water
- [ ] E. Other (*specify*)

IX. First or Subsequent Notification

Mark 'X' in the appropriate box to indicate whether this is your installation's first notification of hazardous waste activity or a subsequent notification. If this is not your first notification, enter your installation's EPA ID Number in the space provided below.

- [X] A. First Notification
- [ ] B. Subsequent Notification (*complete item C*)

C. Installation's EPA ID Number

ID -	For Official Use Only		
C W		T/A	C 1

X. Description of Hazardous Wastes *(continued from front)*

A. **Hazardous Wastes from Nonspecific Sources.** Enter the four-digit number from 40 *CFR* Part 261.31 for each listed hazardous waste from nonspecific sources your installation handles. Use additional sheets if necessary.

1	2	3	4	5	6
D001	X001	U228			
7	**8**	**9**	**10**	**11**	**12**

B. **Hazardous Wastes from Specific Sources.** Enter the four-digit number from 40 *CFR* Part 261.32 for each listed hazardous waste from specific sources your installation handles. Use additional sheets if necessary.

13	14	15	16	17	18
19	**20**	**21**	**22**	**23**	**24**
25	**26**	**27**	**28**	**29**	**30**

C. **Commercial Chemical Product Hazardous Wastes.** Enter the four-digit number from 40 *CFR* Part 261.33 for each chemical substance your installation handles which may be a hazardous waste. Use additional sheets if necessary.

31	32	33	34	35	36
37	**38**	**39**	**40**	**41**	**42**
43	**44**	**45**	**46**	**47**	**48**

D. **Listed Infectious Wastes.** Enter the four-digit number from 40 *CFR* Part 261.34 for each hazardous waste from hospitals, veterinary hospitals, or medical and research laboratories your installation handles. Use additional sheets if necessary.

49	50	51	52	53	54

E. **Characteristics of Nonlisted Hazardous Wastes.** Mark 'X' in the boxes corresponding to the characteristics of nonlisted hazardous wastes your installation handles. *(See 40 CFR Parts 261.21 — 261.24)*

☐ 1. Ignitable *(D001)* ☐ 2. Corrosive *(D002)* ☐ 3. Reactive *(D003)* ☐ 4. Toxic *(D000)*

XI. Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Signature →	Name and Official Title *(type or print)*	Date Signed
	Ed Hope, General Manager Teterboro Jet Center Falcon Jet Corporation	7/21/86

This Memorandum is an acknowledgment that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper's No.

APPROVED RECOVERY SYSTEMS
(Name of Carrier)

Carrier's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the receipt by the carrier of the property described in the Original Bill of Lading.

AT 19 83 FROM

The property described below in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classifications in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

CONSIGNED TO FALCON JET — Falcon Jet Corp. P/O Box 960 Little Rock Ark. 72203
(Mail or street address of consignee—For purposes of notification only.)

DESTINATION TETERBORO AIRPRT STATE N.J. COUNTY Bergen DELIVERY ADDRESS
(★ To be filled in only when shipper desires and governing tariffs provide for delivery thereat.)

ROUTE TETERBORO N.J. 07605 P/O E-20476 HH B. Black

DELIVERING CARRIER CAR OR VEHICLE INITIALS NO.

No. Packages	Kind of Package, Description of Articles, Special Marks, and Exceptions	*WEIGHT (Subject to Correction)	Class or Rate	Check Column
15 ~~40~~	WASTE WATER			
	NOS HAZARDOUS			
	P.O.#			
	Page 10/13/83 O.K.			

Subject to Section 7 of Conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "To be Prepaid."

Received $ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(The signature here acknowledges only the amount prepaid.)

Charges Advanced:

$

C.O.D. SHIPMENT

C. O. D. Amt.

Collection Fee

Total Charges

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight."
NOTE— Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.
The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding
per

† The Fibre Boxes used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of Consolidated Freight Classification. ‡ Shipper's imprint in lieu of stamp; not a part of bill of lading approved by the Interstate Commerce Commission.

SHIPPER, PER

AGENT PER

Permanent postoffice address of shipper.

TOPS 3741
LITHO-USA

PART 3: GENERATOR'S COPY

GENERATOR EPA ID NO. N/A

TRANSPORTER NO. 1 SIGNATURE AND CERTIFICATION OF DELIVERY AND NON-TAMPERING WITH SHIPMENT-ALSO PRINT SIGNATURE

George Denton GEORGE DENTON

DATE DELIVERED 3 15 82 (MO. DAY YR.)

TRANSPORTER NO. 2 SIGNATURE AND CERTIFICATION OF RECEIPT OF SHIPMENT-ALSO PRINT SIGNATURE

TRANSPORTER NO. 2 SWA REGISTRATION NO.

DATE RECEIVED (MO. DAY YR.)

TRANSPORTER NO. 2 SIGNATURE AND CERTIFICATION OF DELIVERY AND NON-TAMPERING WITH SHIPMENT-ALSO PRINT SIGNATURE

DATE DELIVERED (MO. DAY YR.)

TO BE FILLED OUT BY TRANSPORTER

TREATMENT STORAGE OR DISPOSAL FACILITY INDICATION OF ANY DIFFERENCES BETWEEN MANIFEST AND SHIPMENT OR LISTING OF REASONS FOR AND DISPOSITION OF REJECTED MATERIALS

HANDLING METHOD

1 T23 4 S02

2 T44 5

3 750 6

TSD FACILITY EPA ID NO. NJD064981988

TREATMENT STORAGE OR DISPOSAL FACILITY SIGNATURE & CERTIFICATION OF RECEIPT OF SHIPMENT - ALSO PRINT SIGNATURE

Harry Torres HARRY TORRES

TITLE Supervisor

DATE RECEIVED 3 15 82 (MO. DAY YR.)

TO BE FILLED OUT BY TSD FACILITY

In case of emergency or [illegible] and the N.J. Dept. of [illegible]

DOCUMENT NO. NJ 0065837

TETERBORO HAZARDOUS WASTE FILE

For - VHW-001 (10/80)

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION

HAZARDOUS WASTE MANIFEST

Please TYPE all information.

DOCUMENT NO. NJ 0065837

PART A: GENERATOR'S COPY

GENERATOR NAME Falcon Jet Co.	PHONE (INCLUDE AREA CODE) (201) 288-5300	EPA ID NO. APPLIED FOR
ADDRESS (STREET - CITY - STATE - ZIP CODE) TeterBoro Airport, Teterboro, NJ 07602		
TRANSPORTER NO. 1 Olsen & Hassold, Inc.	PHONE (INCLUDE AREA CODE) (201) 345-4000	EPA ID NO. NJD00076 8176
ADDRESS (STREET - CITY - STATE - ZIP CODE) 62-64 E. 26th Street, Paterson, NJ 07514		
TRANSPORTER NO. 2	PHONE (INCLUDE AREA CODE)	EPA ID NO.
ADDRESS (STREET - CITY - STATE - ZIP CODE)		
TREATMENT, STORAGE OR DISPOSAL (TSD) FACILITY B & L Oil, Inc.	PHONE (INCLUDE AREA CODE) 248-7924	EPA ID NO. NJD06498 1988
SITE ADDRESS (STREET - CITY - STATE - ZIP CODE) 472 Frelinghuysen Avenue, Newark, NJ 07114		

IF MORE THAN TWO TRANSPORTERS ARE TO BE UTILIZED, FILL OUT THE FOLLOWING AS APPROPRIATE
THIS FORM IS NO. ____ OF A TOTAL OF ____. THE FIRST MANIFEST DOCUMENT NO. IS NJ→

	PROPER US DOT SHIPPING NAME	US DOT HAZARD CLASS	UN NUMBER	FORM	NET QUANTITY	UNITS	CONTAINERS NO.	CONTAINERS TYPE	EPA HAZ CODE	EPA WASTE TYPE
1.	Waste Oil N.O.S.	COMBUSTIBLE Non-Haz	N/A 1270	1	2000-	1	001	02	NJ	X72
2.										
3.										
4.										
5.										
6.										

SPECIAL HANDLING INSTRUCTIONS INCLUDING CONTAINER EXEMPTION (i.e. IDENTIFICATION OF ADDITIONAL WASTES INCLUDED IN SHIPMENT OF A NONHAZARDOUS NATURE WHICH DO NOT HAVE TO BE MANIFESTED)

GENERATOR'S CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labelled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S. EPA and the State. The wastes described above were consigned to the Transporter named. The Treatment, Storage or Disposal Facility can and will accept the shipment of hazardous waste, and has a valid permit to do so. I certify that the foregoing is true and correct to the best of my knowledge.

GENERATOR'S SIGNATURE - ALSO PRINT SIGNATURE	TITLE	DATE SHIPPED (MO. DAY YR.)	EXPECTED ARRIVAL DATE (MO. DAY YR.)
George Denton	Lead Line Man	03 15 82	03 15 82

TRANSPORTER NO. 1 SIGNATURE AND CERTIFICATION OF RECEIPT OF SHIPMENT - ALSO PRINT SIGNATURE	TRANSPORTER NO. 1 SWA REGISTRATION NO.	DATE RECEIVED (MO. DAY YR.)
Bruce Perrault Bruce Perrault	NJS5990A1	03 15 82

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ. 08625

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No 2050-0039 Expires 9-30-88

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: N J D1 34 8 69 5 51 — Manifest Document No:
2. Page 1 of — Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address:
FALCON JET CORPORATION
90 Moonachie Avenue MOONACHIE, N.J. 07074

A. State Manifest Document Number: NJA 0426714

4. Generator's Phone: 201 288-5300

B. State Generator's ID: NJD134869551

5. Transporter 1 Company Name: Continental Carriers — 6. US EPA ID Number: N J0 9 9 0 7 2 0 6 5 8

C. State Trans ID: NJ0990720658

7. Transporter 2 Company Name: — 8. US EPA ID Number:

D. Transporter's Phone: 201 727-1188

E. State Trans ID:

9. Designated Facility Name and Site Address:
Solvents Recovery Services Of New Jersey, Inc.
1200 Sylvan, Street
Linden, N.J. 07036

10. US EPA ID Number: N J D 0 0 2 1 8 2 8 9 7

F. Transporter's Phone:

G. State Facility's ID:

H. Facility's Phone:

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	Waste No.
Non Hazardous P.N. 015677-FD N/A	KR	DM	KR 1 0	Gal	N A
RQ Waste Flammable Liquid Nos (D001) UN 1993 P.N. 015674-FD	1	DM	50	GAL	D 0 0 1
RQ Waste Flammable Liquid Nos(F002) Flammable Liquid UN1993 P.N.015698-HD	2	DM	1 0 0	GAL	F 0 0 2

Additional Descriptions for Materials Listed Above:
Mil-H-5606 80%
water 20%
Varsol 90%
Oil-Grease 10%
IIITrichloroethaene 50%
Mineral Oil 20%
Varsol 10% Misc10%

Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information:

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Rudy Bioletti / Gerard T. Sabella — Signature: [signature] — Month Day Year: 0 6 0 1 88

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Kevin Ruscoe — Signature: [signature] — Month Day Year: 0 6 0 2 88

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Month Day Year:

19. Discrepancy Indication Space:

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19

Printed/Typed Name: — Signature: — Month Day Year:

NJA0426714

EPA Form 8700-22 (Rev. 9-86) Previous editions are obsolete

SIGNATURE AND INFORMATION MUST BE LEGIBLE ON ALL COPIES

6 — GENERATOR MAIL TO - TSD'S STATE

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

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Form Approved OMB No 2050-0039 Expires 9-30-88

UNIFORM HAZARDOUS WASTE MANIFEST

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Manifest Document No:
2. Page 1 of
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FALCON JET CORPORATION
90 Moonachie Avenue MOONACHIE, N.J. 07074

A. State Manifest Document Number: NJA 0426714

4. Generator's Phone: 201 288-5300

B. State Generator's ID: NJD134869551

5. Transporter 1 Company Name: Continental Carriers
PLEASE CHECK NEED TO SEE ITEM NO THE NJ EPA AS WELL

6. State Trans. ID: NJ0990720658

7. Transporter 2 Company Name:

8. Transporter's Phone: 200 727-1188

9. Designated Facility Name and Site Address
Solvents Recovery Services Of New Jersey, Inc.
1200 Sylvan, Street
Linden, N.J. 07036

10. Number: N J D 0 0 2 1 [illegible] 8 9 7

E. State Trans. ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone:

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	15. Waste No.
a. Non Hazardous P.N. 015677-FD N/A		KR [illegible]	DM	KR 1 [illegible] 0	Gal	N A
b. RQ Waste Flammable Liquid Nos (D001) UN 1993 P.N. 015674-FD		1	DM	50	GAL	D 0 0 1
c. RQ Waste Flammable Liquid Nos(F002) Flammable Liquid UN1993 P.N.015698-HD		2	DM	10 0	GAL	F 0 0 2
d.						

Additional Descriptions for Materials Listed Above

Mil-H-5606	80%
water	20%
Varsol	90%
Oil-Grease	10%

IIITrichloroethaene 50%
Mineral Oil 20%
Varsol 10% Misc10%

Handling Codes for Wastes Listed Above

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Printed/Typed Name: Rudy Bioletti / Gerard T. Sabella
Signature: [signature]
Month Day Year: 0 6 0 1 88

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Kevin Ruscoe
Signature: [signature]
Month Day Year: 06 [illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name:
Signature:
Month Day Year:

NJA0426714

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

7 — GENERATOR MAIL TO - GENERATOR STATE

SIGNATURE AND INFORMATION MUST BE LEGIBLE ON ALL COPIES

SOLVENTS RECOVERY SERVICE

NOTIFICATION OF SHIPMENT OF A HAZARDOUS WASTE RESTRICTED FROM LAND DISPOSAL

GENERATOR: FALCON JET CORP

ADDRESS: 90 Hoovachic Ave Moonachie, New Jersey 07608

MANIFEST #: NJA 0426713

PI #: 015698-HD

I. Table CCWE - Constituent in Waste Extract 40 CFR 268.41

Concentration (in mg/l) F001-F005 Spent Solvents	Wastewaters Containing Spent Solvents	All Other Spent Solvent Wastes
☐ Acetone	0.05	0.59
☐ n-Butyl alcohol	5.0	5.0
☐ Carbon disulfide	1.05	4.81
☐ Carbon tetrachloride	.05	.96
☐ Chlorobenzene	.15	.05
☐ Cresols (and cresylic acid)	2.82	.75
☐ Cyclohexanone	.125	.75
☐ 1,2-dichlorobenzene	.65	.125
☐ Ethyl acetate	.05	.75
☐ Ethyle benzene	.05	.053
☐ Ethyl ether	.05	.75
☐ Isobutanol	5.0	5.0
☐ Methanol	.25	.75
☐ Methylene chloride	.20	.96
☐ Methylene chloride (from the pharmaceutical industry)	12.7	.96
☐ Methyl ethyl ketone	0.05	0.75
☐ Methyl isobutyl ketone	0.05	0.33
☐ Nitrobenzene	0.66	0.125
☐ Pyridine	1.12	0.33
☐ Tetrachloroethylene	0.079	0.05
☐ Toluene	1.12	0.33
☐ 1,1,1-Trichloroethane	1.05	0.41
☐ 1,2,2-Trichloro-1,2,2-trifluroethane	1.05	0.96
☐ Trichloroethylene	0.062	0.091
☐ Trichlorofluoromethane	0.05	0.96
☐ Xylene	0.05	0.15

F020-F023 and F026-F028 Wastes	Concentration
☐ HxCDD-All Hexachlorodibenzo-p-dioxins	<1 ppb
☐ HxCDF-All Hexachlorodibenzofurans	<1 ppb
☐ PeCDD-All Pentachlorodibenzo-p-dioxins	<1 ppb
☐ PeCDF-All Pentachlorodibenzofurans	<1 ppb
☐ TCDD-All Tetrachlorodibenzo-p-dioxins	<1 ppb
☐ TCDF-All Tetrachlorodibenzofurans	<1 ppb
☐ 2,4,5-Trichlorophenol	<0.05 ppm
☐ 2,4,6-Trichlorophenol	<0.05 ppm
☐ 2,3,4,6-Tetrachlorophenol	<0.10 ppm
☐ Pentachlorophenol	<0.01 ppm

II. "California List" 40 CFR 268.32

☐ (1) Liquid hazardous wastes have a pH less than or equal to (2.0).

☐ (2) Liquid hazardous wastes containing polychlorinated biphen (PCBs) at concentrations greater than or equal to 50 ppm.

☐ (3) Liquid hazardous wastes that are primarily water and cont halogenated organic compounds (HOCs) in total concentrat greater than or equal to 1,000 mg/l and less than 10,000 m HOCs.

III. "California List" RCRA Section 3004(d)

☐ (A) Liquid hazardous wastes, including free liquids associated w any solid or sludge, containing free cyanides at concentrati greater than or equal to 1,000 mg/l.

☐ (B) Liquid hazardous wastes, including free liquids associated w any solid or sludge, containing the following metal elements) or compounds of these metals (or elements) concentrations greater than or equal to those specified below:

(i) arsenic and/or compounds (as As) 500 mg/l;
(ii) cadmium and/or compounds (as Cd) 100 mg/l;
(iii) chromium (VI and/or compounds (as Cr VI) 500 mg/l;
(iv) lead and/or compounds (as Pb) 500 mg/l;
(v) mercury and/or compounds (as Hg) 20 mg/l;
(vi) nickel and/or compounds (as Ni) 134 mg/l;
(vii) selenium and/or compounds (as Se) 100 mg/l; and
(viii) thallium and/or compounds (as Th) 130 mg/l.

This waste conforms to the description of and is identified a restricted waste above. The treatment standard that must be achie before this waste may qualify for land disposal is listed. T statement is based on: (Check One)

☐ Attached analysis

☒ Knowledge of the waste and the generating process

Authorized representative signature Gerard T Sabella

Print or type name Gerard T. Sabella

Title Supervisor

Date 6/1/89

2-118-01

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NJD 981491509 — Manifest Document No.: P 1186
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
FALCON JET
ATTN GEORGE REGE
TETERBORO NJ 07608
113 SILLY DIEML RD

4. Generator's Phone (201 288-5300

A. State Manifest Document Number: **NJA 0710282**

B. State Generator's ID: SAME

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.
6. US EPA ID Number: ILD 051060408

C. State Trans. ID: NJAEPS8690

7. Transporter 2 Company Name:
8. US EPA ID Number:

D. Transporter's Phone (914) 268-4477

E. State Trans. ID:

9. Designated Facility Name and Site Address
SAFETY-KLEEN CORP.
1200 SYLVAN ST
LINDEN NJ 07036

10. US EPA ID Number: 0-006-35 NJD 002182897

F. Transporter's Phone ( )

G. State Facility's ID: 200901

H. Facility's Phone (201) 862-2000

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X	RQ WASTE COMBUSTIBLE LIQUID N.O.S. NA 1993 (EPA D001) 1011	3	DM	1266	P	D001
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
100% ALIPHATIC HYDROCARBONS
a. c.
b. d.

K. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information
9952 11712452 741186 2-118-01-9282 2003
11a. CONTROL# 046003, SAMPLE# 049659
BKDOT# A. 1011 B: C: D:

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Robert Wasinsko E.J.C. — Signature: [signature] — Month Day Year: 010590

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Dan Byman — Signature: [signature] — Month Day Year: 010590

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Month Day Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: — Signature: — Month Day Year:

GENERATOR — TRANSPORTER — FACILITY

EPA Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

6 — GENERATOR MAIL TO - TSD'S STATE

SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

... can the state the emergency occurred in and the N.J. Dept. of Environmental Protection. (609) 292-5560 (Day) (609) 292-7172 (Night)

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

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Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No.
2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
4. Generator's Phone (201)

A. State Manifest Document Number: **NJA 0710282**
B. State Generator's ID: SAME
C. State Trans. ID
D. Transporter's Phone (914)
E. State Trans. ID
F. Transporter's Phone ( )
G. State Facility's ID
H. Facility's Phone (201) 882-2000

5. Transporter 1 Company Name | 6. US EPA ID Number
7. Transporter 2 Company Name | 8. US EPA ID Number
9. Designated Facility Name and Site Address | 10. US EPA ID Number

NJD 002182897

11. US DOT Description *(Including Proper Shipping Name, Hazard Class, and ID Number)*

	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a.	X	3	DM	1266	P	D001
b.						
c.						
d.						

a. RQ WASTE COMBUSTIBLE LIQUID N.O.S. NA 1993 (EPA D001)

J. Additional Descriptions for Materials Listed Above
100% ALIPHATIC HYDROCARBONS

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name | Signature | Month Day Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name | Signature | Month Day Year

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7 — GENERATOR MAIL TO - GENERATOR STATE

SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

GENERATOR

Questions concerning this manifest may be directed to the Hazardous Waste Facilities Inspection Program (609) 292-1172 (Night)

VHW-001 (REV. 9/86)

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NJD134869551 — Manifest Document No.:

2. Page 1 of — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address:
FALCON JET CORPORATION
90 Moonachie Avenue MOONACHIE, N.J. 07074

4. Generator's Phone (201) 288-5300

A. State Manifest Document Number: NJA 0426714

B. State Generator's ID: NJD134869551

5. Transporter 1 Company Name: Continental Carriers — 6. US EPA ID Number: NJ0990720658

C. State Trans. ID: NJ0990720658

7. Transporter 2 Company Name: — 8. US EPA ID Number:

D. Transporter's Phone (201) 727-1188

9. Designated Facility Name and Site Address:
Solvents Recovery Services Of New Jersey, Inc.
1200 Sylvan, Street
Linden, N.J. 07036

10. US EPA ID Number: NJD002182897

E. State Trans. ID:

F. Transporter's Phone ( )

G. State Facility's ID:

H. Facility's Phone ( )

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	Non Hazardous P.N. 015677-FD N/A	5	DM	150	Gal	N A
b.	RQ Waste Flammable Liquid Nos (D001) UN 1993 P.N. 015674-FD	1	DM	50	GAL	D 0 0 1
c.	RQ Waste Flammable Liquid Nos(F002) Flammable Liquid UN1993 P.N.015698-HD	2	DM	100	GAL	F 0 0 2
d.						

J. Additional Descriptions for Materials Listed Above

a. Mil-H-5606 80%, Water 20%
b. Varsol 90%, Oil-Grease 10%
c. IIITrichloroethaene 50%, Mineral Oil 20%
d. Varsol 10% Misc10%

K. Handling Codes for Wastes Listed Above

a. c. b. d.

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Printed/Typed Name: Rudy Bioletti — Signature: [signature] — Month Day Year: 06 01 88

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: [signature] — Signature: [signature] — Month Day Year: [illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Month Day Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: — Signature: — Month Day Year:

GENERATOR — TRANSPORTER — FACILITY

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SIGNATURE AND INFORMATION MUST BE LEGIBLE ON ALL COPIES

[illegible] Dept. of Environmental Protection. (609) 292-5560 (Day) (609) 292-7172 (Night)

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

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Manifest Document No.
2. Page 1 of
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90 Moonachie Avenue MOONACHIE, N.J. 07074

A. State Manifest Document Number: NJA 0426714

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B. State Generator's ID: NJD134869551

5. Transporter 1 Company Name: Continental Carriers
READ (CHG - NED) N JO 9 9 0 7 2 0 6 5 8

C. State Trans. ID: NJ0990720658

6. Transporter 2 Company Name
SEE ITEM 19 FOR 2nd TRANS NJ

D. Transporter's Phone: 201 727-1188

7. Designated Facility Name and Site Address
Solvents Recovery Services Of New Jersey, Inc.
1200 Sylvan, Street
Linden, N.J. 07036
EPA ID Number: N J D 0 0 2 1 [illegible] 8 9 7
EPA TO AS WELL

E. State Trans. ID

F. Transporter's Phone

G. State Facility's ID

H. Facility's Phone

	9. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) HM	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste No.
a	Non Hazardous P.N. 015677-FD N/A	1 (KR)	DM	1 (KR)	50 Gal	N A
b	RQ Waste Flammable Liquid Nos (D001) UN 1993 P.N. 015674-FD	1	DM	50	GAL	D 0 0 1
c	RQ Waste Flammable Liquid Nos(F002) Flammable Liquid UN1993 P.N.015698-HD	2	DM	10	OGAL	F 0 0 2
d						

14. Additional Descriptions for Materials Listed Above

Mil-H-5606 80% Water 20%
Varsol 90%
Oil-Grease 10%

IIITrichloroethaene 50%
Mineral Oil 20%
Varsol 10% Misc10%

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Rudy Bioletti / Gerard T. Sabella
Signature:
Month Day Year: 0 6 0 1 88

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Kevin Rosco
Signature:
Month Day Year: 0 6 0 1 88

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19

Printed/Typed Name
Signature
Month Day Year

NJA0426714

EPA Form 8700-22 (Rev. 9-85) Previous editions are obsolete.

7 - GENERATOR MAIL TO - GENERATOR STATE

SIGNATURE AND INFORMATION MUST BE LEGIBLE ON ALL COPIES

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No.

2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
FALCON JET
ATTN: GEORGE NEGE
PETERBORO

113 BILLY DIEHL RD
NJ 07608

4. Generator's Phone (201) 652-2300

A. State Manifest Document Number: NJA 0710282

B. State Generator's ID: SAME

5. Transporter 1 Company Name | 6. US EPA ID Number
SAFETY-KLEEN CORP | NJD 991404818

C. State Trans. ID: NJ0058890

7. Transporter 2 Company Name | 8. US EPA ID Number

D. Transporter's Phone (914) 258-4477

E. State Trans. ID

9. Designated Facility Name and Site Address | 10. US EPA ID Number
SAFETY-KLEEN CORP.
1200 SYLVAN ST
LINDEN NJ 07036 | NJD 002182857

F. Transporter's Phone ( )

G. State Facility's ID: 200021

H. Facility's Phone (201) 862-2000

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. X	RQ WASTE COMBUSTIBLE LIQUID N.O.S. NA 1993 (EPA D001) 101	3	DM	1266	P	D001
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
100% ALIPHATIC HYDROCARBONS

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
113. CONTROL 048003, SAMPLE 049859
ORDER# A 1011 B: C: D:

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR

Printed/Typed Name | Signature | Month Day Year
10 10 5 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DAN BYRAN | Signature | Month Day Year: 10 10 5 90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Month Day Year

EPA Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

7 — GENERATOR MAIL TO - GENERATOR STATE

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State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

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Form Approved. OMB No. 2050-0039. Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST	2. Page 1 of 1	Information in the shaded areas is not required by Federal law

4. Generator's US EPA ID No. 0759011911000 — Manifest Document No. 042421

5. Generator's Name and Mailing Address
Paloon Jet
110 Billy Blvd N.
Ridgewood N.J. 07303 201-172-0000

A. State Manifest Document Number: **NJA 0628815**

B. State Generator's ID: SAME

6. Transporter 1 Company Name: Safety Klean Corp. — US EPA ID Number: NJD 011030403

C. State Trans. ID

D. Transporter's Phone: 914-280-4477

7. Transporter 2 Company Name — US EPA ID Number

E. State Trans. ID

F. Transporter's Phone

8. Designated Facility Name and Site Address: Safety Klean Corp. 1200 Sylvan St. Linden N.J. 07036 — US EPA ID Number: NJD 002193897

G. State Facility's ID: 200901

H. Facility's Phone: (201) 862-3000

9a. HM	9b. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	10. Containers No.	Type	11. Total Quantity	12. Unit Wt/Vol	13. Waste No.
X	~~Waste Hazardous Material Regulated Hazardous~~ 80 Waste Combustible Liquid N.O.S. (D001)	2	DM	110	G	D001

14. Special Handling Instructions and Additional Information
Aliphatic Hydrocarbons 100.0

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

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Printed/Typed Name — Signature — Month Day Year

16. International Shipments: Transporter Signature (for exports only)

17. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

STATE MANIFEST DOCUMENT # CHANGED PER NANCY FOLEY, CHIEF BUREAU OF ENVIRONMENTAL EMERGENCIES
MANIFEST DOCUMENT # PRINTED IN RED

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name — Signature — Month Day Year

NJA COPY

6 — GENERATOR MAIL TO - TSD'S STATE

SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

Please print or type in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-97

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. [illegible]	Manifest Document No. [illegible]	2. Page 1 of [illegible] Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
[illegible]

A. State Manifest Document Number
NJA 0628815

B. State Generator's ID
[illegible]

4. Generator's Phone ([illegible])

5. Transporter 1 Company Name: [illegible] — 6. US EPA ID Number: [illegible]
C. State Trans. ID
D. Transporter's Phone: [illegible]

7. Transporter 2 Company Name — 8. US EPA ID Number
E. State Trans. ID
F. Transporter's Phone:

9. Designated Facility Name and Site Address — 10. US EPA ID Number
Quality Kleen Corp.
1500 Sylvan St.
Linden NJ 07036 — NJD 980678001
G. State Facility's ID: [illegible]
H. Facility's Phone: (201) 862-4000

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	K. Waste No.
a. NA Nonregulated Waste Liquid, n.o.s. (Non-hazardous Waste Combustible Liquid n.o.s.) (NA1993 (EPA 9001))	1	DM		P	0.00
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
Aliphatic Hydrocarbons 100.0

K. Handling Codes for Wastes Listed Above
a. [illegible] b. [illegible] c. [illegible] d. [illegible]

15. Special Handling Instructions and Additional Information
99-02 R92214 2-113-01-9120 Emerg # 018988, Customer 040035
SR DOT# A: [illegible]

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by [illegible] according to applicable international and national government regulations.

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Printed/Typed Name — Signature — Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space
[illegible]

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Month Day Year

EPA Form 8700-22 (Rev. 9-91) Previous editions are obsolete

7 — GENERATOR MAIL TO GENERATOR STATE

SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

NJ Haz Waste file

safety-kleen

80762 - R2271
FLUID RECOVERY SERVICE
CONTROL #: 046003

PRE/SHIP ANALYSIS - COMPLETE 10/09/89
CUSTOMER SURVEY
* * * FLUID RECOVERY SERVICE * * *

REVISED DATE 10/09/89
SAMPLE #: 049658

FALCON JET
113 BILLY DIEHL RD
TETERBORO AIRPORT
TETERBORO NJ 07608

FEDERAL EPA ID: NJD981491509 COUNTY:
STATE EPA: IL.: MO. ID:
MANIFEST ADDRESS IS FACILITY MANIFEST TO

NATURE OF BUSINESS: JET MAINT REPAIR
. ID:
SIC #:

MATERIAL DESCRIPTION:
HYDRO OIL/JET FUEL/TRI
PROCESS DESCRIPTION:
WASTE FROM JET MAINT

VOLUME : 220 GALS PER MONTH
VOLUME ON HAND : 220
STORAGE CAPACITY : 440 IN DRUMS
SHIPPING FREQUENCY: 1 MOS IN DRUMS
COLOR : BROWN
LAYERS : ONE
PHYSICAL STATE: LIQUID
VISCOSITY : LOW

MATERIAL COMPOSITION (VOL%):	MIN	MAX	TYPICAL
METHYL ETHYL KETONE			5.0
OIL, PETROLEUM			15.0
HYDRAULIC OIL			15.0
JET FUEL			60.0
WATER			5.0
NON-VOLATILE MATERIAL			
SETTLED SOLIDS			

RESTRICTED SUBSTANCES: NONE

D.O.T HAZARDOUS MATERIAL DESCRIPTION: CUSTOMER REQUESTS ASSISTANCE
PROPER SHIPPING NAME:
HAZARD CLASS: HAZARD NO. :

EPA HAZARDOUS WASTE DESCRIPTION: CUSTOMER REQUESTS ASSISTANCE
NO(S):
CODES:

P.O. NO: TYPE OF SAMPLE: GRAB #DRUMS: 3 TAKEN BY: SALESREP
CONTACT: GEORGE F. REGE TITLE: SUPV PHONE: 201/288-5300
COMMENT: SUPERVISOR FAC. MAINT
SALESPERSON: FLUID RECOVERY SERVICES TERRITORY: 6666 BRANCH #: 211801 DATE: 09/18/89

LAB REVIEW:
ACCEPT SEG CODE: RELEASED: 10/06/89
ANALYST: LC REVIEWER: LC ANALYZED: 10/06/89

CORPORATE REVIEWS:	DISPOSITION	REVIEWER	DATE
TECHNICAL:	ACCEPT	EJE	10/06/89
REGULATORY:	ACCEPT	CAP	10/06/89
OPERATING:	ACCEPT	JWH	10/09/89

TRACKING INFO	DATE	FACILITY
RECEIVED:	09/21/89	SK TECHNICAL CENTER

HANDLING CODES:
S02/T50

SK D.O.T. #: 0001011 DRUM OR BULK
RQ WASTE COMBUSTIBLE LIQUID N.O.S.
NA1993 (EPA D001)

0000999 SPECIAL NOTICE
PROPER DOT/EPA SHIPPING DESCRIPTION WAS NOT DETERMINED FROM THE ANALYSIS BUT IS BASED ON KNOWLEDGE OF SIMILIAR WASTES.

APPROVED FACILITIES:

658
SAFETY-KLEEN CORP
STATE HWY 146
NEWCASTLE KY 40050
FEDERAL EPA NO: KYD053348108
STATE EPA NO:
TELEPHONE: 502/845-2453

654
SAFETY-KLEEN CORP
633 EAST 138TH ST
DOLTON IL 60419
ILD980613913
0310690006
312/849-4850 **AUTH#** 000161

635
SAFETY-KLEEN CORP
1200 SYLVAN ST
LINDEN NJ 07036
NJD002182897
201/862-2000

COMMENT: OK FOR FUEL. FRS CAT I.

PRICING CODE: F1

THIS SERVES AS NOTICE PER, 40CFR264.12(B), THAT THE FACILITY(IES) NOTED ABOVE HAS THE APPROPRIATE PERMITS AND IS WILLING TO RECEIVE THE MATERIAL DESCRIBED.

NJ
R022

FLUID RECOVERY SERVICE
FALCON JET

CONTROL #: 046003
SAMPLE #: 049658

GENERAL COMPOSITION (VOL%):
BY APPEARANCE
AQUEOUS PHASE: 0.0 %
ORGANIC PHASE: 95.0 %
BOTTOM SLUDGE: 0.0 %
BOTTOM SOLID : 5.0 %

GENERAL ANALYSIS: TOTAL SAMPLE
COLOR : BROWN/BROWN,
WATER CONTENT: 6.1 WT%
NON-VOLATILE : 38.2 WT%
PH: EXTRACT BY PAPER 7.0
VISCOSITY : <50 CPS

SPECIFIC GRAVITY AT 72 F 0.880
API GRAVITY : 0.0
FLAMMABILITY : NO FLASH AT 142 F
BY SETAFLASH
RADIOACTIVITY: N.D.
PCB : N.D. < PPM

FUEL EVALUATION (WT%): TOTAL SAMPLE
HEAT CONTENT: 17200 BTU/LB
HALOGENS:
ASH: 0.4 %
CHLORINE: 0.7 %
BROMINE: < 0.1 %
FLUORINE: < 0.1 %
SULFUR: 0.2 %
PHOSPHORUS:

VOLATILE ORGANIC COMPOSITION: TOTAL SAMPLE BY FID UNITS: WEIGHT %
HEAVY ALIPHATIC HYDROCARBONS (C14-C20) 71.4
MEDIUM ALIPHATIC HYDROCARBONS (C9-C13) 28.6

SUMMARY:

ALCOHOLS	0.0	KETONES	0.0	CHLORINATED SOLVENTS	0.0
ESTERS	0.0	ALIPHATIC HYDROCARBONS	100.0	AROMATIC HYDROCARBONS	0.0
NITROGEN COMPOUNDS	0.0	GLYCOL ETHERS	0.0	ETHERS	0.0
INHIBITORS	0.0	OTHERS	0.0	MISCELLANEOUS	0.0

ADDITIONAL ANALYTICAL INFO: NVR SLUDGE

State of New Jersey
partment of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

RECEIVED

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-88

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No. | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
FAHEN TEST CORPORATION
90 Hanover Ave.
[illegible], New Jersey 07006

A. State Manifest Document Number: NJA 0426713

4. Generator's Phone ( )

B. State Generator's ID

5. Transporter 1 Company Name | 6. US EPA ID Number
Continental Carriers Corp. | NJD 987 120 618

C. State Trans. ID

7. Transporter 2 Company Name | 8. US EPA ID Number

D. Transporter's Phone

9. Designated Facility Name and Site Address | 10. US EPA ID Number
SAFETY KLEEN
600 Sylvan Street
Linden, New Jersey 07036 | NJD 000 511 917

E. State Trans. ID

F. Transporter's Phone

G. State Facility's ID

H. Facility's Phone (201) 862-2000

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	J. Waste No.
a.		RQ Waste Flammable Liquid NOS(D001) UN1993 PIN 015679-FD	002	DM	110	GAL	D001
b.	✓	RQ Waste Flammable Liquid NOS(F003) Flammable Liquid UN1993 PIN015679X-HD	001	DM	050	GAL	F003
c.							
d.							

J. Additional Descriptions for Materials Listed Above
a. Varsol 90%
b. 1,1,1 Trichloroethane 50%
Mineral oil 20%
c.
d.

K. Handling Codes for Wastes Listed Above
a.
b.
c.
d.

15. Special Handling Instructions and Additional Information

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Printed/Typed Name: [illegible] | Signature: [illegible] | Month Day Year: 1 1 9 1 1

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Edward H. Pedrick | Signature: [illegible] | Month Day Year: 1 0 1 9 1 1

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name | Signature | Month Day Year

EPA Form 8700-22 (Rev. 9-86) Previous editions are obsolete.

8 — GENERATOR COPY

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VHW-001 (REV. 9/88)

2-119-01

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

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Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJD [illegible] | Manifest Document No. [illegible]

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
[illegible] 119 BILLY DIGHL RD
PETERSBURG NJ 07060

A. State Manifest Document Number: NJA 0800593

4. Generator's Phone (201) 882-2000

B. State Generator's ID: SAME

5. Transporter 1 Company Name: SAFETY-KLEEN CORP

6. US EPA ID Number: NJD 091044408

C. State Trans. ID: NJDEP58-90

7. Transporter 2 Company Name

8. US EPA ID Number

D. Transporter's Phone ( ) [illegible]

9. Designated Facility Name and Site Address
[illegible] CLEAN EARTH OF
1200 SYLVAN ST
[illegible] NJ 07036

10. US EPA ID Number: [illegible] NJD 002168897

E. State Trans. ID

F. Transporter's Phone (201) [illegible]

G. State Facility's ID

H. Facility's Phone (201) 882-2000

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. X RQ WASTE CORROSIVE LIQUID, N.O.S. (CONTAINS NAPHTHALENE) NA 1760 (EPA D001) 101	4	DM	1612		D001
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a. 100% AROMATIC HYDROCARBONS
b.
c.
d.

K. Handling Codes for Wastes Listed Above
a.
b.
c.
d.

15. Special Handling Instructions and Additional Information
[illegible] CONTROL# 046003 SAMPLE# 028619 2018 140200346 651433 E-119-01-9252 0003
EMERGENCY RESP#1-708-888-6660
EPOXY A: 1011 B: C: D:

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Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]	12	13	90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]	12	13	90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

In case of an emergency or spill immediately call the state the emergency occurred in and the N.J. Dept. of Environmental Protection. (609) 292-9360 (Day) (609) 292-7172 (Night)

EPA Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

SIGNATURE AND INFORMATION MUST BE LEGIBLE ON ALL COPIES

VHW-001 (REV. 9/86)

2-118-01

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

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Form Approved. OMB No. 2050-0039. Expires 9-30-91

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJD 981151508 — Manifest Document No.

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
FALCON JET
ATTN GEORGE REGE
TETERBORO 113 BILLY DIEHL RD NJ 07608

4. Generator's Phone (201 288-5300)

A. State Manifest Document Number **NJA 0800593**

B. State Generator's ID FAMS

5. Transporter 1 Company Name SAFETY-KLEEN CORP. — 6. US EPA ID Number NJD 981151508

C. State Trans. ID NJDEP ID

7. Transporter 2 Company Name — 8. US EPA ID Number

D. Transporter's Phone ( )

E. State Trans. ID

9. Designated Facility Name and Site Address
SAFETY KLEEN CORP.
ALEX SYLVAN ST
LINDEN NJ 07036 — 10. US EPA ID Number NJD 002168917

F. Transporter's Phone ( )

G. State Facility's ID

H. Facility's Phone ( )

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X RQ WASTE COMBUSTIBLE LIQUID N.O.S. NA 1993 (BOX 5001) 1011	1	DM	1	P	D001
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
1. 100% ALIPHATIC HYDROCARBONS

K. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information
9012 14020366 651420 2-118-01-0800 D001
TIB. CONTROL# 046003 SAMPLE# 049658
EMERGENCY RESP#1-708-888-4660
SKDOT# A: 1011 B: C: D:

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GENERATOR

Printed/Typed Name Robert A. Lacroix — Signature — Month Day Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name DAN RYMAN — Signature — Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name — Signature — Month Day Year

EPA Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

7 — GENERATOR MAIL TO GENERATOR STATE

SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

Please print or type. (Form designed for use on elite (pitch) typewriter.) Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJ0981491509 — Manifest Document No.
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
FALCON JET
113 BILLY DIEHL ROAD
TETERBORO NJ 07808

4. Generator's Phone (201) 288-5300

A. State Manifest Document Number NJA05956265

B. State Generator's ID SAME

5. Transporter 1 Company Name CONTINENTAL CARRIERS CORP

6. US EPA ID Number NJD990720658

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
SAFETY-KLEEN CORP
1200 SYLVAN STREET
LINDEN, N.J. 07036

10. US EPA ID Number NJD002182837

G. State Facility's ID

H. Facility's Phone 201 862-2000

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X	WASTE OIL NOS NA1270 COMBUSTABLE LIQUID (X726)	018	DM	990	G	X726
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Jet fuel 65%
Oil 30%
Water 5%

K. Handling Codes for Wastes Listed Above
T50

15. Special Handling Instructions and Additional Information
A. 015117 00

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: GEORGE REDE — Signature: [signature] — Date: Month 9 Day 10 Year 07

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Edmund H Petrosky — Signature: [signature] — Date: Month 8 Day 10 Year 89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name — Signature — Month Day Year

GENERATOR — TRANSPORTER — FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290

6

reviewing instructions, gathering data, and completing and reviewing the form. Send comments ... U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NJD981491609 — Manifest Document No.: 92234

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Falcon Jet
113 Billy Diehl Rd.
Teterboro N.J. 07608 201-288-5300

4. Generator's Phone

A. State Manifest Document Number: NJA 0628815

B. State Generator's ID: SAME

5. Transporter 1 Company Name: Safety Kleen Corp.

6. US EPA ID Number: ILD 051060408

C. State Trans. ID: [illegible]

7. Transporter 2 Company Name

8. US EPA ID Number

D. Transporter's Phone: 914-258-4477

E. State Trans. ID

9. Designated Facility Name and Site Address
Safety Kleen Corp.
1200 Sylvan St.
Linden N.J. 07036

10. US EPA ID Number: NJD 002192287

F. Transporter's Phone

G. State Facility's ID: 2009C1

H. Facility's Phone: (201) 862-2000

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	*	~~RQ Waste Paint Related Material~~ RQ Waste Combustible Liquid N.O.S. NA1993 (EPA D001)	3	DM	1209	P	D 001
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Aliphatic Hydrocarbons 100.0
a. c.
b. d.

K. Handling Codes for Wastes Listed Above
a. R c.
b. d.

15. Special Handling Instructions and Additional Information
89-42 M92234 2-118-01-9220 Sample # 049658, Control# 046003
SK DOT# A: ~~[illegible]~~ ~~0000899~~ 1011

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: George F. Riege — Signature: [signature] — Month Day Year: [illegible]

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: [illegible] — Signature: [signature] — Month Day Year: [illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space
STATE MANIFEST DOCUMENT # CHANGED PER NANCY POWER, CHIEF BUREAU OF MANIFEST & INFORMATION SYSTEMS, NJ.
MANIFEST DOCUMENT # PREFIX = NJAA

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Month Day Year

EPA Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

8 — GENERATOR COPY

SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

In case of an emergency or spill immediately call the state the emergency occurred in and the N.J. Dept. of Environmental Protection. (609) 292-5560 (Day) (609) 292-7172 (Night)

Manifest Section
CN 028, Trenton, NJ 08625

Please type or print in block letters. (Form designed for [illegible] (12-pitch) typewriter.)

Form Approved OMB No. [illegible]

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NJD 124849551
Manifest Document No.: 39613
2. Page 1 of 1
Information in the [illegible] is not required by federal law

3. Generator's Name and Mailing Address
FALCON JET
ATTN JERRY
MOONACHIE
90 MOONACHIE AVE
NJ 07608

4. Generator's Phone (201) 288-5300

A. State Manifest Document Number: NJA 0916821

B. State Generator's ID: SAME

5. Transporter 1 Company Name: SAFETY-KLEEN CORP
6. US EPA ID Number: TLD 051060408

C. State Trans. ID: E28753

7. Transporter 2 Company Name:
8. US EPA ID Number:

D. Transporter's Phone (914) 268-4477

E. State Trans. ID:

9. Designated Facility Name and Site Address
SAFETY-KLEEN CORP.
1200 SYLVAN ST
LINDEN NJ 07036

10. US EPA ID Number: 0-006-35
NJD 002182897

F. Transporter's Phone ( )

G. State Facility's ID: 2009C1

H. Facility's Phone (201) 862-2000

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X	RQ WASTE PAINT RELATED MATERIAL FLAMMABLE LIQUID UN1263 (F005)(ERG#26) 1167	01	DM	376	P	F005
b.	X	RQ WASTE COMBUSTILBE LIQUID, N.O.S. (OIL) NA1993 (F001)(ERG#27) 3038	03	DM	1196	P	F001
c.							
d.							

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
11a. CONT# 0065587-4 SAM# 093152 9032 18197244 339613 2-118-01-9378 [illegible]
EMERGENCY RESP#1-708-882-4660
11b. CONT# 0065588-6 SAM# 093153 32877
SKDOT# A: 1167 B: 3038 C: D:

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.
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Printed/Typed Name: X Gerard T. Sabellar
Signature: X Gerard T. Sabellar
Month Day Year: 08 03 90

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Steven Bryant
Signature: Steven Bryant
Month Day Year: 08 03 90

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year:

19. Discrepancy Indication Space
note Item 15 should show 10% - 1,1,1
15 EPA # 32877 7% others

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name:
Signature:
Month Day Year:

NJA 0916821

Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

TSD MAIL TO - TSD'S STATE

SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

AUG 9 '90 11:01 FROM SAFETY-KLEEN 2-118-01 PAGE.002

Manifest Section
CN 028, Trenton, NJ 08625

Form approved. OMB No. [illegible]

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

Generator's US EPA ID No. NJD 1348[illegible] | Manifest Document No. 39613 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

1. Generator's Name and Mailing Address
FALCON JET
ATTN: JERRY
MOONACHIE
90 MOONACHIE AVE
NJ 07608

4. Generator's Phone: 201 288-5300

A. State Manifest Document Number: NJA 0916821

B. State Generator's ID: SAME

5. Transporter 1 Company Name: SAFETY-KLEEN CORP
6. US EPA ID Number: JLD 051060408

C. State Trans. ID: E28 B3

7. Transporter 2 Company Name:
8. US EPA ID Number:

D. Transporter's Phone (914) 268-4477

E. State Trans. ID:

9. Designated Facility Name and Site Address
SAFETY-KLEEN CORP
1200 SYLVAN ST
LINDEN NJ 07036

10. US EPA ID Number: 0-006-35 NJD 002182897

F. Transporter's Phone ( )

G. State Facility's ID: 2009C1

H. Facility's Phone (201) 862-2000

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X	RQ WASTE PAINT RELATED MATERIAL FLAMMABLE LIQUID UN1263 (F005)(ERG#26) 1167	01	DM	376	P	F005
b.	X	RQ WASTE COMBUSTIBLE LIQUID, N.O.S. (OIL) NA1993 (F001)(ERG#27) 3038	03	DM	1196	P	F001
c.							
d.							

[illegible] Additional Descriptions for Materials Listed Above [illegible] K. Handling Codes for Wastes Listed Above [illegible]

15. Special Handling Instructions and Additional Information
9032 18197244 339613 2-118-01-9378 EPA# 32877
11a. CONT# 0065587-4 SAM# 093152
EMERGENCY RESP#1-708-888-4660
11b. CONT# 0065588-6 SAM# 093153
SKDOT# A: 1167 B: 3038 C: D:

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: X Gerard T. Sabella | Signature: X Gerard T. Sabella | Month Day Year: 080390

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: STEVEN Bryant | Signature: Steven Bryant | Month Day Year: 080390

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: | Signature: | Month Day Year:

19. Discrepancy Indication Space: note Item 15 should show 10% - 1,1,1 7% others
15 EPA # 32877

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: | Signature: | Month Day Year:

EPA Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

1 — TSD MAIL TO - TSD'S STATE

SAFETY-KLEEN CORP.
PREQUALIFICATION EVALUATION
MATERIAL ANALYSIS

COMPLETE: 07/03
CONTROL#: 006558
SAMPLE# : 093153

ACCEPT
NO ATTACHMENT

FLUID RECOVERY
FALCON JET

** FLUID RECOVERY **

GENERAL ANALYSIS OF TOTAL SAMPLE

COLOR	: RED
WATER CONTENT	: < 0.1 WT%
NON-VOLATILE RESIDUE	: 21.0 WT% DESCRIPTION: OIL
FLAMMABILITY	: NO FLASH AT 142 F BY SETAFLASH
FLAMMABILITY	: NO FLASH AT 102 F BY SETAFLASH
PH	: EXTRACT BY PAPER 6.0
RADIOACTIVITY	: NONE DETECTED

FUEL EVALUATION OF TOTAL SAMPLE

HEAT CONTENT:		18400 BTU/LB	ASH UPON COMBUSTION:	<	1.0 WT%
TOTAL FLUORINE	F :	0.9 WT%	TOTAL CHLORINE	CL:	2.0 WT%
TOTAL BROMINE	BR: <	0.1 WT%	TOTAL SULFUR	S : <	0.1 WT%

GENERAL COMPOSITION:

	SPECIFIC GRAVITY	VISCOSITY (CENTIPOISE)	GENERAL COMPOSITION BY: APPEARANCE (VOL%)	TOTAL (WT %)
AQUEOUS PHASE (FREE WATER)			0.0	0.0
ORGANIC PHASE (FEEDSTOCK)			100.0	100.0
BOTTOM SLUDGE (SEMISOLIDS)			0.0	0.0
BOTTOM SOLID (SETTLED SOLIDS)			0.0	0.0
TOTAL	.870	< 50 CPS	100.0	100.0

SPECIFIC COMPOSITION OF TOTAL SAMPLE

	COMPOSITION OF: TOTAL SAMPLE (WT%)	TOTAL SAMPLE (WT%)
WATER CONTENT	0.1	0.1
NON-VOLATILE RESIDUE DESCRIPTION: OIL	21.0	21.0
VOLATILE ORGANICS BY DIFFERENCE	78.9	78.9
TOTAL	100.0	100.0

VOLATILE ORGANIC COMPOSITION OF TOTAL SAMPLE BY GAS CHROMATOGRAPHY

SAMPLE PREPARATION METHODS: CS2-EXTRACT
DETECTION METHODS : FID, FID

COMPOUND NAME	CODE	CAS NUMBER	COMPOSITION OF: VOLATILE ORGANICS (WT%)	VOLATILE ORGANICS (WT%)	TOTAL SAMPLE (WT%)
HIGH-BOILING ALIPHATIC HYDROCARBONS (C14-C20)	HHC	0-34-0	61.1	61.1	48.2
MEDIUM-BOILING ALIPHATIC HYDROCARBONS (C9-C13)	MHC	8030-30-6	21.0	21.0	16.6
TRICHLOROTRIFLUOROETHANE(TF)	FTF	76-13-1	13.3	13.3	10.5
TRICHLOROETHANE, 1,1,1-	111	71-55-6	4.0	4.0	3.2
TOTAL OTHERS (<1.0% EACH)	TO	0-05-5	0.6	0.6	0.5
TOTAL			100.0	100.0	78.9

SUMMARY OF VOLATILE ORGANIC COMPOSITION BY COMPOUND CHEMICAL CLASS WT%:

ALCOHOLS		ALIPHATIC HYDROCARBONS	82.1
AROMATIC HYDROCARBONS		CHLORINATED SOLVENTS	17.3
ESTERS		ETHERS	
GLYCOL ETHERS		INHIBITORS	
KETONES		NITROGEN COMPOUNDS	

SPECIFIC ORGANIC COMPOSITION

POLYCHLORINATED BIPHENYLS (PCBS): NONE DETECTED <

LABORATORY REVIEW: A
LEVEL: SEG CODE: RELEASED: 07/03/90
LAB REVIEWERS: CR CR ANALYZED: 07/03/90

TRACKING INFORMATION:

	DATE	FACILITY
SURVEY RECEIVED :	06/15/90	SK TECHNICAL CEN
SAMPLE RECEIVED :	06/15/90	
RESAMPLE SHIPPED :		
RESAMPLE RECEIVED:		

THE ANALYSES CONTAINED HEREIN ARE PERFORMED SOLELY FOR THE PURPOSE OF QUALIFYING THE ANALYZED MATERIALS FOR ACCEPTANCE BY SAFETY-KLEEN IN ACCORDANCE WITH ITS PERMITS AND PROCESSING CAPABILITY.

NOTICE OF LAND DISPOSAL RESTRICTION OF WASTE IS REQUIRED UNDER 40 CFR PART 268.

PREQUALIFICATION EVALUATION
CUSTOMER SURVEY

REVISED : 07/24/90
CONTROL#: 0065587-4
SAMPLE# : 093152

* * REVISED * *

safety-kleen

A C C E P T

FLUID RECOVERY

NO ATTACHMENT

* * F L U I D R E C O V E R Y * *

CUSTOMER INFORMATION:

COST Cory

FALCON JET
90 MOONACHIE AVE
MOONACHIE NJ 07074

ATTN: ROBERT W. THURLOW

BRANCH: 211801 RICK MARTIN COUNTY: BERGEN
NATURE OF BUSINESS: REPAIR JET PARTS
FEDERAL EPA ID: NJD134869551 STATE EPA: . ID:
MANIFEST ADDRESS IS BILLING MANIFEST TO SAFETY-KLEEN

MATERIAL: MEK, THINNER
VOLUME: 110 GALS PER YEAR
STORAGE CAPACITY: 110 IN DRUMS
COLOR: BROWN LAYERS: ONE

PROCESS: CLEAN PARTS
VOLUME ON HAND: 55
SHIPPING FREQUENCY: 12WKS IN DRUMS
PHYSICAL STATE: LIQUID VISCOSITY: LOW

MATERIAL COMPOSITION(VOL%):

	CODE	MIN	MAX	TYPICAL
THINNER	T	0.0		40.0
METHYL ETHYL KETONE	(D035) MEK	0.0		60.0

RESTRICTED SUBSTANCES: NONE
D.O.T. HAZARDOUS MATERIAL: CUSTOMER REQUEST ASSISTANCE
EPA HAZARDOUS WASTE: CUSTOMER REQUEST ASSISTANCE

P.O. NO:
BRANCH: 211801 DATE: 06/12/90
TYPE OF SAMPLE: GRAB NUMBER OF DRUMS SAMPLED: 1 TAKEN BY: SALESREP
CONTACT: ROBERT W. THURLOW TITLE: SUPERVISOR PHONE: 201-288-5300

CORPORATE REVIEWS:

	DISPOSITION	REVIEWER	DATE
TECHNICAL:	ACCEPT	CAP	06/28/90
REGULATORY:	ACCEPT	TAL	06/28/90
OPERATING:	ACCEPT	JWH	06/28/90

HANDLING CODES: S01/S02/T50 PRICING CODE: FH

APPROVED FACILITIES:

(635) SAFETY-KLEEN CORP
1200 SYLVAN ST
LINDEN NJ 07036
FED EPA#: NJD002182897
STATE EPA#:
TELEPHONE: 201/862-2000
IL. AUTH#:

(658) SAFETY-KLEEN CORP
STATE HWY 146
NEW CASTLE KY 40050
KYD053348108
502/845-2453

APPROVED 0001167 DRUM OR BULK
DOT-EPA RQ WASTE PAINT RELATED MATERIAL
DESC. FLAMMABLE LIQUID UN1263
(F005)(ERG#26)

ADDITIONAL EPA NO(S).
F002 D001

COMMENTS: LAB FOUND PCBS IN SAMPLE. PCBS OK FOR FRS PER J LUCKS.
OK FOR LINDEN PER JWH. FRS CAT IV-H PER J LUCKS.7-24-90

THIS SERVES AS NOTICE PER, 40CFR264.12(B), THAT THE FACILITY(IES) NOTED ABOVE HAS THE APPROPRIATE PERMITS AND IS WILLING TO RECEIVE THE MATERIAL DESCRIBED.

* * REVISED * *

ACCEPT

NO ATTACHMENT

FLUID RECOVERY
FALCON JET

** FLUID RECOVERY **

GENERAL ANALYSIS OF TOTAL SAMPLE

COLOR	: RED/GRAY
WATER CONTENT	: < 0.1 WT%
NON-VOLATILE RESIDUE	: 5.5 WT% DESCRIPTION: OIL
FLAMMABILITY	: FLASHED AT 140 F BY SETAFLASH
FLAMMABILITY	: FLASHED AT 100 F BY SETAFLASH
PH	: EXTRACT BY PAPER 6.0
RADIOACTIVITY	: NONE DETECTED

FUEL EVALUATION OF TOTAL SAMPLE

HEAT CONTENT:	18100 BTU/LB		ASH UPON COMBUSTION:	1.0 WT%	
TOTAL FLUORINE	F :	0.2 WT%	TOTAL CHLORINE	CL:	3.4 WT%
TOTAL BROMINE	BR: <	0.1 WT%	TOTAL SULFUR	S : <	0.1 WT%

GENERAL COMPOSITION:

	SPECIFIC GRAVITY	VISCOSITY (CENTIPOISE)	GENERAL COMPOSITION BY: APPEARANCE (VOL%)	TOTAL (WT %)
AQUEOUS PHASE (FREE WATER)			0.0	0.0
ORGANIC PHASE (FEEDSTOCK)			100.0	100.0
BOTTOM SLUDGE (SEMISOLIDS)			0.0	0.0
BOTTOM SOLID (SETTLED SOLIDS)			0.0	0.0
TOTAL	.820	< 50 CPS	100.0	100.0

SPECIFIC COMPOSITION OF TOTAL SAMPLE

	COMPOSITION OF:	TOTAL SAMPLE (WT%)	TOTAL SAMPLE (WT%)
WATER CONTENT		0.1	0.1
NON-VOLATILE RESIDUE	DESCRIPTION: OIL	5.5	5.5
VOLATILE ORGANICS BY DIFFERENCE		94.4	94.4
TOTAL		100.0	100.0

VOLATILE ORGANIC COMPOSITION OF TOTAL SAMPLE BY GAS CHROMATOGRAPHY

SAMPLE PREPARATION METHODS: NEAT
DETECTION METHODS : FID, FID

COMPOUND NAME		CODE	CAS NUMBER	VOLATILE ORGANICS (WT%)	VOLATILE ORGANICS (WT%)	TOTAL SAMPLE (WT%)
MINERAL SPIRITS, ALIPHATIC (C9-C13)		MS	8032-32-4	83.5	83.5	78.8
TRICHLOROETHANE, 1,1,1-		111	71-55-6	7.6	7.6	7.2
METHYL ETHYL KETONE	(D035)	MEK	78-93-3	6.0	6.0	5.7
TOTAL OTHERS (<1.0% EACH)		TO	0-05-5	2.9	2.9	2.7
TOTAL				100.0	100.0	94.4

SUMMARY OF VOLATILE ORGANIC COMPOSITION BY COMPOUND CHEMICAL CLASS WT%:

ALCOHOLS		ALIPHATIC HYDROCARBONS	83.5
AROMATIC HYDROCARBONS		CHLORINATED SOLVENTS	7.6
ESTERS		ETHERS	
GLYCOL ETHERS		INHIBITORS	
KETONES	6.0	NITROGEN COMPOUNDS	

SPECIFIC ORGANIC COMPOSITION

POLYCHLORINATED BIPHENYLS (PCBS): DETECTED 7 PPM AROCHLOR: 1254

LABORATORY REVIEW: R
LEVEL: SEG CODE: RELEASED: 06/28/90
LAB REVIEWERS: CR CR ANALYZED: 06/28/90
PCB DETECTED AT 7PPM OF AROCHLOR 1254

TRACKING INFORMATION:

	DATE	FACILITY
SURVEY RECEIVED :	06/15/90	SK TECHNICAL CEN
SAMPLE RECEIVED :	06/15/90	
RESAMPLE SHIPPED :		
RESAMPLE RECEIVED:		

THE ANALYSES CONTAINED HEREIN ARE PERFORMED SOLELY FOR THE PURPOSE OF QUALIFYING THE ANALYZED MATERIALS FOR ACCEPTANCE BY SAFETY-KLEEN IN ACCORDANCE WITH ITS PERMITS AND PROCESSING CAPABILITY.

REVISION NOTES ** (07/24/90) **
(0001) CHANGED TO ACCEPT. JWH
(0002) CORRECTED TYPO. JWH

NOTICE OF LAND DISPOSAL RESTRICTION OF WASTE IS REQUIRED UNDER 40 CFR PART 268.

VHW-001 (REV. 9/86)

3-116-01

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJD 980491502 — Manifest Document No. 84205
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
FALCON JET
ATTN GEORGE REGE
TETERBORO 113 BILLY DIEHL RD NJ 07608

4. Generator's Phone (201)288-5300

A. State Manifest Document Number **NJA 0924748**

B. State Generator's ID SAME

5. Transporter 1 Company Name: SAFETY-KLEEN CORP — 6. US EPA ID Number: ILD 051040406
C. State Trans. ID NJ0053369
D. Transporter's Phone (914) 268-4477

7. Transporter 2 Company Name — 8. US EPA ID Number
E. State Trans. ID

9. Designated Facility Name and Site Address
SAFETY-KLEEN CORP.
1200 SYLVAN ST
LINDEN NJ 07036

10. US EPA ID Number: 0-006-35 NJD 002182597
F. Transporter's Phone ( )
G. State Facility's ID 200961
H. Facility's Phone (201) 862-2000

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X	RQ WASTE COMBUSTIBLE LIQUID, N.O.S. NA1993 (EPA D001) 1011	1	DM	2400	P	D001
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
100% ALIPHATIC HYDROCARBONS

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information
11a. CONTROL# 046003 SAMPLE# 049693 1841080 6824108 3-116-01-9288 2003
EMERGENCY RESP#1-708-888-4600
SHOW A: 1011 B: C: D:

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: EGE — Signature — Month Day Year: 04 15 91

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year: 04 15 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name — Signature — Month Day Year

EPA Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

7 — GENERATOR MAIL TO - GENERATOR STATE

SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

GENERATOR

In case of an emergency or spill immediately call the state the emergency occurred in and the N.J. Dept. of Environmental Protection. (609) 292-5560 (Day) (609) 292-7172 (Night)

VHW-001 (REV. 9/86)

E-118-01

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJD 981491509 | Manifest Document No. 12208

2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
FALCON JET
ATTN GEORGE REGE
TETERBORO 119 BILLY DIEHL RD
NJ 07608

4. Generator's Phone (201) 288-5300

A. State Manifest Document Number **NJA 0924748**

B. State Generator's ID BAME

5. Transporter 1 Company Name: SAFETY-KLEEN CORP | 6. US EPA ID Number: FLD 053040403 | C. State Trans. ID NJAE5869

7. Transporter 2 Company Name | 8. US EPA ID Number | D. Transporter's Phone (914) 268-4477

9. Designated Facility Name and Site Address
SAFETY-KLEEN CORP.
1200 SYLVAN ST
LINDEN NJ 07036

10. US EPA ID Number: E-006-05 / NJD 002182897

E. State Trans. ID

F. Transporter's Phone ( )

G. State Facility's ID 20070C1

H. Facility's Phone (201) 862-2000

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X RQ WASTE COMBUSTIBLE LIQUID, N.O.S. NA1993 (EPA D001) 1011	1	DM	2420	P	D001
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
100% ALIPHATIC HYDROCARBONS

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
11a. CONTROL# 046002 SAMPLE# 049858 2024 1A410EBD 884209 E-118-01-9288 2003
EMERGENCY RESP#1-702-555-4666
SM003# A 1011 B: C: D:

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR

Printed/Typed Name: EOE | Signature | Month Day Year: 04 15 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Jim Byrnes | Signature | Month Day Year: 04 15 89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Month Day Year

EPA Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

SIGNATURE AND INFORMATION MUST BE LEGIBLE

Penalty for improper disposal: Failure to immediately notify the state in the event of an emergency involving the improper disposal of hazardous waste occurred in and the N.J. Dept. of Environmental Protection. (609) 292-5560 (Day) (609) 292-7172 (Night)

HAZARDOUS WASTE DATA SHEET

SOLVENTS RECOVERY SERVICE OF NEW JERSEY, INC.

1200 Sylvan Street, Linden, NJ 07036 201-862-2000

National Association of Solvent Recyclers

Solid Waste Facility NJ DEP #2009C
EPA ID# NJD 002182897

P.I. #

GENERATOR AND WASTE IDENTIFICATION

SALESMAN

WASTE DESCRIPTION Waste Combustible Liq. Light Hydrocarbon Water	GENERATOR Falcon Jet
GENERATING PROCESS	ADDRESS 113 Bill Diehl Rd.
	CITY, STATE, ZIP Peterboro N.H. 03458
	TECHNICAL CONTACT G Rege
USEPA HAZ. WASTE # N/A	TITLE Supervisor Fac. Maint.
STATE HAZ. WASTE # N/A	TEL. # (603) 924 5300 EXT. 733 - 7214
LISTED HAZARDOUS SUBSTANCE 49 CFR 172.101	GENERATOR EPA ID # NJD981491509
N/A RQ	BILL TO Falcon Jet
DOT PROPER SHIPPING NAME	ADDRESS P.O. Box 967
Waste Oil	CITY, STATE, ZIP Little Rock AR. 72203
HAZARD CLASS Combustible UN/NA# NA 1270	TEL. # (501) 372-5254 EXT.

WASTE QUANTITY

SHIPMENT FREQUENCY	QUANTITY UNIT	PER	TIME INTERVAL	VOLUME IN STORAGE	QUANTITY UNIT	IN	CONTAINER SIZE AND TYPE
	2 Load		As needed		2 T		20 C.Y.

DESCRIPTION

PHYSICAL STATE	☑ LIQUID	☐ SEMI-SOLID	☐ SOLID	TOTAL SOLIDS WT %		SUSPENDED SOLIDS WT %	
PHASES/LAYERING	☐ UNILAYER	☑ BILAYER	☐ MULTILAYER	BTU/# N/D	ASH% N/D	WATER WT % N/D	SP. GR. N/D
VISCOSITY	☐ HIGH	☑ MEDIUM	☐ LOW	FLASH POINT °F N/D		TYPE N/D	
TYPE OF SOLIDS	☒ ORGANIC	☐ INORGANIC	☐ MIXED	PH RANGE FROM N/D	TO	VAP. PRES. mm Hg @ 24°C	
ODOR	☐ NONE	☒ MILD	☐ STRONG	BOILING POINT °C N/D		FREEZING POINT °C	

COMPOSITION - INCLUDE WATER - MUST ADD TO 100%

COMPONENT	%
Light Hydrocarbon Oil	
C10 - C15 Aliphatic	
Hydrocarbon	40
Water	60
M.E.K.	0.3

METALS CONTENT - PPM BY WT. TOTAL/PPM IN FREE LIQUID

ARSENIC	N/A /	SELENIUM	N/D /
CADMIUM	N/D /	THALLIUM	N/D /
CHROMIUM VI	N/D /	COPPER	N/D /
LEAD	N/D /	BARIUM	N/D /
MERCURY	N/A /	ZINC	N/D /
NICKEL	N/D /		/

SUPPORTING INFORMATION

TOTAL % CHLORINE Less than TOTAL % SULFUR Less than

PESTICIDES ☐ YES ☒ NO HERBICIDES ☐ YES ☒ NO PCBs ☐ YES ☒ NO

AVAILABLE ANALYTICAL DATA ATTACHED ☒ YES ☐ NO

MATERIAL SAFETY DATA SHEETS ATTACHED ☐ YES ☒ NO

IDENTIFY ANY SUBSTANCE IN THIS WASTE LISTED IN SARA TITLE III Less than

SEE 40 CFR 355 App.A

SPECIAL HANDLING INSTRUCTIONS

CERTIFICATION

THE UNDERSIGNED HEREBY CERTIFIES THAT THE ABOVE INFORMATION INCLUDES AN ACCURATE DESCRIPTION OF THE NATURE AND SOURCE OF TH MATERIAL; THE PHYSICAL PROPERTIES AND CHEMICAL COMPOSITION HAVE BEEN FULLY DESCRIBED USING ALL AVAILABLE INFORMATION AND THA ALL KNOWN OR SUSPECTED HAZARDS HAVE BEEN DISCLOSED; THE INSTRUCTIONS ON THE BACK OF THIS FORM HAVE BEEN READ AND UNDERSTOOI ALL SAMPLES SUBMITTED HAVE BEEN TAKEN IN ACCORDANCE WITH SAMPLING PROCEDURES SET FORTH IN 40 CFR 261. THESE SAMPLES MUST B QUALIFIED AS CONFORMING TO THIS HAZARDOUS WASTE DATA SHEET AND AS BEING TREATABLE IN SRS's FACILITY. THE CHARGE FOR THIS IS $100. TH UNDERSIGNED AGREES TO ACCEPT, HONOR AND PAY SRS's INVOICE FOR THIS SERVICE.

DATE	NAME	TITLE	SIGNATURE
11/30/11	Gaurge F Rege	Fac Maint Supervisor	

FOR SRS USE

HWDS RECEIVED ON	SAMPLE RECEIVED ON	LAB REPORT ISSUED ON
APPROVED FOR COMPLIANCE ON	APPROVED FOR PROCESSING ON	APPROVED FOR QUOTATION ON
BY	BY	BY
SALESMAN		

NOTICE OF LAND DISPOSAL RESTRICTION OF WASTE

TO: SAFETY-KLEEN CORP
1200 SYLVAN ST
LINDEN NJ 07036

EPA ID No.: NJD002182897

Under manifest number NJA1101643 line number 11A (enter 11a, 11b, 11c, or 11d) the generator noted below is shipping to you a waste determined to be restricted under 40 CRF Part 268. In accordance with 40 CFR 268.7, the generator hereby provides notice that the waste is restricted and the EPA waste type and the appropriate treatment standards are as follows:

EPA Waste Type: F005

RESTRICTED CONSTITUENTS	TREATMENT STANDARDS (mg/l) Wastewater w/Solvents	All Other Solvent Waste	Check All That Apply
Acetone	0.05	0.59	___
n-Butyl alcohol	5.0	5.0	___
Carbon disulfide	1.05	4.81	___
Carbon tetrachloride	0.05	0.96	___
Chlorobenzene	0.15	0.05	___
Cresols (and cresylic acid)	2.82	0.75	___
Cyclohexanone	0.125	0.75	___
1,2-dichlorobenzene	0.68	0.125	___
Ethyl acetate	0.05	0.75	___
Ethyl benzene	0.05	0.053	___
Ethyl ether	0.05	0.75	___
Isobutanol	5.0	5.0	___
Methanol	0.25	0.75	___
Methylene chloride	0.20	0.96	___
Methylene chloride(from pharmaceutical industry)	12.7	0.96	___
Methyl ethyl ketone	0.05	0.75	___
Methyl isobutyl ketone	0.05	0.33	___
Nitrobenzene	0.66	0.125	___
Pyridine	1.12	0.33	___
Tetrachloroethylene	0.079	0.05	___
Toluene	1.12	0.33	___
1,1,1-Trichloroethane	1.05	0.41	___
1,1,2-Trichloro - 1,2,2 trifluroethane	1.05	0.96	___
Trichloroethylene	0.062	0.091	___
Trichlorofluoromethane	0.05	0.96	___
Xylene	0.05	0.15	___
Halogenated Organic Compounds	1000.0	1000.0	___
Free Cyanides	1000.0	1000.0	___
Arsenic (As)	500.0	500.0	___
Cadmium (Cd)	100.0	100.0	___
Chromium (Cr VI)	500.0	500.0	___
Lead (Pb)	500.0	500.0	___
Mercury (Hg)	20.0	20.0	___
Nickel (Ni)	134.0	134.0	___
Selenium (Se)	100.0	100.0	___
Thallium (Tl)	130.0	130.0	___

Generator Name: FALCON JET EPA ID: NJD981491509

Generator Representative Signature: X [signature]

Name & Title of Representative: X Plant Waste Facility Mgmt Tech
(print or type)

S-K Sample Number: 049658 CONTROL # 0046003

VHW-001 (REV. 9/86)

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NJD 981491509 — Manifest Document No.: 78838

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
FALCON JET
113 BILLY DIEHL RD
PETERSBORO NJ 07608 (201)288-5300

4. Generator's Phone

A. State Manifest Document Number: NJA 0915133

B. State Generator's ID: SAME

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.

6. US EPA ID Number: ILD051060408

C. State Trans. ID: EZ 9753

7. Transporter 2 Company Name:

8. US EPA ID Number:

D. Transporter's Phone: 914-268-4477

E. State Trans. ID:

9. Designated Facility Name and Site Address
SAFETY-KLEEN CORP.
1200 SYLVAN ST.
LINDEN. NJ 07036

10. US EPA ID Number: 0-006-35 NJD002181397

F. Transporter's Phone ( )

G. State Facility's ID: 2009C1

H. Facility's Phone: 201-862-2000

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X RQ WASTE COMBUSTIBLE LIQUID, N.O.S. (METHYL ETHYL KETONE)NA1993 (F005)(ERG#27)	03	DM	1207	P	F005
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
6% WATER 38% JET FUEL
16% ALIPHATIC HYDROCARBONS(C9-C20)
40% ALIPHATIC HDYROCARBONS(C14-C20)

K. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information
11a SAM#049658 CONTROL#0048003-2 11d SAM# CONTROL#
11b SAM# CONTROL# EMERG. RESP. # 1-708-888-4660
11c SAM# CONTROL# SKOOT# A:3021 B: C: D:

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Robert Wasinko EJC — Signature: [signature] — Month Day Year: 12 27 90

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Steven Bruno — Signature: [signature] — Month Day Year: 12 27 90

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Month Day Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: — Signature: — Month Day:

GENERATOR — TRANSPORTER — FACILITY

In case of an emergency or spill immediately call the state the emergency occurred in and the N.J. Dept. of Environmental Protection. (609) 292-5560 (Day) (609) 292-7172 (Night)

EPA Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL

6 — GENERATOR MAIL TO - TSD'S STATE

VHW-001 (REV. 9/88)

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJD 981491909 | Manifest Document No. 78838

2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
FALCON JET
113 BILLY DIEHL RD
MEDFORD NJ 07508
4. Generator's Phone (301)288-5300

A. State Manifest Document Number NJA 0915133

B. State Generator's ID SAME

5. Transporter 1 Company Name: SAFETY-KLEEN CORP. | 6. US EPA ID Number: IUD051050408

C. State Trans. ID

7. Transporter 2 Company Name | 8. US EPA ID Number

D. Transporter's Phone 914-268-4477

E. State Trans. ID

9. Designated Facility Name and Site Address
SAFETY-KLEEN CORP.
1200 SYLVAN ST.
LINDEN NJ 07036

10. US EPA ID Number: NJD 0[illegible]

F. Transporter's Phone ( )

G. State Facility 2009C1

H. Facility's Phone 201-862-2000

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X RQ WASTE COMBUSTIBLE LIQUID, N.O.S. (METHYL ETHYL KETONE)NA1993 (F005)(ERG#27)	03	DM	1207	P	F005
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
a. 83% WATER SOL. ALIPHATIC
15% ALIPHATIC HYDROCARBONS(C9-C20)
2% ALIPHATIC HDYROCARBONS(C16-C30)
b. c.

K. Handling Codes for Wastes Listed Above
a. b. c.

15. Special Handling Instructions and Additional Information
[illegible]-01-9232, INV.#M73958 WEEK
1) SAMS049958 CONTROL#-5007-1 2) SAM# CONTROL#
3) SAM# CONTROL# EMERG. RESP. #: 1-800-888-4850
4) SAM# CONTROL# SHOOT# A:2021 B: C: D:

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Printed/Typed Name [illegible] | Signature [illegible] | Month Day Year [illegible]

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name [illegible] | Signature [illegible] | Month Day Year [illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name | Signature | Month Day Year

EPA Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

7 — GENERATOR MAIL TO - GENERATOR STATE

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State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

2-118-01

Use type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

Generator's US EPA ID No. NJD 134869551

Manifest Document No. 62475

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
FALCON JET
ATTN JERRY
MOONACHIE
90 MOONACHIE AVE
NJ 07608

4. Generator's Phone (201) 288-5300

A. State Manifest Document Number
NJA 1060869

B. State Generator's ID
SAME

5. Transporter 1 Company Name
SAFETY-KLEEN CORP.

6. US EPA ID Number
ILD 051060408

C. State Trans. ID NJDEP58G

7. Transporter 2 Company Name

8. US EPA ID Number

D. Transporter's Phone (914 268-4477

E. State Trans. ID

9. Designated Facility Name and Site Address
SAFETY-KLEEN CORP.
1200 SYLVAN ST
LINDEN NJ 07036

10. US EPA ID Number
0-006-35
NJD 002182897

F. Transporter's Phone ( )

G. State Facility's ID 2009C1

H. Facility's Phone (201 862-2000

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X	RQ WASTE COMBUSTIBLE LIQUID, N.O.S. (PETROLEUM DISTILLATE) NA1993 (F002)(ERG#27)	1	DM	458	P	F002
b.	X	RQ WASTE FLAMMABLE LIQUID, N.O.S. (PETROLEUM DISTILLATE UN1993 (F002)(ERG#27)	1	DM	430	P	F002
c.	X	WASTE 1,1,1-TRICHLOROETHANE ORM-A UN2831 (F001)(ERG#74)	2	DM	1191	P	F001
d.							

J. Additional Descriptions for Materials Listed Above
4% MEDIUM BOILING ALIPHATIC HYDROCARBONS
3% PERCHLOROETHYLENE
3% METHYLENE CHLORIDE
4% MINERAL SPIRITS
9% ALIPHATIC HYDROCARBONS (C9-C13)
35% TRICHLOROETHANE 1,1,1
c. MEK - 4%
Toluene - 4%

K. Handling Codes for Wastes Listed Above
a. c.
b. d.

L. Special Handling Instructions and Additional Information
11a.CONT#0077365-7 SAM#111165 9048 21534052 762475 2-118-01-9378 XX
11b.CONT#0077373-4 SAM#111166
EMERGENCY RESP#1-708-388-4660
11c.CONT#0077409-2 SAM#111167 SKDOT# A: 3036 B: 2225 C: 511 D:

M. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Gerard Sabella
Signature: [signature]
Month Day Year: 11 30 90

Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Dan Byman
Signature: [signature]
Month Day Year: 11 30 90

Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year:

Discrepancy Indication Space
Item 10 should also show MEK - 4%
Toluene - 4%

Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name:
Signature:
Month Day Year:

Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

TSD MAIL TO - TSD'S STATE

SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

NJA 1060869

VHW-001 (REV. 9/86)

2-118-01

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No. 22473

2. Page 1 of | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
[illegible] 79 MOONACHIE AVE
MOONACHIE NJ 07074

4. Generator's Phone (201) 288-5300

A. State Manifest Document Number: **NJA 1060869**

B. State Generator's ID: SAME

5. Transporter 1 Company Name: [illegible] CORP.

6. US EPA ID Number: NJD 091030408

C. State Trans. ID: NJDEP3349

D. Transporter's Phone (718) 268-5477

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Trans. ID

9. Designated Facility Name and Site Address
[illegible] SYLVAN ST
UNION NJ 07083

10. US EPA ID Number
0-005-39
NJD 002182897

F. Transporter's Phone (201) 851

G. State Facility's ID

H. Facility's Phone (201) 688-2000

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X RQ WASTE COMBUSTIBLE LIQUID, N.O.S. (PETROLEUM DISTILLATE) NA1993 (F002)(ERG#27)	1	DM	458	P	F002
b.	X RQ WASTE FLAMMABLE LIQUID, N.O.S. (PETROLEUM DISTILLATE UN1993 (F002)(ERG#27)	1	DM	430	P	F002
c.	X WASTE 1,1,1-TRICHLOROETHANE ORM-A UN2831 (F001)(ERG#74)	2	DM	1191	P	F001
d.						

J. Additional Descriptions for Materials Listed Above
a. 54% MEDIUM BOILING AROMATIC HYDROCARBONS
b. 33% PERCHLOROETHYLENE
13% METHYLENE CHLORIDE
c. 4% MINERAL SPIRITS
40% ALIPHATIC HYDROCARBONS C9-C13)
33% TRICHLOROETHANE 1,1,1

K. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information
11a.CONT#0077373-1 SAM#111165 9048 21834058 762478 2-118-01-9379 FX
11b.CONT#0077373-4 SAM#111166
11c.CONT#0077409-2 SAM#111167 A: 3036 B: 2225 C: 511 D:

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR — Printed/Typed Name | Signature | Month Day Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: [illegible] | Signature | Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name | Signature | Month Day Year

EPA Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

6 — GENERATOR MAIL TO - TSD'S STATE

SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

In case of an emergency involving or spill immediately call the state the Emergency Occurred in and the N.J. Dept. of Environmental Protection. (609) 292-5560 (Day) (609) 292-7172 (Night)

VHW-001 (REV. 9/86)

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. [illegible] Manifest Document No. [illegible]
2. Page 1 of
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: [illegible] 90 MOONACHIE AVE NJ 07608
4. Generator's Phone (201) 288-5300
5. Transporter 1 Company Name: [illegible]
6. US EPA ID Number: ILD 051050408
7. Transporter 2 Company Name:
8. US EPA ID Number:
9. Designated Facility Name and Site Address: [illegible] 1200 SYLVAN ST LINDEN NJ 07036
10. US EPA ID Number: [illegible] NJD 002182897

A. State Manifest Document Number: NJA 1060869
B. State Generator's ID: SAME
C. State Trans. ID: NJDEP 5 [illegible]
D. Transporter's Phone (914) 266-4477
E. State Trans. ID:
F. Transporter's Phone ([illegible]
G. State Facility's ID:
H. Facility's Phone (201 862-2000

	HM	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X	RQ WASTE COMBUSTIBLE LIQUID, N.O.S. (PETROLEUM DISTILLATE) NA1993 (F002)(ERG#27)	1	DM	458	P	F002
b.	X	RQ WASTE FLAMMABLE LIQUID, N.O.S. (PETROLEUM DISTILLATE UN1993 (F002)(ERG#27)	1	DM	430	P	F002
c.	X	WASTE 1,1,1-TRICHLOROETHANE ORM-A UN2631 (F001)(ERG#74)	2	DM	1191	P	F001
d.							

J. Additional Descriptions for Materials Listed Above
54% MEDIUM BOILING ALIPHATIC HYDROCARBONS
33% PERCHLOROETHYLENE
13% METHYLENE CHLORIDE
4% MINERAL SPIRITS
49% ALIPHATIC HYDROCARBONS C9-C13)
35% TRICHLOROETHANE 1,1,1

K. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information
11a.CONT#0077353-7 SAM#111155 9048 21524052 762479 2-118-01-9078 [illegible]
11b.CONT#0077373-4 SAM#111166
[illegible]
11c.CONT#0077409-2 SAM#111167 [illegible] 3036 B 2225 C 511 [illegible]

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name | Signature | Month Day Year 11 30 90

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: [illegible] | Signature | Month Day Year 11 30 90

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name | Signature | Month Day Year

EPA Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

SIGNATURE AND INFORMATION MUST BE LEGIBLE ON ALL COPIES

CONTROL#: 0046003-2
SAMPLE# : 049658

safety-kleen

ACCEPT

-COVERY

NO ATTACHMENT

** FLUID RECOVERY **

CUSTOMER INFORMATION:

FALCON JET
113 BILLY DIEHL RD
TETERBORO AIRPORT
TETERBORO NJ 07608

ATTN: GEORGE F. REGE

BRANCH: 211801 RICK MARTIN
NATURE OF BUSINESS: JET MAINT REPAIR
FEDERAL EPA ID: NJD981491509 STATE EPA: . ID:
MANIFEST ADDRESS IS FACILITY MANIFEST TO

MATERIAL: HYDRO OIL/JET FUEL/TRI
VOLUME: 220 GALS PER MONTH
STORAGE CAPACITY: 440 IN DRUMS
COLOR: BROWN LAYERS: ONE

PROCESS: WASTE FROM JET MAINT
VOLUME ON HAND: 220
SHIPPING FREQUENCY: 1 MOS IN DRUMS
PHYSICAL STATE: LIQUID VISCOSITY: LOW

MATERIAL COMPOSITION(VOL%):

	CODE	MIN	MAX	TYPICAL
METHYL ETHYL KETONE	(D035) MEK	0.0		5.0
OIL, PETROLEUM	O	0.0		15.0
HYDRAULIC OIL	H	0.0		15.0
WATER	W	0.0		5.0
JET FUEL		0.0		60.0

RESTRICTED SUBSTANCES: NONE
D.O.T. HAZARDOUS MATERIAL: CUSTOMER REQUEST ASSISTANCE
EPA HAZARDOUS WASTE: CUSTOMER REQUEST ASSISTANCE

P.O. NO:
BRANCH: 211801
DATE: 09/18/89
TYPE OF SAMPLE: GRAB NUMBER OF DRUMS SAMPLED: 3
TAKEN BY: SALESREP
CONTACT: GEORGE F. REGE TITLE: SUPV
PHONE: 201-288-5300
SURVEY COMMENTS: SUPERVISOR FAC. MAINT

CORPORATE REVIEWS:	DISPOSITION	REVIEWER	DATE
TECHNICAL:	ACCEPT	EJE	10/06/89
REGULATORY:	ACCEPT	CAP	10/06/89
OPERATING:	ACCEPT	JWH	10/09/89

HANDLING CODES: S02/T50 PRICING CODE: F1

APPROVED FACILITIES:

(658) SAFETY-KLEEN CORP
STATE HWY 146
NEW CASTLE KY 40050
FED EPA#: KYD053348108
STATE EPA#:
TELEPHONE: 502/845-2453
IL. AUTH#:

(654) SAFETY-KLEEN CORP
633 EAST 138TH ST
DOLTON IL 60419
ILD980613913
0310690006
708/849-4850
000161

(635) SAFETY-KLEEN CORP
1200 SYLVAN ST
LINDEN NJ 07036
NJD002182897
201/862-2000

APPROVED 0003021 DRUM OR BULK
DOT-EPA DESC. RQ WASTE COMBUSTIBLE LIQUID, N.O.S. (METHYL ETHYL KETONE) NA1993 (F005)(ERG#27)
COMMENTS: OK FOR FUEL. FRS CAT I. SHOW MEK ON LAND BAN.

0000888 SPECIAL NOTICE
PROPER SHIPPING DESCRIPTION WAS BASED ON SURVEY INFORMATION RATHER THAN ANALYSIS. SEE COMMENTS FOR DETAILS AND NOTICES.

THIS SERVES AS NOTICE PER, 40CFR264.12(B), THAT THE FACILITY(IES) NOTED ABOVE HAS THE APPROPRIATE PERMITS AND IS WILLING TO RECEIVE THE MATERIAL DESCRIBED.

R2271 (RUN 07/23/90)

SAFETY-KLEEN CORP.
PREQUALIFICATION EVALUATION
MATERIAL ANALYSIS

REVISED : 07/23/
CONTROL#: 004600
SAMPLE# : 049658

* * REVISED * *

ACCEPT

NO ATTACHMENT

FLUID RECOVERY
FALCON JET

** F L U I D R E C O V E R Y **

GENERAL ANALYSIS OF TOTAL SAMPLE

COLOR	: BROWN/BROWN
WATER CONTENT	: 6.1 WT%
NON-VOLATILE RESIDUE	: 38.2 WT%
FLAMMABILITY	: NO FLASH AT 142 F BY SETAFLASH
PH	: EXTRACT BY PAPER 7.0
RADIOACTIVITY	: NONE DETECTED

FUEL EVALUATION OF TOTAL SAMPLE

HEAT CONTENT:		17200 BTU/LB	ASH UPON COMBUSTION:		0.4 WT%
TOTAL CHLORINE	CL:	0.7 WT%	TOTAL BROMINE	BR: <	0.1 WT%
TOTAL FLUORINE	F : <	0.1 WT%	TOTAL SULFUR	S :	0.2 WT%

GENERAL COMPOSITION:

	SPECIFIC GRAVITY	VISCOSITY (CENTIPOISE)	GENERAL COMPOSITION BY: APPEARANCE (VOL%)	TOTAL (WT %)
AQUEOUS PHASE (FREE WATER)			0.0	0.0
ORGANIC PHASE (FEEDSTOCK)			95.0	95.0
BOTTOM SLUDGE (SEMISOLIDS)			0.0	0.0
BOTTOM SOLID (SETTLED SOLIDS)			5.0	5.0
TOTAL	.880	< 50 CPS	100.0	100.0

SPECIFIC COMPOSITION OF TOTAL SAMPLE

COMPOSITION OF:	TOTAL SAMPLE (WT%)	TOTAL SAMPLE (WT%)
WATER CONTENT	6.1	6.1
NON-VOLATILE RESIDUE	38.2	38.2
VOLATILE ORGANICS BY DIFFERENCE	55.7	55.7
TOTAL	100.0	100.0

VOLATILE ORGANIC COMPOSITION OF TOTAL SAMPLE BY GAS CHROMATOGRAPHY

SAMPLE PREPARATION METHODS:
DETECTION METHODS : FID

COMPOUND NAME	COMPOSITION OF: CODE	CAS NUMBER	VOLATILE ORGANICS (WT%)	VOLATILE ORGANICS (WT%)	TOTAL SAMPLE (WT%)
HIGH-BOILING ALIPHATIC HYDROCARBONS (C14-C20)	HHC	0-34-0	71.4	71.4	39.8
MEDIUM-BOILING ALIPHATIC HYDROCARBONS (C9-C13)	MHC	8030-30-6	28.6	28.6	15.9
TOTAL			100.0	100.0	55.7

SUMMARY OF VOLATILE ORGANIC COMPOSITION BY COMPOUND CHEMICAL CLASS WT%:

ALCOHOLS	ALIPHATIC HYDROCARBONS	100.0
AROMATIC HYDROCARBONS	CHLORINATED SOLVENTS	
ESTERS	ETHERS	
GLYCOL ETHERS	INHIBITORS	
KETONES	NITROGEN COMPOUNDS	

SPECIFIC ORGANIC COMPOSITION

POLYCHLORINATED BIPHENYLS (PCBS): NONE DETECTED <

ADDITIONAL ANALYTICAL INFORMATION: NVR SLUDGE

LABORATORY REVIEW: A
LEVEL: SEG CODE: RELEASED: 10/06/89
LAB REVIEWERS: LC LC ANALYZED: 10/06/89

TRACKING INFORMATION:

	DATE	FACILITY
SURVEY RECEIVED :	09/21/89	SK TECHNICAL CEN
SAMPLE RECEIVED :	09/21/89	
RESAMPLE SHIPPED :		
RESAMPLE RECEIVED:		

THE ANALYSES CONTAINED HEREIN ARE PERFORMED SOLELY FOR THE PURPOSE OF QUALIFYING THE ANALYZED MATERIALS FOR ACCEPTANCE BY SAFETY-KLEEN IN ACCORDANCE WITH ITS PERMITS AND PROCESSING CAPABILITY.

R E V I S I O N N O T E S ** (07/23/90) **
(0001) UPDATED REVIEW. RG
NOTICE OF LAND DISPOSAL RESTRICTION OF WASTE IS REQUIRED UNDER 40 CFR PART 268.

NOTICE OF LAND DISPOSAL RESTRICTION OF WASTE

TO: SAFETY-KLEEN CORP
1200 SYLVAN ST
LINDEN NJ 07036

EPA ID No.: NJD002182897

Under manifest number NJA0915133 line number 11A (enter 11a, 11b, 11c, or 11d) the generator noted below is shipping to you a waste determined to be restricted under 40 CRF Part 268. In accordance with 40 CFR 268.7, the generator hereby provides notice that the waste is restricted and the EPA waste type and the appropriate treatment standards are as follows:

EPA Waste Type: F005

RESTRICTED CONSTITUENTS	TREATMENT STANDARDS (mg/l) Wastewater w/Solvents	All Other Solvent Waste	Check All That Apply
Acetone		0.59	
n-Butyl alcohol	0.05	5.0	
Carbon disulfide	5.0	4.81	
Carbon tetrachloride	1.05	0.96	
Chlorobenzene	0.05	0.05	
Cresols (and cresylic acid)	0.15	0.75	
Cyclohexanone	2.82	0.75	
1,2-dichlorobenzene	0.125	0.125	
Ethyl acetate	0.68	0.75	
Ethyl benzene	0.05	0.053	
Ethyl ether	0.05	0.75	
Isobutanol	0.05	5.0	
Methanol	5.0	0.75	
Methylene chloride	0.25	0.96	
Methylene chloride(from pharmaceutical industry)	0.20	0.96	
Methyl ethyl ketone	12.7	0.75	
Methyl isobutyl ketone	0.05	0.33	
Nitrobenzene	0.05	0.125	
Pyridine	0.66	0.33	
Tetrachloroethylene	1.12	0.05	
Toluene	0.079	0.33	
1,1,1-Trichloroethane	1.12	0.41	
1,1,2-Trichloro - 1,2,2 trifluroethane	1.05	0.96	
Trichloroethylene	1.05	0.091	
Trichlorofluoromethane	0.062	0.96	
Xylene	0.05	0.15	
Halogenated Organic Compounds	0.05		
Free Cyanides	1000.0	1000.0	
Arsenic (As)	1000.0	1000.0	
Cadmium (Cd)	500.0	500.0	
Chromium (Cr VI)	100.0	100.0	
Lead (Pb)	500.0	500.0	
Mercury (Hg)	500.0	500.0	
Nickel (Ni)	20.0	20.0	
Selenium (Se)	134.0	134.0	
Thallium (Tl)	100.0	100.0	
	130.0	130.0	

Generator Name: FALCON JET EPA ID: NJD981491509

Generator Representative Signature: X Robert Wesanko

Name & Title of Representative: X Robert Wesanko MAINT. TECH.
(print or type)

S-K Sample Number: 049658

CONTROL # 0046003

TS0001 (REV. B - 12/20/89)

I CE OF LAND DISPOSAL RESTRICTION OF STE

TO: SAFETY-KLEEN CORP EPA ID NO: NJD002182897

1200 SYLVAN ST

LINDEN NJ 07036

Under manifest number NSA106085 line number 11C (enter 11a, 11b, 11c, OR 11d) the Generator noted below is shipping to you a waste determined to be restricted under 40 CRF Part 268. In accordance with 40 CFR 268.7, the generator hereby provides notice that the waste is restricted and the EPA waste code and the appropriate treatment standards are as follows:

EPA Waste Codes: **F001**

F001-F005 Spent Solvents

Regulated Hazardous Constituent	TREATMENT STANDARDS (mg/l) Wastewater w/Solvents	All Other Solvent Wastes	Check All That Apply
Acetone	0.05	0.59	
Benzene	0.07	3.7	
n-Butyl alcohol	5.0	5.0	
Carbon disulfide	1.05	4.81	
Carbon tetrachloride	0.05	0.96	
Chlorobenzene	0.15	0.05	
Cresols (and creslyic acid)	2.82	0.75	
Cyclohexanone	0.125	0.75	
1,2-Dichlorobenzene	0.68	0.125	
Ethyl acetate	0.05	0.75	
Ethyl benzene	0.05	0.053	
Ethyl ether	0.05	0.75	
Isobutanol	5.0	5.0	
Methanol	0.25	0.75	
Methylene chloride	0.2	0.96	
Methylene chloride(from Pharm. industry)	0.44	0.96	
Methyl ethyl ketone	0.05	0.75	
Methyl isobutyl ketone	0.05	0.33	
Nitrobenzene	0.65	0.125	
Pyridine	1.12	0.33	
Tetrachloroethlyene	0.079	0.05	
Toluene	1.12	0.33	
1,1,1-Trichloroethane	1.05	0.41	X
1,1,2-Trichloroethane	0.03	7.6	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.05	0.96	
Trichlorethylene	0.062	0.091	
Trichlorofluoromethane	0.05	0.96	
Xylene	0.05	0.15	

California List Prohibited Wastes	Level (mg/l)	Treatment Standard	
Halogenated Organic Compounds	1000.0	Incineration	
Arsenic (As) Nonwastewaters	500.0	None	
Mercury (Hg) Nonwastewaters	20.0	None	
Nickel (Ni)	134.0	None	
Thallium (Tl)	130.0	None	
Chlorinated Biphenyls (PCB's)	50.0	Incineration	

These treatment standards do not preclude solvent recovery prior to disposal. Subsequent disposal of unrecovered waste is subject to these standards

Waste Descriptions and/or Treatment Subcategory

Waste Code	Description	Treatment Standards Reference in 40 CFR and Technology Codes for 40 CFR 268.42(a) Wastewaters	Nonwastewaters	Check All That Apply
D001:	Wastewaters (<1.0 wt% TOC and TSS)	268.42(a) DEACT	NA	
	Low TOC Ignitable Liquids (<10 wt% TOC)	NA	268.42(a) DEACT	
	High TOC Ignitable Liquids (>10 wt% TOC)	NA	268.42(a) RORGS, FSUBS, or INCIN	
D002	Corrosives, all subcategories & CA list	268.42(a) DEACT	268.42(a) DEACT	
D004	Arsenic (As)	268.43(a)	268.41(a)	Variance until 5-8-92
D005	Barium (Ba)	268.43(a)	268.41(a)	
D006	Cadmium (Cd)	268.43(a)	268.41(a)	
D007	Chromium (Cr)	268.43(a)	268.41(a)	
D008	Lead (Pb)	268.43(a)	268.41(a)	
D009:	Low Mercury Subcategory (<260 ppm Hg)	268.43(a)	268.41(a)	Variance until 5-8-92
	High Mercury Subcategory (>=260 ppm Hg)	268.43(a)	268.42(a) RMERC	Variance until 5-8-92
D010	Selenium (Se)	268.43(a)	268.41(a)	
D011	Silver (Ag)	268.43(a)	268.41(a)	
Other Codes	See attachment for supplemental list			

Generator Name: FALCON JET EPA ID: NJD134869551

Generator Representative Signature: [signature]

Name & Title of Representative:

Safety-Kleen Sample Number: 111167 Control Number: 0077409

NOTE: The USEPA has not [illegible] treatment standards for the new TCLP EPA Waste Numbers: D016 through D043

NOTICE OF LAND DISPOSAL RESTRICTION OF WASTE

TO: SAFETY-KLEEN CORP EPA ID NO: NJD002182897

1200 SYLVAN ST

LINDEN NJ 07036

Under manifest number NJA606965 line number 11B (enter 11a, 11b, 11c, OR 11d) the Generator noted below is shipping to you a waste determined to be restricted under 40 CRF Part 268. In accordance with 40 CFR 268.7, the generator hereby provides notice that the waste is restricted and the EPA waste code and the appropriate treatment standards are as follows:

EPA Waste Codes: **F002 D001**

F001-F005 Spent Solvents

Regulated Hazardous Constituent	TREATMENT STANDARDS (mg/l) Wastewater w/Solvents	All Other Solvent Wastes	Check All That Apply
Acetone	0.05	0.59	___
Benzene	0.07	3.7	___
n-Butyl alcohol	5.0	5.0	___
Carbon disulfide	1.05	4.81	___
Carbon tetrachloride	0.05	0.96	___
Chlorobenzene	0.15	0.05	___
Cresols (and cresylic acid)	2.82	0.75	___
Cyclohexanone	0.125	0.75	___
1,2-Dichlorobenzene	0.68	0.125	___
Ethyl acetate	0.05	0.75	X
Ethyl benzene	0.05	0.053	___
Ethyl ether	0.05	0.75	___
Isobutanol	5.0	5.0	___
Methanol	0.25	0.75	___
Methylene chloride	0.2	0.96	___
Methylene chloride(from Pharm. Industry)	0.44	0.96	___
Methyl ethyl ketone	0.05	0.75	X
Methyl isobutyl ketone	0.05	0.33	___
Nitrobenzene	0.65	0.125	___
Pyridine	1.12	0.33	___
Tetrachloroethlyene	0.079	0.05	___
Toluene	1.12	0.33	X
1,1,1-Trichloroethane	1.05	0.41	X
1,1,2-Trichloroethane	0.03	7.6	___
1,1,2-Trichloro-1,2,2-trifluoroethane	1.05	0.96	___
Trichlorethylene	0.062	0.091	___
Trichlorofluoromethane	0.05	0.96	___
Xylene	0.05	0.15	___

California List Prohibited Wastes	Level (mg/l)	Treatment Standard	
Halogenated Organic Compounds	1000.0	Incineration	___
Arsenic (As) Nonwastewaters	500.0	None	___
Mercury (Hg) Nonwastewaters	20.0	None	___
Nickel (Ni)	134.0	None	___
Thallium (Tl)	130.0	None	___
Chlorinated Biphenyls (PCB's)	50.0	Incineration	___

These treatment standards do not preclude solvent recovery prior to disposal. Subsequent disposal of unrecovered waste is subject to these standards.

Waste Descriptions and/or Treatment Subcategory

Waste Code	Description	Treatment Standards Reference in 40 CFR and Technology Codes for 40 CFR 268.42(a) Wastewaters		Nonwastewaters	Check All That Apply
D001:	Wastewaters (<1.0 wt% TOC and TSS)	268.42(a) DEACT	___	NA	
	Low TOC Ignitable Liquids (<10 wt% TOC)	NA		268.42(a) DEACT	___
	High TOC Ignitable Liquids (>10 wt% TOC)	NA		268.42(a) RORGS, FSUBS, or INCIN	X
D002	Corrosives, all subcategories & CA list	268.42(a) DEACT	___	268.42(a) DEACT	___
D004	Arsenic (As)	268.43(a)	___	268.41(a)	___ Variance until 5-8-92
D005	Barium (Ba)	268.43(a)	___	268.41(a)	___
D006	Cadmium (Cd)	268.43(a)	___	268.41(a)	___
D007	Chromium (Cr)	268.43(a)	___	268.41(a)	___
D008	Lead (Pb)	268.43(a)	___	268.41(a)	___
D009:	Low Mercury Subcategory (<260 ppm Hg)	268.43(a)	___	268.41(a)	___ Variance until 5-8-92
	High Mercury Subcategory (>=260 ppm Hg)	268.43(a)	___	268.42(a) RMERC	___ Variance until 5-8-92
D010	Selenium (Se)	268.43(a)	___	268.41(a)	___
D011	Silver (Ag)	268.43(a)	___	268.41(a)	___
Other Codes	See attachment for supplemental list		___		___

Generator Name: FALCON JET EPA ID: NJD134869551

Generator Representative Signature: David T. Fabry

Name & Title of Representative:

Safety-Kleen Sample Number: 111166 Container Number: 0077373

NOTE: The LDR [illegible] treatment [illegible] Waste Numbers: D018 through D043.

NOTICE OF LAND DISPOSAL RESTRICTION OF WASTE

SAFETY-KLEEN CORP EPA ID NO: KYD053348108

STATE HWY 146

NEW CASTLE KY 40050

Under manifest number NJA106086 line number 11A (enter 11a, 11b, 11c, OR 11d) the Generator noted below is shipping to you a waste determined to be restricted under 40 CRF Part 268. In accordance with 40 CFR 268.7, the generator hereby provides notice that the waste is restricted and the EPA waste code and the appropriate treatment standards are as follows:

EPA Waste Codes: **F002**

F001-F005 Spent Solvents	TREATMENT STANDARDS (mg/l) Wastewater w/Solvents	All Other Solvent Wastes	Check All That Apply
Acetone	0.05	0.59	
Benzene	0.07	3.7	
n-Butyl alcohol	5.0	5.0	
Carbon disulfide	1.05	4.81	
Carbon tetrachloride	0.05	0.96	
Chlorobenzene	0.15	0.05	
Cresols (and cresylic acid)	2.82	0.75	
Cyclohexanone	0.125	0.75	
1,2-Dichlorobenzene	0.68	0.125	
Ethyl acetate	0.05	0.75	
Ethyl benzene	0.05	0.053	
Ethyl ether	0.05	0.75	
Isobutanol	5.0	5.0	
Methanol	0.25	0.75	
Methylene chloride	0.2	0.96	X
Methylene chloride(from Pharm. Industry)	0.44	0.96	
Methyl ethyl ketone	0.05	0.75	
Methyl isobutyl ketone	0.05	0.33	
Nitrobenzene	0.65	0.125	
Pyridine	1.12	0.33	
Tetrachloroethlyene	0.079	0.05	X
Toluene	1.12	0.33	
1,1,1-Trichloroethane	1.05	0.41	
1,1,2-Trichloroethane	0.03	7.6	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.05	0.96	
Trichlorethylene	0.062	0.091	
Trichlorofluoromethane	0.05	0.96	
Xylene	0.05	0.15	

California List Prohibited Wastes	Level (mg/l)	Treatment Standard	
Halogenated Organic Compounds	1000.0	Incineration	
Arsenic (As) Nonwastewaters	500.0	None	
Mercury (Hg) Nonwastewaters	20.0	None	
Nickel (Ni)	134.0	None	
Thallium (Tl)	130.0	None	
Chlorinated Biphenyls (PCB's)	50.0	Incineration	

These treatment standards do not preclude solvent recovery prior to disposal. Subsequent disposal of unrecovered waste is subject to these standards

Waste Descriptions and/or Treatment Subcategory		Treatment Standards Reference in 40 CFR and Technology Codes for 40 CFR 268.42(a) Wastewaters		Nonwastewaters		Check All That Apply
D001:	Wastewaters (<1.0 wt% TOC and TSS)	268.42(a) DEACT		NA		
	Low TOC Ignitable Liquids (<10 wt% TOC)	NA		268.42(a) DEACT		
	High TOC Ignitable Liquids (>10 wt% TOC)	NA		268.42(a) RORGS, FSUBS, or INCIN		
D002	Corrosives, all subcategories & CA list	268.42(a) DEACT		268.42(a) DEACT		
D004	Arsenic (As)	268.43(a)		268.41(a)		Variance until 5-8-92
D005	Barium (Ba)	268.43(a)		268.41(a)		
D006	Cadmium (Cd)	268.43(a)		268.41(a)		
D007	Chromium (Cr)	268.43(a)		268.41(a)		
D008	Lead (Pb)	268.43(a)		268.41(a)		
D009:	Low Mercury Subcategory (<260 ppm Hg)	268.43(a)		268.41(a)		Variance until 5-8-92
	High Mercury Subcategory (>=260 ppm Hg)	268.43(a)		268.42(a) RMERC		Variance until 5-8-92
D010	Selenium (Se)	268.43(a)		268.41(a)		
D011	Silver (Ag)	268.43(a)		268.41(a)		
Other Codes	See attachment for supplemental list					

Generator Name: FALCON JET EPA ID: NJD134869551

Generator Representative Signature: Paul T. Fisher

Name & Title of Representative:

Safety-Kleen Sample Number: 111165 Control Number: 0077365

NOTE: The USEPA has not determined treatment standards for the new TCLP (F- Waste Numbers D018 through D043.

safety-kleen corp.

DUNS NO. 05106-0408 FOR SERVICE CALL

FED. ID NO. 39-6090019

777 BIG TIMBER ROAD • ELGIN, ILLINOIS 60123 914-288-4477 TRANSPORTER RICK MARTIN

SCHEDULED SERVICE WEEK	SCHEDULED SERVICE TERRITORY	REFERENCE NUMBER
90- 48	X250	752475

MANIFEST NUMBER NJA 1660869

2-116-01-9378-7 LOR NOT REQ'D 0-220 NJ

FALCON JET
ATTN JERRY
90 MOONACHIE AVE
MOONACHIE NJ 07074
PRICES EFFECTIVE 10/07/90

2-116-01-0450
FALCON JET
TETERBORO AIRPORT
TETERBORO NJ 07608

SERVICE DATE	SALESMAN'S NO.	SALES SPECIALIST	SALES TAX EXEMPTION NUMBER	HANDLING CODE	CREDIT CODE		PREVIOUS BALANCE	PORTION OVER 60 DAYS
11/30/90	3985	XXXX		T	8		1417.98	9.25

USINESS TYPE	CHAIN	CUSTOMER P.O. NUMBER	GENERATOR/CUSTOMER PHONE #		O.C.	SVC P/S	PROD. P/S	SERVICE TAX	C.O.M.S. TAX	PRODUCT TAX
09	NO		201-288-5300	NO	NO	721	001	.07	.07	.07

MACHINE NUMBER	SERVICE CHARGE	SALES TAX	TOTAL CHARGE	SERVICE TERM	CHANGE SERVICE TERM	CHANGE SCHEDULE DATE	REMARKS 0383
20-88888	.00	.00	.00	04			FLUID RECOVERY SERV

	GOOD	POOR
MACHINE CONDITION & CLEANLINESS	☐	☐
LAMP ASSEMBLY CONDITION	☐	☐
	YES	NO
DECALS IN PLACE AND LEGIBLE	☐	☐
FUSIBLE LINK INSTALLED	☐	☐
EMERGENCY CLOSING OF LID UNOBSTRUCTED	☐	☐
MACHINE PROPERLY GROUNDED	☐	☐
LOCAL PHONE NO. STICKER AFFIXED TO MACHINE	☐	☐
SPENT SOLVENT MEETS ACCEPTANCE CRITERIA	☐	☐

TOTAL SERVICE SECTION

GENERATOR USA EPA ID NO. NJD134869551

GENERATOR STATE ID NO. 31-010-5424

"This is to certify that the below-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation."

CONTAINERS: PAILS NO. DM	SSPW TANKS DF	16 GAL NO. DM	30 GAL NO. DM	TOTAL LBS. OR GAL.	US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZARD CLASS, AND ID.)
					Waste Petroleum Naphtha Combustible Liquid, UN1255 (EPA, D001) (ERG #27)
					Waste Compound, Cleaning, Liquid Corrosive Material, NA1760 (EPA, F002) (ERG #60)
					Waste Compound, Cleaning, Liquid Corrosive Material, NA1760 (EPA, D027) (ERG #60)

I certify that my total waste streams are within one of the following categories:

0 to 220 lbs./month _____ Initials

220 lbs. to 2,200 lbs./month _____ Initials

Greater than 2,200 lbs./month _____ Initials

Total Quantity = Number of Drums x Ave. Wt/Drum of: Pails 35.0, SSPW TANKS 27, 16 Gal. 45, 30 Gal. 86

DESIGNATED FACILITY NAME AND ADDRESS: SAFETY-KLEEN CORP.
1200 SYLVAN ST LINDEN NJ 07036

USA EPA ID NO. NJD002182897

STATE ID NO.

SERVICE/SALES ACKNOWLEDGEMENT

SOLD ON PREVIOUS SERVICES: 2 PRIOR	PRIOR	LAST	PRODUCT NUMBER	DESCRIPTION	PRICE	U/M	QUANTITY DELIVERED	SALES AMOUNT	TAX	LINE TOTAL
		3	82100	SAMPLE ANALYSIS	385.00	EA				
3	2		82101	WASTE,SPECIFIC FU	185.00	DR				
1			82108	WASTE,INCINERATIO	935.00	DR				
			82102	WASTE,NON-SPEC FU	365.00	DR	2	730	51.10	781.10
			82103	WASTE,RECLAIMABLE	125.00	DR	2	250	17.50	267.50
			82104	WASTE,NON-SPEC		DR				
			82107	OIL,WASTE-55 GL	110.00	DR				
UC PRICE INCREASE DUE TO RISING OIL COSTS										

PAYMENT RECEIVED SECTION

CASH ☐ CHECK NUMBER

TOTAL RECEIVED

APPLY PAYMENT TO:
☐ TODAYS SERVICE/SALE
☐ PREVIOUS BALANCE AS FOLLOWS

INV. # _____ AMOUNT $ _____
INV. # _____ AMOUNT $ _____
INV. # _____ AMOUNT $ _____

IN EVENT OF EMERGENCY CALL

TOTAL PRODUCT AMOUNTS		1048.60
TOTAL SERVICE AMOUNT (FROM ABOVE)		
TOTAL DUE		1048.60

CHARGE MY ACCOUNT FOR THIS TRANSACTION UNLESS OTHERWISE INDICATED IN THE PAYMENT RECEIVED SECTION. ALSO I HAVE NOTED THE MACHINE INSPECTION SECTION ABOVE AND THE PRESENCE OF MACHINE, SOLVENT AND RECLAMATION AGREEMENT INFORMATION ON THE REVERSE SIDE THE ABOVE AMOUNT IS SUBJECT TO AN INTEREST CHARGE OF THE LESSOR OF 1½% PER MONTH (18% PER ANNUM) OR THE MAXIMUM RATE ALLOWED BY LAW ON ANY UNPAID INVOICES THAT

IN THE EVENT OF DEFAULT, SAFETY-KLEEN SHALL BE ENTITLED TO RECOVER COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY'S FEES

X _____

2-118-01

State of New Jersey
De ment of Environmental Protection
Divis.on of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

type or int i. lock letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJD 981491509 | Manifest Document No. 44843 | 2. Page 1 of 1. | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
FALCON JET
ATTN GEORGE REGE
TETERBORO 113 BILLY DIEHL RD NJ 07608

4. Generator's Phone (201) 288-5300

A. State Manifest Document Number NJA 1101643

B. State Generator's ID SAME

5. Transporter 1 Company Name SAFETY-KLEEN CORP. | 6. US EPA ID Number ILD 051060408 | C. State Trans. ID E28753

7. Transporter 2 Company Name | 8. US EPA ID Number | D. Transporter's Phone (914) 268-4477

E. State Trans. ID

9. Designated Facility Name and Site Address
SAFETY-KLEEN CORP.
1200 SYLVAN ST
LINDEN NJ 07036

10. US EPA ID Number
0-006-35
NJD 002182897

F. Transporter's Phone ( )

G. State Facility's ID 2009C1

H. Facility's Phone (201) 862-2000

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X RQ WASTE COMBUSTIBLE LIQUID, N.O.S. (METHYL ETHYL KETONE) NA1993 (F005)(ERG#27)	01	DM	1612	P	F005
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
56 [illegible] HYDROCARBONS
2 [illegible] JET FUEL

K. Handling Codes for Wastes Listed Above
a. X b. c. d.

15. Special Handling Instructions and Additional Information
11a.CONT#0046003-2 SAM#049658 9040 19822758 044843 2-118-01-9282 5003
EMERGENCY RESP#1-708-888-4660 EPA# 32879
SKDOT# A: 3021 B: C: D:

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: X Robert A. Wasiento / Reg | Signature: X Robert A. Wasiento Reg | Month Day Year: 10 24 90

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: STEVEN BRYANT | Signature: Steven Bryant | Month Day Year: 10 24 90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Ye

19. Discrepancy Indication Space
LINE 15 EPA # 32877

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Month Day Ye

Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

· TSD MAIL TO - TSD'S STATE

SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

VHW-001 (REV. 9/86)

2-118-01

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

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Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJD 981491509 — Manifest Document No. 44843
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
FALCON JET
ATTN GEORGE REGE
TETERBORO NJ 07608
113 BILLY DIEHL RD

4. Generator's Phone (201) 288-5300

A. State Manifest Document Number: **NJA 1101643**

B. State Generator's ID: SAME

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.
6. US EPA ID Number: ILD 051060408

C. State Trans. ID: E28753

7. Transporter 2 Company Name
8. US EPA ID Number

D. Transporter's Phone (914 258-4477

E. State Trans. ID

9. Designated Facility Name and Site Address
SAFETY-KLEEN CORP.
1200 SYLVAN ST
LINDEN NJ 07036
10. US EPA ID Number: 0-006-35 NJD 002182897

F. Transporter's Phone ( )

G. State Facility's ID: 200901

H. Facility's Phone (201 862-2000

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X	RQ WASTE COMBUSTIBLE LIQUID, N.O.S. (METHYL ETHYL KETONE) NA1993 (F005)(ERG#27)	04	DM	1612	P	F005
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
56% ALIPHATIC HYDROCARBONS
6% WATER 38% JET FUEL
a. c.
b. d.

K. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information
11a.CONT#0046003-2 SAM#049658 9040 19822758 044843 2-118-01-9282 5003
EMERGENCY RESP#1-708-888-4660 EPA# 32870
SKDOT# A: 3021 B: C: D:

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Robert A. Wasienko / Rege — Signature: Robert A. Wasienko / RR — Month Day Year: 10 24 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: STEVEN BRYANT — Signature: Steven Bryant — Month Day Year: 10 24 90

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Month Day Year

EPA Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

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VHW-001 (REV. 9/86)

2-118-01

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

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Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. [illegible] Manifest Document No. 44843
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
FALCON JET
ATTN GEORGE REGE 113 BILLY DIEHL RD
TETERBORO NJ 07608

4. Generator's Phone (201) 288-5300

A. State Manifest Document Number **NJA 1101643**

B. State Generator's ID SAME

5. Transporter 1 Company Name SAFETY-KLEEN CORP
6. US EPA ID Number ILD 051060408

C. State Trans. ID E28753

7. Transporter 2 Company Name
8. US EPA ID Number

D. Transporter's Phone (914 268-4477

E. State Trans. ID

9. Designated Facility Name and Site Address
1200 SYLVAN ST
LINDEN NJ 07036

10. US EPA ID Number 0-006-35
NJD 002182897

F. Transporter's Phone (E00701

G. State Facility's ID

H. Facility's Phone (201 862-2000

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X	RQ WASTE COMBUSTIBLE LIQUID, N.O.S. (METHYL ETHYL KETONE) NA1993 (F005)(ERG#27)	04	DM	1612	P	F005
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
50% ALIPHATIC HYDROCARBONS
6% WATER 38% JET FUEL

a. c.
b. d.

K. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information
11a.CONT#0046003-2 SAM#049658 9040 19822759 044843 2-118-01-9282 5003
EMERGENCY RESP#1-708-886-4660 EPA# 32870
SKDOT# A: 3021 B: C: D:

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; **OR,** if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Robert A. Wasienko / Rege
Signature: [signature] Month Day Year: 10 24 90

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: STEVEN BRYANT
Signature: [signature] Month Day Year: 10 24 90

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Month Day Year

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

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7 — GENERATOR MAIL TO - GENERATOR STATE

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

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Form Approved. OMB No. 2050-0039. Expires 9-30-88

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No. | 2. Page 1 of | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address

4. Generator's Phone ( )

5. Transporter 1 Company Name | 6. US EPA ID Number

7. Transporter 2 Company Name | 8. US EPA ID Number

9. Designated Facility Name and Site Address | 10. US EPA ID Number

A. State Manifest Document Number: NJA 0426725

B. State Generator's ID

C. State Trans. ID

D. Transporter's Phone ( )

E. State Trans. ID

F. Transporter's Phone ( )

G. State Facility's ID

H. Facility's Phone ( )

GENERATOR

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	WASTE OIL NOS					X726
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above

a. | c.

b. | d.

K. Handling Codes for Wastes Listed Above

a. | c.

b. | d.

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name | Signature | Month Day Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Edward H Petrosky | Signature | Month Day Year: 10/21/87

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

DESIGNATED FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name | Signature | Month Day Year

EPA Form 8700-22 (Rev. 9-86) Previous editions are obsolete.

8 — GENERATOR COPY

SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

Please print or type. (Form designed for use on elite (pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. [illegible] Manifest Document No. [illegible]

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
FALCON JET
113 BILLY DIEHL ROAD
TETERBORO NJ 07808

4. Generator's Phone (201 288-5300)

A. State Manifest Document Number NJAD5956286

B. State Generator's ID [illegible]

5. Transporter 1 Company Name CONTINENTAL CARRIERS CORP

6. US EPA ID Number [illegible]

C. State Transporter's ID [illegible]

D. Transporter's Phone [illegible]

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID [illegible]

F. Transporter's Phone

9. Designated Facility Name and Site Address [illegible]

10. US EPA ID Number [illegible]

G. State Facility's ID

H. Facility's Phone 201 [illegible]

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X	[illegible] COMBUSTIBLE LIQUID (X726)	018	[illegible]	990	G	X 7 2 6
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Jet fuel 65%
Oil 30%
Water 5%

K. Handling Codes for Wastes Listed Above
T 5 0

15. Special Handling Instructions and Additional Information
A. [illegible]

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name [illegible] Signature [illegible] Date Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name [illegible] Signature [illegible] Date Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name Signature Date Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name Signature Month Day Year

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9-88) previous editions obsolete

SAFETY-KLEEN CORP.

90290

6

U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-91

1. UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. NJD981491509	Manifest Document No. 92254	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Falcon Jet
113 Billy Diehl Rd.
Teterboro N.J. 07608

4. Generator's Phone 201-288-5500

A. State Manifest Document Number 0/09 NJA 0628815

B. State Generator's ID SAME

5. Transporter 1 Company Name: Safety Kleen Corp.
6. US EPA ID Number: NJD 091060405
C. State Trans. ID
7. Transporter 2 Company Name
8. US EPA ID Number
D. Transporter's Phone (914-255-4477
E. State Trans. ID

9. Designated Facility Name and Site Address
Safety Kleen Corp.
1200 Sylvan St.
Linden N.J. 07036
10. US EPA ID Number: NJD 000182287
F. Transporter's Phone ( )
G. State Facility's ID 200901
H. Facility's Phone (201) 862-2000

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	*	~~RQ Waste Paint Related Material~~ RQ Waste Combustible Liquid N.O.S. NA1993 (EPA D001)		DM	P	D001
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
Aliphatic Hydrocarbons 100.0
a. c.
b. d.

K. Handling Codes for Wastes Listed Above
a. H c.
b. d.

15. Special Handling Instructions and Additional Information
SG-42 M92234 I-118-01-9120 Sample # D49658, Control# 045093
SK DOT# At ~~NJ444 00000295~~

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name | Signature | Month Day Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Discrepancy Indication Space
STATE MANIFEST DOCUMENT # CHANGED PER NANCY POWER, CHIEF BUREAU OF MANIFEST & INFORMATION SYSTEMS, NJ.
MANIFEST DOCUMENT # PREFIX = NJAA

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name | Signature | Month Day Year

EPA Form 8700-22 (Rev. 9/88) Previous editions are obsolete

SIGNATURE AND INFORMATION MUST BE LEGIBLE ON ALL COPIES

NJA 0628815

FalconJet®

January 10, 1991

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028
Trenton, New Jersey 08625

SUBJECT: FALCON JET CORPORATION -
US EPA ID NO. NJD 981491509
Reference: State Manifest Document
Number NJA1040888

Gentlemen:

Enclosed please find copies 6 and 7 of EPA Form 8700-22 of the referenced Manifest Document completed for the above captioned corporation.

Please contact the undersigned should you have any questions regarding the above.

Very truly yours,

FALCON JET CORPORATION

By _____
Peter S. Rothwell
Associate Counsel

PSR:meh
Enclosures
483

cc: Mr. G. Rege

Via Certified Mail #P524056551, Return Receipt Requested.

VHW-001 (REV. 9/86)

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJD981491509 Manifest Document No. 12894
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number NJA 1040888

B. State Generator's ID SAME

C. State Trans. ID NJDEP 6321-64036

D. Transporter's Phone (201) 347-2215

E. State Trans. ID

F. Transporter's Phone ( )

G. State Facility's ID N/A

H. Facility's Phone (201) 347-1909

3. Generator's Name and Mailing Address: FALCON JET, 113 BILLYDIEHL RD

4. Generator's Phone (201) 393-8135 TETERBORO, NJ 07608

5. Transporter 1 Company Name: ENVIRONMENTAL TRANSFER CORP

6. US EPA ID Number: NJD991291584

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address: ADVANCED ENVIRONMENTAL TECHNOLOGY CORP. 1 EDEN LN. FLANDERS, NJ 07836

10. US EPA ID Number: NJD980536593

GENERATOR

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X WASTE NITRIC ACID (OVER 40%) OXIDIZER UN2031	001	DM	00160	P	D001
b.	X WASTE PHOSPHORIC ACID CORROSIVE MATERIAL UN1805	001	DF	00160	P	D002
c.	WASTE CHEMICALS, N.O.S. DOT NON-REGULATED NONE	002	DM	00800	P	X900
d.						

J. Additional Descriptions for Materials Listed Above

a. L/I

b. L/C

c. L/- CLEANER W/SOAPS, POLYMER, LIQUID SULFONATES, WATER

d.

K. Handling Codes for Wastes Listed Above

a. c.

b. d.

15. Special Handling Instructions and Additional Information

LINE 1A ALSO EXHIBITS CHARACTERISTICS OF D002.
EMERGENCY CONTACT #1-800-424-9300
Packing slips attached for clarification of material

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: GEORGE F. BEGE

Signature: [signature] Month Day Year: 01 09 91

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: MIKE MURA

Signature: Mike Mura Month Day Year: 01 09 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature Month Day Year

EPA Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

SIGNATURE AND INFORMATION MUST BE LEGIBLE ON ALL COPIES

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-9

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJD981491509 Manifest Document No. 12094
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
FALCON JET
113 BILLYDIEHL RD
TETERBORO, NJ 07608

A. State Manifest Document Number NJA 1040888

4. Generator's Phone (201) 393-8135

B. State Generator's ID SAME

5. Transporter 1 Company Name
ENVIRONMENTAL TRANSFER CORP

6. US EPA ID Number NJD981821584

C. State Trans. ID 301-640-36

7. Transporter 2 Company Name

8. US EPA ID Number

D. Transporter's Phone (201) 347-221

9. Designated Facility Name and Site Address
ADVANCED ENVIRONMENTAL TECHNOLOGY CORP.
1 EDEN LN.
FLANDERS, NJ 07836

10. US EPA ID Number NJD980536573

E. State Trans. ID

F. Transporter's Phone ( )

G. State Facility's ID N/A

H. Facility's Phone (201) 347-1809

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X WASTE NITRIC ACID (OVER 40%) OXIDIZER UN2031	001	DM	00160	P	D002
b.	X WASTE PHOSPHORIC ACID CORROSIVE MATERIAL UN1805	001	DM	00110	P	D002
c.	WASTE CHEMICALS, N.O.S. D.O.T. NON-REGULATED NONE	001	DM	00055	P	X900
d.						

J. Additional Descriptions for Materials Listed Above
a. L/E
b. L/C
c. L/E CLEANER W/SOAP, POLISHER, ACID, SURFACTANTS, WATER
d.

K. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information
LINE IN ALL CARBONS MUST BE DARK.
EMERGENCY CONTACT 201-427-1300
Print Name and Title for Waste Generator

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: [illegible] Signature: [signature] Month Day Year: 01 03 91

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: MIKE MURA Signature: Mike Mura Month Day Year: 01 03 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Month Day Year:

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Signature: Month Day Year:

EPA Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

(609) 292-5560 (Day) (609) 292-7172 (Night)

FalconJet®

December 11, 1990

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028
Trenton, New Jersey 08625

SUBJECT: FALCON JET CORPORATION -
US EPA ID NO. NJD 981491509
Reference: State Manifest Document
Number NJA0915133

Gentlemen:

Enclosed please find copies 6 and 7 of EPA Form 8700-22 of the referenced Manifest Document completed for the above captioned corporation.

Please contact the undersigned should you have any questions regarding the above.

Very truly yours,

FALCON JET CORPORATION

By _____
Peter S. Rothwell
Associate Counsel

PSR:meh
Enclosures
437

cc: Mr. G. Rege

Via Certified Mail #P942868026, Return Receipt Requested.

Falcon Jet Corporation
Teterboro, New Jersey 07608 (201) 262-0800

RESTRICTED DELIVERY
5. Enter fees for the services requested in the appropriate space.
If receipt is requested, check the applicable blocks in item 1 of Form 3811.

State of New Jersey
Department of Environmental Protection
ivision of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJD 981491509 | Manifest Document No. 78838 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number: NJA 0915133

3. Generator's Name and Mailing Address
FALCON JET
113 BILLY DIEHL RD
PEDERSBORO NJ 07608 (201)288-5300

B. State Generator's ID: SAME

4. Generator's Phone

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.
6. US EPA ID Number: NJD053050408
C. State Trans. ID
D. Transporter's Phone: 914-268-4477

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Trans. ID

9. Designated Facility Name and Site Address: SAFETY-KLEEN CORP. 0-005-35
1200 SYLVAN ST.
LINDEN, NJ 07036
10. US EPA ID Number: NJD980881887
F. Transporter's Phone ( )
G. State Facility: 2009C1
H. Facility's Phone: 201-862-2000

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ WASTE COMBUSTIBLE LIQUID, N.O.S. (METHYL ETHYL KETONE)NA1993 (F005)(ERG#27)	X	03	DM	1207	P	F005
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
6% WATER 38% JET FUEL
16% ALIPHATIC HYDROCARBONS(C9-C26)
40% ALIPHATIC HDYROCARBONS(C14-C20)

K. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information: 116-01-9202, INV.#M73838 , WEEK
11a SAM#049650 CONTROL#0048003-2 11e SAM# CONTROL#
11b SAM# CONTROL# EMERG. RESP. # 1-708-888-4660
11c SAM# CONTROL# SKDOT# A:2021 B: C: D:

15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Robert Wasmuth FOR | Signature | Month Day Year: 11 27 91

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Steven Bunt | Signature | Month Day Year: 11 27 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name | Signature | Month Day Year

EPA Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

6 — GENERATOR MAIL TO - TSD'S STATE

Falconjet®

October 24, 1990

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028
Trenton, New Jersey 08625

SUBJECT: FALCON JET CORPORATION - US EPA ID NO. NJD981491509
Reference: State Manifest Document Number NJA1101643

Gentlemen:

Enclosed please find Copies 6 and 7 of EPA Form 8700-22 of the referenced Manifest Document completed for the above captioned corporation.

Please contact the undersigned should you have any questions regarding the above.

Very truly yours,

FALCON JET CORPORATION

By _____
Peter S. Rothwell
Associate Counsel

PSR:meh
Enclosures
364

cc: Mr. G. Rege

Via Certified Mail #P006255427, Return Receipt Requested.

Falcon Jet Corporation
Teterboro, New Jersey 07608 (201) 262-0800

RESTRICTED DELIVERY
5. Enter fees for the services requested in the appropriate spaces on the ... receipt is requested, check the applicable blocks in item 1 of Form 3811.

F+C

SAFETY-KLEEN

TO: NEW JERSEY D.E.P.
SOLID WASTE ADMINISTRATION
BOX CN028
TRENTON, N.J. 08625

FROM: SAFETY KLEEN CORP
PO Box 289
Congers NY 10920

IN REFERENCE: Falcon Jet
113 Billy Diehl Rd
Teterboro NJ 07608

MANIFEST #: NJA 1101643

DATED: 10/25/90

Dear Sir/Madam,

Safety-Kleen Corp located in Congers Branch 2-118-01 being the Transporter 1 and the TSDF, in this instance, has noted a discrepancy on the above referenced manifest document. The discrepancy is as follows:

Please note: Item 15 should show Trans EPA # 32877.

I have attached a copy of the manifest to this letter. Should you require any additional information regarding this shipment, please contact me at (914)268-4477. Thank you.

Eileen Sullivan
EILEEN SULLIVAN

Please keep letter on file.
Letter sent to NJS.

Transporter's Address

2-118-01

Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

Form Approved. OMB No. 2050-0039 Expires 9-30-91

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJD 981491509 | Manifest Document No. 044843 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
FALCON JET
ATTN GEORGE REGE
TETERBORO 113 BILLY DIEHL RD NJ 07608
Generator's Phone (201) 288-5300

A. State Manifest Document Number NJA 1101643

B. State Generator's ID SAME

4. Transporter 1 Company Name SAFETY-KLEEN CORP.
6. US EPA ID Number ILD 051060408
C. State Trans. ID E2853
D. Transporter's Phone (914) 268-4477

5. Transporter 2 Company Name
8. US EPA ID Number
E. State Trans. ID

9. Designated Facility Name and Site Address
SAFETY-KLEEN CORP.
1200 SYLVAN ST
LINDEN NJ 07036
10. US EPA ID Number 0-006-35 NJD 002182897
F. Transporter's Phone ( )
G. State Facility's ID 2009C1
H. Facility's Phone (201) 862-2000

HM	US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
X	RQ WASTE COMBUSTIBLE LIQUID, N.O.S. (METHYL ETHYL KETONE) NA1993 (F005)(ERG#27)	01	DM	1612	P	F005

J. Additional Descriptions for Materials Listed Above
a. 36% ALIPHATIC HYDROCARBONS
b. 36% JET FUEL
c.
d.

K. Handling Codes for Wastes Listed Above
a.
b.
c.
d.

15. Special Handling Instructions and Additional Information
11a.CONT#0046003-2 SAM#049658 9040 19822758 044843 2-118-01-9282 5003
EMERGENCY RESP#1-708-888-4660 EPA# 32877
SKDOT# A: 3021 B: C: D:

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name	Signature	Month	Day	Year
X Robert A. Wasienko / Rec	X Robert A. Wasienko	10	24	90

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
STEVEN BRYANT	Steven Bryant	10	24	90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space
LINE 15 EPA # 32877

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

- TSD MAIL TO - TSD'S STATE

FalconJet®

June 15, 1990

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028
Trenton, New Jersey 08625

SUBJECT: FALCON JET CORPORATION -
US EPA ID NO. NJD981491509
Reference: State Manifest Document Number NJA 0924748

Gentlemen:

Enclosed please find copies 6 and 7 of the referenced document which are forwarded pursuant to EPA Form 8700-22.

Please contact the undersigned should you have any questions regarding the above.

Thank you for your help in this matter.

Very truly yours,

FALCON JET CORPORATION

By
Peter S. Rothwell
Associate Counsel

PSR:meh
Enclosures

L-12-166-90-223

cc: Mr. George Rege

Via Certified Mail #524 056 411, Return Receipt Requested.

Teterboro, New Jersey 07608
201 288-5300

2-116-01

Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

Please print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
NJD 981491507	842088		

3. Generator's Name and Mailing Address	A. State Manifest Document Number
FALCON JET ATTN GEORGE REGE TETERBORO NJ 07608 4. Generator's Phone (201) 288-5300	NJA 0924748
	B. State Generator's ID: SAME
5. Transporter 1 Company Name: SAFETY-KLEEN CORP.	6. US EPA ID Number: ILD 051D80406
	C. State Trans. ID: NJ0473169Q
7. Transporter 2 Company Name	8. US EPA ID Number
	D. Transporter's Phone (914) 268-4477
	E. State Trans. ID
9. Designated Facility Name and Site Address: SAFETY-KLEEN CORP. 1200 SYLVAN ST LINDEN NJ 07036	10. US EPA ID Number: 0-006-35 NJD 002162597
	F. Transporter's Phone ( ) 200701
	G. State Facility's ID
	H. Facility's Phone (201) 862-2000

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X	RQ WASTE COMBUSTIBLE LIQUID, N.O.S. NA1993 (EPA D001) 1011	1	DM	0400	P	D001
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above

100% ALIPHATIC HYDROCARBONS

a. c.

b. d.

K. Handling Codes for Wastes Listed Above

a. c.

b. d.

15. Special Handling Instructions and Additional Information

11a. CONTROL# 046003 SAMPLE# 049059 164102B0 8042B8 2-116-01-7288 2003

EMERGENCY RESP#1-705-888-4650

SHOOT# A: 1011 B: C: D:

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name	Signature	Month Day Year
EGE		04 15 94

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
		04 15 94

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month Day Year

EPA Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

7 — GENERATOR MAIL TO - GENERATOR STATE

FalconJet®

March 26, 1990

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028
Trenton, New Jersey 08625

SUBJECT: FALCON JET CORPORATION -
US EPA ID NO. NJD981491509
Reference: State Manifest Document Number NJA 0800593

Gentlemen:

In accordance with the instructions which appear on EPA Form 8700-22, enclosed herewith are copies 6 and 7, both of which we request be filed with the State of New Jersey.

Please feel free to contact the undersigned should you have any questions regarding the above.

Thank you for your help in this matter.

Very truly yours,

FALCON JET CORPORATION

By Peter S. Rothwell
Peter S. Rothwell
Associate Counsel

PSR:meh
Enclosures

L-12-085-90-110

cc: Mr. George Rege

Via Certified Mail #524056357, Return Receipt Requested.

Teterboro, New Jersey 07608
201 288-5300

OFFICIAL
RESTRICTED DELIVERY on the front of the article.
... TO - TSD'S STATE
... INFORMATION MUST BE LEGIBLE ON ALL COPIES

2-118-01

Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

Type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJD 981157508 | Manifest Document No. 11483

2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
PALLAS SE
ATTN GEORGE REUS
TETERBORO NJ 07608
113 BILLY DIEHL RD

4. Generator's Phone (201 288-9000

A. State Manifest Document Number NJA 0800593

B. State Generator's ID SAME

5. Transporter 1 Company Name SAFETY-KLEEN CORP.

6. US EPA ID Number ILD 981994408

C. State Trans. ID NJDEP48.95

7. Transporter 2 Company Name

8. US EPA ID Number

D. Transporter's Phone (718) 288-4317

E. State Trans. ID

9. Designated Facility Name and Site Address
SAFETY-KLEEN CORP
1800 RYDER ST
LINDEN NJ 07036

10. US EPA ID Number
0-000-35
NJD 002182897

F. Transporter's Phone (201) 862-4

G. State Facility's ID

H. Facility's Phone (201) 862-2000

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X RQ WASTE CORROSIVE LIQUID N.O.S. NA 1993 (EPA D001) 1011	1	DM	1	P	D001
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
1 DRUM AROMATIC HYDROCARBONS

K. Handling Codes for Wastes Listed Above

a. | c.

b. | d.

15. Special Handling Instructions and Additional Information
ERG 140 2000 651483 E-118-01-7282 2003
I.D. CONTROL# 046003 SAMPLES 049609
EMERGENCY RESP#1-708-865-5660
ERDOT# A: 1011 B: C: D:

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name | Signature | Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Month Day Year

EPA Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

GENERATOR — GENERATOR MAIL TO - TSD'S STATE

SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

2-118-01

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

Type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. [illegible] Manifest Document No. 52479

2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
FALCON JET
ATTN JERRY
MOONACHIE
90 MOONACHIE AVE
NJ 07608

4. Generator's Phone (201) 288-5300

A. State Manifest Document Number: NJA 1060869

B. State Generator's ID: SAME

C. State Trans. ID: NJ4EPS

D. Transporter's Phone (201) 288-5300

E. State Trans. ID:

F. Transporter's Phone (800) 631-

G. State Facility's ID:

H. Facility's Phone (201) 862-2000

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.

6. US EPA ID Number: ILD 05105040S

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
1200 SYLVAN ST
LINDEN NJ 07036

10. US EPA ID Number
D-005-35
NJD 002182897

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) HM			12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a.	X	RQ WASTE COMBUSTIBLE LIQUID, N.O.S. (PETROLEUM DISTILLATE) NA1993 (F002)(ERG#27)	1	DM	458	P	F002
b.	X	RQ WASTE FLAMMABLE LIQUID, N.O.S. (PETROLEUM DISTILLATE UN1993 (F002)(ERG#27)	1	DM	430	P	F002
c.	X	WASTE 1,1,1-TRICHLOROETHANE ORM-A UN2831 (F001)(ERG#74)	2	DM	1191	P	F001
d.							

J. Additional Descriptions for Materials Listed Above

a. 54% MEDIUM BOILING ALIPHATIC HYDROCARBONS
33% PERCHLOROETHYLENE
13% METHYLENE CHLORIDE

b. 4% MINERAL SPIRITS
49% ALIPHATIC HYDROCARBONS C9-C13)
35% TRICHLOROETHANE 1,1,1

c.

d.

K. Handling Codes for Wastes Listed Above

a. c.

b. d.

15. Special Handling Instructions and Additional Information
9048 21534058 782475 2-118-01-7372 XX
11b.CONT#0077373-4 SAM#111166
EMERGENCY RESP#1-760-536-4200
11c.CONT#0077409-2 SAM#111167 DOT# A: 3036 B: 2225 C: 511 D:

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[signature]	11	3	91

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
DAN BYMEN	[signature]	11	3	91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

EPA Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

6 — GENERATOR MAIL TO - TSD'S STATE

safety-kleen

TO: NEW JERSEY D.E.P.
SOLID WASTE ADMINISTRATION
BOX CN028
TRENTON, N.J. 08625

FROM: SAFETY KLEEN CORP
PO Box 289
Congers NY 10920

IN REFERENCE: Falcon Jet
90 Moonachie Ave
Moonachie NJ

MANIFEST #: NJA 1060869

DATED: 11/30/90

Dear Sir/Madam,

Safety-Kleen Corp located in Congers NY Branch 2-118-04 being the Transporter 1 and the TSDF, in this instance, has noted a discrepancy on the above referenced manifest document. The discrepancy is as follows:

note Item Jb should also show "4% MEK, + Toluene - 4%"

I have attached a copy of the manifest to this letter. Should you require any additional information regarding this shipment, please contact me at (914)268-4477. Thank you.

Please keep on File

Note letter sent to NJDEP

Jennifer Valentino
JENNIFER VALENTINO

777 BIG TIMBER ROAD ELGIN, ILLINOIS 60120 PHONE 312/697-8460 TELEX 910 251 4479

FalconJet®

November 2, 1990

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028
Trenton, New Jersey 08625

SUBJECT: FALCON JET CORPORATION -
US EPA ID NO. NJD 134869551
Reference: State Manifest Document
Number NJA1101673

Gentlemen:

Enclosed please find copies 6 and 7 of EPA Form 8700-22 of the referenced Manifest Document completed for the above captioned corporation.

Please contact the undersigned should you have any questions regarding the above.

Very truly yours,

FALCON JET CORPORATION

By _____
Peter S. Rothwell
Associate Counsel

PSR:meh
Enclosures
389

cc: Mr. G. Sabella

Via Certified Mail #P524056556, Return Receipt Requested.

2-118-01

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJD 134287991 — Manifest Document No. 44851 — 2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
FALCON JET
ATTN JERRY
MOONACHIE — 90 MOONACHIE AVE — NJ 07608

4. Generator's Phone (201) 288-5300

5. Transporter 1 Company Name: SAFETY-KLEEN CORP. — 6. US EPA ID Number: ILD 051060408

7. Transporter 2 Company Name — 8. US EPA ID Number

9. Designated Facility Name and Site Address
SAFETY KLEEN CORP
1200 SYLVAN ST
LINDEN NJ 07036

10. US EPA ID Number: D-006-35 — NJD 002182897

A. State Manifest Document Number: NJA 1101637
B. State Generator's ID: [redacted]
C. State Transporter's ID: NJA 2[illegible]
D. Transporter's Phone: [illegible]
E. State Transporter's ID: [illegible]
F. Transporter's Phone ( ) [illegible]
G. State Facility's ID: 2009[illegible]
H. Facility's Phone: 201 [illegible]

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No
a.	X	RQ WASTE COMBUSTIBLE LIQUID, N.O.S. (OIL) NA 1993 (F001)(ERG#27)	1	DM	792	P	F001
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
48% ALIPHATIC HYDROCARBONS(C14-C20)
17% ALIPHATIC HYDROCARBONS(C9-C13)
31% TRICHLOROTRIFLUOROETHANE
3% TRICHLOROETHANE, 1,1,1-
b. d.

K. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information
112.CONT#0065586-5 SAM#093153 9040 19822790 044851 2-118-01-5378 XX
EMERGENCY RESP#1-708-888-4660
SKDOT# A: 3038 B: C: D:

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name: Gerard T. Stella — Signature: [signature] — Month 10 Day 3 Year 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DA BYMAN — Signature: [signature] — Month 10 Day 3 Year 90

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Month Day Year

EPA Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

6 — GENERATOR MAIL TO - TSD'S STATE — SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

FalconJet®

F.9

August 9, 1990

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028
Trenton, New Jersey 08625

ATTN: Ms. Jean Denes

SUBJECT: FALCON JET CORPORATION
US EPA ID NO. NJD134869551
Reference: State Manifest Document Number NJA 0916821

Dear Ms. Denes:

This will confirm the telephone conversation today between our offices wherein we informed you that the copies of the above referenced Manifest document which should have been provided to Falcon Jet had been lost by Safety-Kleen Corp. Falcon Jet Corporation has been advised that Safety-Kleen lost the original Manifest and this Manifest therefore replaces the original.

Safety-Kleen has forwarded a copy of page 1 of the Manifest via Telecopier to this office. Pursuant to your instructions, we enclose a copy of page 1 of EPA Form 8700-22 in in lieu of pages 6 and 7 which would ordinarily be filed on behalf of Falcon Jet.

Please contact the undersigned should you have any questions regarding the above.

Teterboro, New Jersey 07608
201 288-5300

Thank you for your help in this matter.

Very truly yours,

FALCON JET CORPORATION

By _____
Peter S. Rothwell
Associate Counsel

PSR:meh
Enclosure

L-12-219-90-270

cc: G. Sabella

Mr. Rick Martin
Safety-Kleen Corp.
P.O. Box 289
Congers, New York 10920

Via Certified Mail No. 524056419, Return Receipt Requested.

CN 028, Trenton, NJ 08625

Print in block letters. (Form designed for ... elite (12-pitch) typewriter.)

Form Approved. OMB No. ...

UNIFORM HAZARDOUS WASTE MANIFEST

Generator's US EPA ID No. N.D. 1[illegible]

Manifest Document No. 39613

Page 1 of 1

Information in the ... is not required by federal law

Generator's Name and Mailing Address
ALCON JET
ATTN JERRY
MOONACHIE
90 MOONACHIE AVE
NJ 07608

Generator's Phone (201) 288-5300

A. State Manifest Document Number: NJA 0916821

B. State Generator's ID: SAME

C. State Trans. ID: E28753

D. Transporter's Phone (914) 268-4477

E. State Trans. ID:

F. Transporter's Phone ( )

G. State Facility's ID: 2009C1

H. Facility's Phone (201) 862-2000

5. Transporter 1 Company Name: SAFETY-KLEEN CORP

6. US EPA ID Number: ILD 051060408

7. Transporter 2 Company Name:

8. US EPA ID Number:

9. Designated Facility Name and Site Address
SAFETY-KLEEN CORP.
1200 SYLVAN ST
LINDEN NJ 07036

10. US EPA ID Number: 0-006-35 NJD 002182897

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X	RQ WASTE PAINT RELATED MATERIAL FLAMMABLE LIQUID UN1263 (F005)(ERG#26) 1167	01	DM	376	P	F005
b.	X	RQ WASTE COMBUSTILBE LIQUID, N.O.S. (OIL) NA1993 (F001)(ERG#27) 3038	03	DM	1196	P	F001
c.							
d.							

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

9032 18197244 339613 2-118-01-9378 EPA# 32877

11a. CONT# 0065587-4 SAM# 093152
EMERGENCY RESP#1-708-888-4660

11b. CONT# 0065588-6 SAM# 093153

SKDOT# A: 1167 B: 3038 C: D:

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: X Gerard T. Sabella | Signature: X Gerard T. Sabella | Month Day Year: 08 03 90

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: STEVEN Bryant | Signature: Steven Bryant | Month Day Year: 08 03 90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: | Signature: | Month Day Year:

19. Discrepancy Indication Space: note Item 15 should show 10% - 1,1,1 15 EPA # 32877 7% others

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: | Signature: | Month Day Year:

NJA 0916821

Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

- TSD MAIL TO - TSD'S STATE

safety-kleen corp.

FJC Hazardous Waste
file

RECEIVED
AUG 13 1990
GENERAL COUNSEL

FROM

SAFETY-KLEEN CORP
PO Box 289
Congers NY 10920

NEW JERSEY D.E.P.
SOLID WASTE ADMINISTRATION
BOX CN028
TRENTON, N.J. 08625

DATE 8/9/90

CT: Silicon Jet Manifest NJA0916821

Please note manifest above, dated 8/3/90. Item JB should show
82.1% Aliphatic Hydrocarbons
10% 1,1,1 -
7% others

Thank you
Jennifer Valentine

DATE

Please note letter sent to New Jersey D.E.P.

F.Y.I.
G. SABELLA
8/13/90

VHW-001 (REV 9/88)

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

E-118-01

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-9

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No.

2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address

113 BILLY DIEHL RD
NJ 07869

4. Generator's Phone (201) 288-5300

A. State Manifest Document Number: **NJA 1090672**

B. State Generator's ID: SAME

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.

6. US EPA ID Number: FLD 084404408

C. State Trans. ID

7. Transporter 2 Company Name

8. US EPA ID Number

D. Transporter's Phone (914 268-447

E. State Trans. ID

9. Designated Facility Name and Site Address
SAFETY-KLEEN CORP.
1301 SYLVAN ST
LINDEN NJ 07036

10. US EPA ID Number
E-036-93
NJD 002182697

F. Transporter's Phone ( )

G. State Facility's ID 200901

H. Facility's Phone (201) 862-2300

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X	RQ WASTE COMBUSTIBLE LIQUID, N.O.S. (METHYL ETHYL KETONE) NA1993 (F005)(ERG#27)	03	DM	1209	P	F005
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
5% WATER 38%JET FUEL
40% ALIPHATIC HYDROCARBONS C14-C20
16% SLIPHATIC HYDROCARBONS C9-C13
a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information
11a.CONT#0040003-2 SAM#049688 P104 22859304 456749 E-118-01-V988 5003
EMER PHONE RESP#1-708-588-6400
DOT# 4 3071 S

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR

Printed/Typed Name | Signature | Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

TRANSPORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space

FACILITY

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Month Day Year

In case of an emergency or spill immediately call the state the emergency occurred in and the N.J. Dept. of Environmental Protection. (609) 292-5560 (Day) (609) 292-7172 (Night)

EPA Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

6 — GENERATOR MAIL TO - TSD'S STATE

VHW-001 (REV. 9/88)

2-116-01

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No.

2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
FAL OIL ET
ATTN GEORGE REGE
TETERBORO NJ 07608
113 BILLY DIEHL RD

4. Generator's Phone (201) 288-5900

A. State Manifest Document Number: **NJA 1090672**

B. State Generator's ID: SAME

5. Transporter 1 Company Name: SAFETY-KLEEN CORP
6. US EPA ID Number: NJD 051044402
C. State Trans. ID
D. Transporter's Phone (914) 268-447

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Trans. ID

9. Designated Facility Name and Site Address
SAFETY-KLEEN CORP
1301 SYLVAN ST
LINDEN NJ 07036
10. US EPA ID Number: NJD 002182897
F. Transporter's Phone ( )
G. State Facility's ID: 200901
H. Facility's Phone (908) 925-3000

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X	RQ WASTE COMBUSTIBLE LIQUID, N.O.S. (METHYL ETHYL KETONE) NA1993 (F005)(ERG#27)	03	DM	1209	P	F005
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
6% WATER 38%JET FUEL
40% ALIPHATIC HYDROCARBONS C14-C20
16% SLIPHATIC HYDROCARBONS C9-C12

K. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information
11a.CONT#0046003-2 SAM#049658 9104 23239304 456749 2-116-01-9288 5000
EMERGENCY RESP#1-708-888-4480
SHOOT# A: 3021 B: C: D:
EPA ID 2731

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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GENERATOR

Printed/Typed Name	Signature	Month	Day	Year
Pat Vaccaro for G. Rege		10	30	91

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Steven Bryant		10	30	91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

EPA Form 8700-22 (Rev. 9/88) Previous editions are obsolete

SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

All sales of all military or upon military land are made the emergency described in and the dept. of Environmental Protection. (609) 292-0560 (Day) (609) 292-7172 (Night)

Return to 41 Hazardous Waste file

FalconJet®

February 5, 1991

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028
Trenton, New Jersey 08625

SUBJECT: FALCON JET CORPORATION -
US EPA ID NO. NJD 134869551
Reference: State Manifest Document
Number NJA0980826

Gentlemen:

Enclosed please find copies 6 and 7 of EPA Form 8700-22 of the referenced Manifest Document completed for the above captioned corporation.

Please contact the undersigned should you have any questions regarding the above.

Very truly yours,

FALCON JET CORPORATION

By _____
Peter S. Rothwell
Associate Counsel

PSR:meh
Enclosures (2)

542

cc: Mr. G. Sabella

Via Certified Mail #P524056558, Return Receipt Requested.

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N J D 0 4 8 6 6 6 5 6 1 | Manifest Document No. NU1237-J | 2. Page 1 of 2 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
FALCON JET
90 MOONACHIE AVE MOONACHIE NJ 07074

4. Generator's Phone (201) 262-0800

A. State Manifest Document Number **NJA 0980826**

B. State Generator's ID SAME

5. Transporter 1 Company Name | 6. US EPA ID Number
ENVIRONMENTAL TRANSFER CORPORATION N J D 0 6 6 1 2 6 1 5 8 4

C. State Trans. ID NJDEPS6821-64032

7. Transporter 2 Company Name | 8. US EPA ID Number

D. Transporter's Phone 201) 347-2215

E. State Trans. ID

9. Designated Facility Name and Site Address | 10. US EPA ID Number
ADVANCED ENVIRONMENTAL TECHNOLOGY CORPORATION
1 EDEN LANE
FLANDERS NJ 07836 N J D 9 8 0 5 0 6 5 9 3

F. Transporter's Phone ( )

G. State Facility's ID N/A

H. Facility's Phone (201) 347-1909

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE FLAMMABLE LIQUID, NOS FLAMMABLE LIQUID UN1993	X	0001	DF	000060	P	D001
b. WASTE CORROSIVE LIQUID, NOS (FORMIC ACID) (DODECYLBENZENE SULFONIC ACID) CORROSIVE MATERIAL UN1760	X	0001	DF	000240	P	F002
c. WASTE CORROSIVE SOLID, NOS CORROSIVE MATERIAL UN1759	X	0001	DF	000060	P	X850
d. WASTE ORM-A, NOS (METHLYLENE CHLORIDE) ORM-A NA1693	X	0001	DF	000240	P	C220

J. Additional Descriptions for Materials Listed Above
a. S/I-PLC
b. L/T 85-95% METHYLENE CHLORIDE <5% MIX ACIDS
c. S/I-PLC
d. L/T SCRUBBER SOLUTION

K. Handling Codes for Wastes Listed Above
a.
b.

15. Special Handling Instructions and Additional Information
EMERGENCY CONTACT # 1-800-424-9300
~~GERRY SABELLA~~ GS
~~PETER KARLOVITZ~~ PK

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
GERRY SABELLA		10	13	91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
PETER KARLOVITZ		10	13	91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR

TRANSPORTER

FACILITY

In case of an emergency or spill immediately call the state one emergency number listed in this box. Dept. of Environmental Protection (609) 292-7172

EPA Form 8700-22 (Rev. 9/88) Previous editions are obsolete.

SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

6 — GENERATOR MAIL TO - TSD'S STATE

VPW-001 (REV. 9-86)

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJD 1 3 1 3 9 5 5 1 — Manifest Document No.
2. Page 1 of 2 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
FALCON JET
90 MOONACHIE AVE MOONACHIE NJ 07074

4. Generator's Phone (201) 262-0800

A. State Manifest Document Number: **NJA 0980826**

B. State Generator's ID: SAME

5. Transporter 1 Company Name: ENVIRONMENTAL TRANSFER CORPORATION
6. US EPA ID Number: NJD 9 9 1 2 9 1 5 6 4

C. State Trans. ID: NJDEPS6321-84032

7. Transporter 2 Company Name:
8. US EPA ID Number:

D. Transporter's Phone (201) 347-2215

E. State Trans. ID:

9. Designated Facility Name and Site Address
ADVANCED ENVIRONMENTAL TECHNOLOGY CORPORATION
1 EDEN LANE
FLANDERS NJ 07836

10. US EPA ID Number: NJD 9 8 0 5 3 6 5 9 3

F. Transporter's Phone ( )

G. State Facility's ID: N/A

H. Facility's Phone (201) 347-1909

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a.	X	WASTE FLAMMABLE LIQUID, NOS FLAMMABLE LIQUID UN1993	0001	DF	000080	P	D001
b.	X	WASTE CORROSIVE LIQUID, NOS (FORMIC ACID) (DODECYLBENZENE SULFONIC ACID) CORROSIVE MATERIAL UN1760	0001	DF	000240	P	F002
c.	X	WASTE CORROSIVE LIQUID, NOS CORROSIVE MATERIAL UN1760	0001	DF	000080	P	X850
d.	X	WASTE ORM-A, NOS (METHYLENE CHLORIDE) ORM-A NA1000	0001	DF	000240	P	C220

e. Additional Descriptions for Materials Listed Above: S/I-PLC S/I-PLC — Additional Descriptions for Materials Listed Above

a. LPT 35-35% METHYLENE CHLORIDE [illegible] SOLUTION
IDE 35% MIX ACIDS

b. c. PACKING SLIPS ATTACHED FOR CLARIFICATION (TRANSIT ONLY)

15. Special Handling Instructions and Additional Information

~~GERRY SABELLA~~ EK
~~PETER KARLOVITS~~ [illegible]

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Printed/Typed Name: GERRY SABELLA — Signature: [signature] — Month Day Year: 01 31 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: PETER KARLOVITS — Signature: [signature] — Month Day Year: 01 31 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Month Day Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19

Printed/Typed Name: — Signature: — Month Day Year:

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

SIGNATURE AND INFORMATION MUST BE LEGIBLE ON ALL COPIES

7 — GENERATOR MAIL TO - GENERATOR STATE

HW-001 (REV. 9/86)

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NJD981491609 — Manifest Document No.: 72901
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address:
FALCON JET
113 BILLY DIEHL RD, TETERBORO AIRPORT
TETERBORO NJ 07608 201-288-5300

4. Generator's Phone

A. State Manifest Document Number: **NJA 1204733**

B. State Generator's ID: SAME

5. Transporter 1 Company Name: SAFETY-KLEEN CORP.
6. US EPA ID Number: ILD051060408

C. State Trans. ID: [illegible]

7. Transporter 2 Company Name:
8. US EPA ID Number:

D. Transporter's Phone: 201-268-4477

E. State Trans. ID:

9. Designated Facility Name and Site Address:
SAFETY-KLEEN CORP.
1200 SYLVAN ST.
LINDEN, NJ 07036

10. US EPA ID Number: 0-006-35 NJD002182897

F. Transporter's Phone ( )

G. State Facility's ID: 2009C1

H. Facility's Phone: 201-862-2000

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X	RQ WASTE COMBUSTIBLE LIQUID, N.O.S. (METHYL ETHYL KETONE) NA1993 (F005) (ERG#27)	5	DM	[illegible]	P	F005
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
6% WATER 38% JET FUEL
40% HIGH-BOILING ALIPHATIC HYDROCARBONS (C14-C20)
15% MEDIUM-BOILING SLIPHATIC HYDROCARBONS (C9-C13)

K. Handling Codes for Wastes Listed Above
a. c.
b. d. b. c.

15. Special Handling Instructions and Additional Information: 1-118-01-9282, INV.#M72901, WEEK
11a SAM#049658 CONTROL#0046003-2 11d SAM# CONTROL#
11b SAM# CONTROL# EMERG. RESP. # 1-708-888-4660
11c SAM# CONTROL# SKDOT# K:3021 B: C: D:

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name | Signature | Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19

Printed/Typed Name | Signature | Month Day Year

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

NHW-001 (REV. 9/86)

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJD980491809 | Manifest Document No. 76901 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
FALCON JET
113 BILLY DIEHL RD. TETERBORO AIRPORT
TETERBORO NJ 07608

4. Generator's Phone 201-288-5300

A. State Manifest Document Number **NJA 1204733**

B. State Generator's ID **SAME**

5. Transporter 1 Company Name: SAFETY-KLEEN CORP. | 6. US EPA ID Number: IUD051960408

C. State Trans. ID

7. Transporter 2 Company Name | 8. US EPA ID Number

D. Transporter's Phone 914-268-4477

E. State Trans. ID

9. Designated Facility Name and Site Address
SAFETY-KLEEN CORP.
1200 SYLVAN ST.
LINDEN, NJ 07036

10. US EPA ID Number: 0-006-35 / NJD002182697

F. Transporter's Phone ( )

G. State Facility's ID 2009C1

H. Facility's Phone 201-862-2000

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. X RQ WASTE COMBUSTIBLE LIQUID, N.O.S. (METHYL ETHYL KETONE) NA1993 (F005) (ERG#27)	1	DM	55	P	F005
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
55% WATER 38% JET FUEL
a. 40% HIGH-BOILING ALIPHATIC HYDROCARBONS (C14-C20)
15% MEDIUM-BOILING ALIPHATIC HYDROCARBONS(C9-C13)
b. c.

K. Handling Codes for Wastes Listed Above
a. b. c.

15. Special Handling Instructions and Additional Information 1-18-01-0282, INV.#M7901, WEBR
11a SAM#049632 CONTROL#00046003-2 11c SAM# CONTROL#
11b SAM# CONTROL# EMERG. RESP. # 1-703-527-3887
11c SAM# CONTROL# SKDOT# A13021 PO#

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name | Signature | Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Month Day Year

GENERATOR TRANSPORTER FACILITY

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

7 — GENERATOR MAIL TO - GENERATOR STATE

SIGNATURE AND INFORMATION MUST BE LEGIBLE ON ALL COPIES

VHW-001 (REV. 9/86)

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No. 2050-0039 Expires 9-30-88

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJ 1491509 Manifest Document No.
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: FALCON JET CORP 13 Billy Diehl RD Teterboro NJ 07608
4. Generator's Phone (201) 288-5300
5. Transporter 1 Company Name: Continental Carriers
6. US EPA ID Number: NJD990770658
7. Transporter 2 Company Name:
8. US EPA ID Number:
9. Designated Facility Name and Site Address: Solvents Recovery Service of New Jersey 1200 Sylvan St, Linden NJ 07036
10. US EPA ID Number: NJD002182897

A. State Manifest Document Number: NJA0426725
B. State Generator's ID: Same
C. State Trans. ID:
D. Transporter's Phone (201) 727-1188
E. State Trans. ID: NJ DEPS 5771
F. Transporter's Phone ( )
G. State Facility's ID: NJD002182897
H. Facility's Phone (201) 262-2000

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

	HM		12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.		NASTE OIL NOS ~~[illegible]~~ Pin # 015 117 DD	03	CDM	01650	G	X726 ~~[illegible]~~
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
a. Jet Fuel 0.5% Oil 3.1% Water 5%
b. Pin # 015 117 DD
c.
d.

K. Handling Codes for Wastes Listed Above
a. c.
b. d.

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: George F. Rege — Signature: [signature] — Month Day Year: 9 10 89

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Edmund H Petrosky — Signature: [signature] — Month Day Year: 9 21 989

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Month Day Year

NJA0426725

EPA Form 8700-22 (Rev. 9-86) Previous editions are obsolete

SIGNATURE AND INFORMATION *MUST* BE LEGIBLE ON ALL COPIES

6 — GENERATOR MAIL TO - TSD'S STATE

VHW-001 (REV. 9/86)

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-88

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJD 041 509 — Manifest Document No.
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.
A. State Manifest Document Number: NJA 0426725
B. State Generator's ID: SAME
C. State Trans. ID
D. Transporter's Phone (201) 727-1133
E. State Trans. ID N.J. DEPS 771
F. Transporter's Phone ( )
G. State Facility's ID 0602 132 87
H. Facility's Phone (201) 726 2000

3. Generator's Name and Mailing Address: Falcon Safeguard Inc Bulk Drums Inc 07650
4. Generator's Phone (201) 288-5300
5. Transporter 1 Company Name: Edmund H Petrosky — 6. US EPA ID Number: NJD 980770658
7. Transporter 2 Company Name — 8. US EPA ID Number
9. Designated Facility Name and Site Address: Envirite Recovery Service of New Jersey, 900 Englewood St, Linden NJ 07036 — 10. US EPA ID Number: NJD 002132787

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE OIL NOS. PIN # 015 117 DD	03	DM	00550	G	X726
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a. Oil Tank Waste
b. PIN # 015 117 DD
c. None
d.

K. Handling Codes for Wastes Listed Above
a.
b.
c.
d.

15. Special Handling Instructions and Additional Information
PCBs

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.
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Printed/Typed Name: Carol Reese — Signature — Month Day Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Edmund H Petrosky — Signature — Month Day Year: 9 24 88
18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name — Signature — Month Day Year

EPA Form 8700-22 (Rev. 9-86) Previous editions are obsolete.

7 — GENERATOR MAIL TO - GENERATOR STATE

SIGNATURE AND INFORMATION MUST BE LEGIBLE ON ALL COPIES

NJA0426725

BERGEN COUNTY UTILITIES AUTHORITY
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

Permit No.: 91-173

Effective Date: 8/22/91

Expiration Date: 8/22/92

Company I.D. No.: 0504

Name and Address of Owner: Falcon Jet Corp.
114 Billy Diehl Road
Teterboro Airport
Teterboro, New Jersey 07608

Location of Activity/Facility: 114 Billy Diehl Road
Teterboro, New Jersey 07608

Type of Permit: Non-categorical/ <99 gpd

In accordance with all terms and conditions in the "Rules and Regulations for the Direct and Indirect Discharge of Wastewater to the Bergen County Utilities Authority Treatment Works", the provisions by which are incorporated in this permit, and applicable provisions of Federal and/or State regulation, permission is hereby granted to discharge industrial process wastewater into the Bergen County Utilities Authority Little Ferry Treatment Plant, via the Borough of Teterboro sanitary sewer collection system, in accordance with wastewater discharge limitations, monitoring requirements, and other requirements set forth in the following tables hereof.

This permit is granted in accordance with the Industrial Wastewater Discharge Permit Application and Questionnaire and accompanying documentation, filed with the Authority, and are considered part of this permit.

Be advised that while the permit is in force, additional information may be required to be submitted and/or discharge limitations may be changed to reflect changes in applicable Federal, State and local regulations. The Permittee hereby agrees to the aforementioned.

Steven M. Mizerek

STEVEN M. MIZEREK
PRINCIPAL ENGINEER
BERGEN COUNTY UTILITIES AUTHORITY

Table - 1 Discharge Limitations

Parameter	Limitation
Biochemical Oxygen Demand, BOD	BCUA must be notified if over 350 mg/l
Suspended Solids, S.S.	BCUA must be notified if over 350 mg/l
pH	5.5 - 9.5 Daily Range
Total Kjeldahl Nitrogen	200 mg/l Single Sample
Ammonia Nitrogen	100 mg/l Single Sample
Cyanide (T)	0.50 mg/l Single Sample
Oil or Grease	
Non-petroleum origin	200 mg/l Daily Maximum
Petroleum origin	100 mg/l Monthly Average
	150 mg/l Single Sample
Explosivity	5% LEL any 2 successive Readings
	10% LEL any 1 reading

Note:
(T) = Total

Material Safety Data Sheet
May be used to comply with OSHA's Hazard Communication Stan. rd. 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor
Occupational Safe· id Health Administration
(Non-Mandatory F
Form Approved
OMB No. 1218-0072

IDENTITY (As Used on Label and List) ™
SLIKWIK® Absorbent SOC

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name The Andersons	Emergency Telephone Number 419-537-7408
Address (Number, Street, City, State, and ZIP Code) P.O. Box 119	Telephone Number for Information 419-893-5050
Maumee, OH 43537	Date Prepared January 2, 1987
	Signature of Preparer (optional) Jack VanderZwan

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Contains no hazardous ingredients.				
Absorbent inside of polyester sock is listed on OSHA's GRAS list (Generally Regarded as Safe).				
Molecular formula is $C_{1.0}$ $H_{2.2}$ $O_{0.8}$				

Section III — Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H_2O = 1)	1.3
Vapor Pressure (mm Hg.)	Low	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A

Solubility in Water
7.1%

Appearance and Odor
Free flowing granules; light tan in color; essentially odorless.

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
388°F Closed Cup	N/A	N/A	N/A

Extinguishing Media
H_2O, CO_2, ABC, etc.

Special Fire Fighting Procedures
None - absorbent similar to wood.

Unusual Fire and Explosion Hazards
Minimum explosive concentration (-200 mesh dust cloud) 0.045 oz./cu. ft.

(Reproduce locally)

"N/A" = Not Applicable

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DISTRIBUTION ENTRY

Section V — Reactivity Data

Stability			Conditions to Avoid
	Unstable		Keep away from strong acids and caustics.
pH 7.3	Stable	X	

Incompatibility (*Materials to Avoid*)
Strong acids and caustics.

Hazardous Decomposition or Byproducts
CO or NO_x typical of wood smoke.

Hazardous Polymerization			Conditions to Avoid
	May Occur		None known.
	Will Not Occur	X	

Section VI — Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	No	No	No

Health Hazards (*Acute and Chronic*)
None known.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	No	No	No

Signs and Symptoms of Exposure
None known.

Medical Conditions
Generally Aggravated by Exposure None known.

Emergency and First Aid Procedures
No acute hazards known.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled
Normal clean-up procedure for nonhazardous material.

Waste Disposal Method
Once saturated with liquid, product must be disposed of in compliance with local, state and federal regulations.

Precautions to Be Taken in Handling and Storing
Product must be stored in a dry area. Use same precaution that would be taken with wood products.

Other Precautions
None known.

Section VIII — Control Measures

Respiratory Protection (*Specify Type*)
None required.

Ventilation		
Local Exhaust: None	Special: None	
Mechanical (General): None	Other: None	

Protective Gloves	Eye Protection
None required.	Avoid getting particles into eyes.

Other Protective Clothing or Equipment
None required.

Work/Hygienic Practices
No special requirements.

The information and data contained herein is based upon facts considered to be correct as of the date hereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will The Andersons be responsible for damages of any nature whatsoever resulting from the use or reliance upon this information. No representations or warranties, either expressed or implied, of merchantibility, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which this information refers.

MATERIAL SAFETY DATA SHEET

NPCA 1-7

FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U S Department of Labor "Essentially Similar" to Form OSHA-20)

DATE OF PREP 8/86

Section I

MANUFACTURER'S NAME: Randolph Products Co.

STREET ADDRESS: Park Place East

CITY, STATE, AND ZIP CODE: Carlstadt, NJ 07072

EMERGENCY TELEPHONE NO.

INFORMATION TELEPHONE NO. (201) 438-3700

PRODUCT CLASS: Epoxy Coating

MANUFACTURERS CODE IDENTIFICATION: MIL-C-22750 Comp. A (#16473)

TRADE NAME: Gloss Epoxy Polyamide Coating

Section II — HAZARDOUS INGREDIENTS

INGREDIENT	CAS#	PERCENT	TLV PPM	TLV mg/M³	LEL	VAPOR PRESSURE mmHg@20°C
Pigments	N/A	15-25	N/A	10	N/A	N/A
Toluene	108-88-3	15-20	100	375	1.2	38
Methyl Ethyl Ketone	78-93-3	15-20	100	590	1.8	80
Butyl Acetate	123-86-4	5-15	150	710	1.7	14
Epoxy Resin	N/A	25-35	N/A	N/A	N/A	N/A

Section III — PHYSICAL DATA

BOILING RANGE: 170-240°F

VAPOR DENSITY: [XX] HEAVIER. [ ] LIGHTER THAN AIR

EVAPORATION RATE: [ ] FASTER [XX] SLOWER THAN ETHER

PERCENT VOLATILE BY VOLUME: 60

WEIGHT PER GALLON: 9.6-10.0#

Section IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: Flammable -XX Combustible

FLASH POINT: 20°F(T.C.C.)

LEL: 1.2

* Carcinogen Or Potential Carcinogen

\+ Neurotoxin Or Potential Neurotoxin

EXTINGUISHING MEDIA

Sand, Foam, Carbon Dioxide, Chemical Types

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UNUSUAL FIRE AND EXPLOSION HAZARDS

Prevent Fire, Keep Away From Heat, Sparks, And Open Flames

SPECIAL FIRE FIGHTING PROCEDURES

Avoid Breathing Vapor or Fumes. Use Air Supplied Rescue Equipment For Enclosed Areas.

Cool Exposed Containers With Water To Prevent Explosion Due to Pressure.

MATERIAL SAFETY DATA SHEET

NPCA 1-7

FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U S Department of Labor "Essentially Similar" to Form OSHA-20)

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DATE OF PREP 8/86

Section I

MANUFACTURER'S NAME: Randolph Products Co.

STREET ADDRESS: Park Place East

CITY, STATE, AND ZIP CODE: Carlstadt, NJ 07072

EMERGENCY TELEPHONE NO

INFORMATION TELEPHONE NO. (201) 438-3700

PRODUCT CLASS: Epoxy Coating

MANUFACTURERS CODE IDENTIFICATION

TRADE NAME: Epoxy Coreactant

MIL-C-22750 Comp. B

Section II — HAZARDOUS INGREDIENTS

INGREDIENT	CAS#	PERCENT	TLV PPM	TLV mg/M³	LEL	VAPOR PRESSURE mmHg@20°C
Isopropyl Alcohol	67-63-0	30-40	400	980	2.0	2
Butyl Alcohol	71-36-3	10-15	100	150	1.4	4
Aliphatic Hydrocarbons	N/A	20-30	200	N/A	1.2	2.3
Toluene	108-88-3	0-5	100	375	1.2	25
Xylene	1330-20-7	5-8	100	435	1.2	25
Polyamide Resins	N/A	5-15		N/A		

* Carcinogen Or Potential Carcinogen

± Neurotoxin Or Potential Neurotoxin

Section III — PHYSICAL DATA

BOILING RANGE: 180-250°F

VAPOR DENSITY: [XX] HEAVIER. [ ] LIGHTER THAN AIR

EVAPORATION RATE: [ ] FASTER [XX] SLOWER THAN ETHER

PERCENT VOLATILE BY VOLUME: 88

WEIGHT PER GALLON: 7.2#

Section IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: Flammable - XX
Combustible

FLASH POINT: 45°F(T.C.C.)

LEL 1.2

EXTINGUISHING MEDIA

Sand, Foam, Carbon Dioxide, Chemical Types

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UNUSUAL FIRE AND EXPLOSION HAZARDS

Prevent Fire, Keep Away From Heat, Sparks, And Open Flames

SPECIAL FIRE FIGHTING PROCEDURES

Avoid Breathing Vapor or Fumes. Use Air Supplied Rescue Equipment For Enclosed Areas.

Cool Exposed Containers With Water To Prevent Explosion Due to Pressure.

MATERIAL SAFETY DATA SHEET

NPCA 1-71

FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U S Department of Labor "Essentially Similar" to Form OSHA-20)

DATE OF PREP 1987

MAR 0 '87

Section I

MANUFACTURER'S NAME: Randolph Products Co.

STREET ADDRESS: Park Place East

CITY, STATE, AND ZIP CODE: Carlstadt, NJ 07072

EMERGENCY TELEPHONE NO.

INFORMATION TELEPHONE NO. (201) 438-3700

PRODUCT CLASS: Enamel

MANUFACTURERS CODE IDENTIFICATION: MIL-P-23377 Comp. B

TRADE NAME: Epoxy Polyamide Coreactant

Section II — HAZARDOUS INGREDIENTS

INGREDIENT	CAS#	PERCENT	TLV PPM	TLV mg/M³	LEL	VAPOR PRESSURE mmHg@20°C
Toluene	108-88-3	10-20	100		1.2	25
Mineral Spirits	8032-32-4	20-30	200		0.9	10
Butyl Alcohol	71-36-3	25-35	100		1.4	34
Polyamide Resin		10-20				

* Carcinogen Or Potential Carcinogen
† Neurotoxin Or Potential Neurotoxin

Section III — PHYSICAL DATA

BOILING RANGE: 176-239°F

VAPOR DENSITY: [XX] HEAVIER, [ ] LIGHTER THAN AIR

EVAPORATION RATE: [ ] FASTER [XX] SLOWER THAN ETHER

PERCENT VOLATILE BY VOLUME: 80

WEIGHT PER GALLON: 7.0#

Section IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: Flammable -XX
Combustible

FLASH POINT: 45°F (T.C.C.)

LEL: 0.9

EXTINGUISHING MEDIA

Sand, Foam, Carbon Dioxide, Chemical Types

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UNUSUAL FIRE AND EXPLOSION HAZARDS

Prevent Fire, Keep Away From Heat, Sparks, And Open Flames

SPECIAL FIRE FIGHTING PROCEDURES

Avoid Breathing Vapor or Fumes. Use Air Supplied Rescue Equipment For Enclosed Areas.

Cool Exposed Containers With Water To Prevent Explosion Due to Pressure.

MATERIAL SAFETY DATA SHEET

NPCA 1-7

FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U S Department of Labor "Essentially Similar" to Form OSHA-20)

DATE OF PREP 1987

Section I

MANUFACTURER'S NAME: Randolph Products Co.

STREET ADDRESS: Park Place East

CITY, STATE, AND ZIP CODE: Carlstadt, NJ 07072

EMERGENCY TELEPHONE NO

INFORMATION TELEPHONE NO. (201) 438-3700

PRODUCT CLASS: Epoxy

MANUFACTURERS CODE IDENTIFICATION

TRADE NAME: Epoxy Polyamide Primer

MIL-P-23377 Comp. A
Yellow / Green

Section II — HAZARDOUS INGREDIENTS

INGREDIENT	CAS#	PERCENT	TLV PPM	TLV mg/M³	LEL	VAPOR PRESSURE mmHg@20°C
Toluene	108-88-3	1-10	100	N/A	1.2	25
Mineral Spirits	8032-32-4	1-10	200	N/A	0.9	10
Methyl Ethyl Ketone	78-93-3	20-30	200	N/A	1.8	80
Propylene Glycol Methyl Ether Acetate	000108-6506	1-10	100	N/A	1.3	2.5
Magnesium Silicate Hydrate	1343-90-4	15-20	N/A	N/A	N/A	N/A
Strontium Chromate*	7789062	19.5-22.5	N/A	0.01	N/A	N/A

Contains 4.9% Chromium As Chromate

* Carcinogen Or Potential Carcinogen

‡ Neurotoxin Or Potential Neurotoxin

Section III — PHYSICAL DATA

BOILING RANGE: 173-273°F

VAPOR DENSITY: [XX] HEAVIER, [ ] LIGHTER THAN AIR

EVAPORATION RATE: [ ] FASTER [XX] SLOWER THAN ETHER

PERCENT VOLATILE BY VOLUME: 60

WEIGHT PER GALLON: 10.4#

Section IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: Flammable -XX
Combustible

FLASH POINT: 20°F(T.C.C.)

LEL 0.9

EXTINGUISHING MEDIA

Sand, Foam, Carbon Dioxide, Chemical Types

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UNUSUAL FIRE AND EXPLOSION HAZARDS

Prevent Fire, Keep Away From Heat, Sparks, And Open Flames

SPECIAL FIRE FIGHTING PROCEDURES

Avoid Breathing Vapor or Fumes. Use Air Supplied Rescue Equipment For Enclosed Areas.

Cool Exposed Containers With Water To Prevent Explosion Due to Pressure.

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FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U S Department of Labor "Essentially Similar" to Form OSHA-20)

DATE OF PREP 1987

Section I

MANUFACTURER'S NAME: Randolph Products Co.

STREET ADDRESS: Park Place East

CITY, STATE, AND ZIP CODE: Carlstadt, NJ 07072

EMERGENCY TELEPHONE NO

INFORMATION TELEPHONE NO. (201) 438-3700

PRODUCT CLASS: Primer

MANUFACTURERS CODE IDENTIFICATION

MIL-P-15328 (DOD-P-15328)

TRADE NAME: Pretreatment Primer (Blue/Green Wash Primer)

Section II — HAZARDOUS INGREDIENTS

INGREDIENT	CAS#	PERCENT	TLV PPM	TLV mg/M³	LEL	VAPOR PRESSURE mmHg@20°C
Zinc Chromate *	13530-65-9	16-19		0.05		
Butyl Alcohol	71-36-3	5-15	100		1.4	5
Isopropyl Alcohol	67630	55-65	400		2.5	33
Polyvinyl Butyral Resin	N/A	10-20				

* Carcinogen Or Potential Carcinogen
\+ Neurotoxin Or Potential Neurotoxin

Section III — PHYSICAL DATA

BOILING RANGE: 178-242°F

VAPOR DENSITY: [XX] HEAVIER, [ ] LIGHTER THAN AIR

EVAPORATION RATE: [ ] FASTER [XX] SLOWER THAN ETHER

PERCENT VOLATILE BY VOLUME: 85

WEIGHT PER GALLON: 8.0#

Section IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: Flammable -XX
Combustible

FLASH POINT: 53°F (T.C.C.)

LEL 1.4

EXTINGUISHING MEDIA

Sand, Foam, Carbon Dioxide, Chemical Types

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UNUSUAL FIRE AND EXPLOSION HAZARDS

Prevent Fire, Keep Away From Heat, Sparks, And Open Flames

SPECIAL FIRE FIGHTING PROCEDURES

Avoid Breathing Vapor or Fumes. Use Air Supplied Rescue Equipment For Enclosed Areas.

Cool Exposed Containers With Water To Prevent Explosion Due to Pressure.

MATERIAL SAFETY DATA SHEET

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FOR COATINGS, RESINS AND RELATED MATERIALS

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DATE OF PREP 1987

Section I

MANUFACTURER'S NAME Randolph Products Co.

STREET ADDRESS Park Place East

CITY, STATE, AND ZIP CODE Carlstadt, NJ 07072

EMERGENCY TELEPHONE NO

INFORMATION TELEPHONE NO. (201) 438-3700

PRODUCT CLASS Catalyst

MANUFACTURERS CODE IDENTIFICATION

TRADE NAME Acid Diluent

Acid Diluent for MIL-P-15328/ DOD-P-15328

Section II — HAZARDOUS INGREDIENTS

INGREDIENT	CAS#	PERCENT	TLV PPM	TLV mg/M³	LEL	VAPOR PRESSURE mmHg@20°C
85% Phosphoric Acid	7664-38-2	10-20				
Isopropyl Alcohol	67630	70-80	400		2.0	35

* Carcinogen Or Potential Carcinogen
\+ Neurotoxin Or Potential Neurotoxin

Section III — PHYSICAL DATA

BOILING RANGE 171°F

VAPOR DENSITY [XX] HEAVIER. [ ] LIGHTER THAN AIR

EVAPORATION RATE [ ] FASTER [XX] SLOWER. THAN ETHER

PERCENT VOLATILE BY VOLUME 92

WEIGHT PER GALLON 7.7#

Section IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION Flammable -XX
Combustible

FLASH POINT 55°F (T.C.C.)

LEL 2.0

EXTINGUISHING MEDIA

Sand, Foam, Carbon Dioxide, Chemical Types

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UNUSUAL FIRE AND EXPLOSION HAZARDS

Prevent Fire, Keep Away From Heat, Sparks, And Open Flames

SPECIAL FIRE FIGHTING PROCEDURES

Avoid Breathing Vapor or Fumes. Use Air Supplied Rescue Equipment For Enclosed Areas.

Cool Exposed Containers With Water To Prevent Explosion Due to Pressure.

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FOR COATINGS, RESINS AND RELATED MATERIALS

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DATE OF PREP 1987

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Section I

MANUFACTURER'S NAME: Randolph Products Co.

STREET ADDRESS: Park Place East

CITY, STATE, AND ZIP CODE: Carlstadt, NJ 07072

EMERGENCY TELEPHONE NO.

INFORMATION TELEPHONE NO. (201) 438-3700

PRODUCT CLASS: Solvent

MANUFACTURERS CODE IDENTIFICATION: MIL-T-81772 Type II

TRADE NAME: Thinner For Epoxy

Section II — HAZARDOUS INGREDIENTS

INGREDIENT	CAS#	PERCENT	TLV PPM	TLV mg/M³	LEL	VAPOR PRESSURE mmHg@20°C
Methyl Ethyl Ketone	78-93-3	50-60	200	N/A	1.8	80
Methyl Isobutyl Ketone	108-10-1	10-20	100	N/A	1.4	15
Monopropylene Glycol Monomethyl Ether	107-98-2	25-35	100	N/A	1.3	11

* Carcinogen Or Potential Carcinogen

± Neurotoxin Or Potential Neurotoxin

Section III — PHYSICAL DATA

BOILING RANGE: 173-273°F

VAPOR DENSITY: [XX] HEAVIER [ ] LIGHTER THAN AIR

EVAPORATION RATE: [ ] FASTER [XX] SLOWER THAN ETHER

PERCENT VOLATILE BY VOLUME: 100

WEIGHT PER GALLON: 7.0#

Section IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: Flammable -XX
Combustible

FLASH POINT: 20°F (T.C.C.)

LEL: 1.4

EXTINGUISHING MEDIA

Sand, Foam, Carbon Dioxide, Chemical Types

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UNUSUAL FIRE AND EXPLOSION HAZARDS

Prevent Fire, Keep Away From Heat, Sparks, And Open Flames

SPECIAL FIRE FIGHTING PROCEDURES

Avoid Breathing Vapor or Fumes. Use Air Supplied Rescue Equipment For Enclosed Areas.

Cool Exposed Containers With Water To Prevent Explosion Due to Pressure.

MATERIAL SAFETY DATA SHEET

NPCA 1-7E

FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U S Department of Labor "Essentially Similar" to Form OSHA-20)

DATE OF PREP. 11/87

Section I

MANUFACTURER'S NAME: Randolph Products Co.

STREET ADDRESS: Park Place East

CITY, STATE, AND ZIP CODE: Carlstadt, NJ 07072

EMERGENCY TELEPHONE NO.

INFORMATION TELEPHONE NO. (201) 438-3700

PRODUCT CLASS: Epoxy Coating

MANUFACTURERS CODE IDENTIFICATION

TRADE NAME: Epoxy Coreactant

MIL-C-22750 Comp. B

Section II — HAZARDOUS INGREDIENTS

INGREDIENT	CAS#	PERCENT	TLV PPM	TLV mg/M³	LEL	VAPOR PRESSURE mmHg@20°C
Isopropyl Alcohol	67-63-0	30-40	400	980	2.0	2
Butyl Alcohol	71-36-3	10-15	100	150	1.4	4
Aliphatic Hydrocarbons	N/A	20-30	200	N/A	1.2	2.3
Toluene	108-88-3	0-5	100	375	1.2	25
Xylene	1330-20-7	5-8	100	435	1.2	25
Polyamide Resins	N/A	5-15		N/A		

Section III — PHYSICAL DATA

BOILING RANGE: 180-250°F

VAPOR DENSITY: [XX] HEAVIER. [ ] LIGHTER THAN AIR

EVAPORATION RATE: [ ] FASTER [XX] SLOWER THAN ETHER

PERCENT VOLATILE BY VOLUME: 88

WEIGHT PER GALLON: 7.2#

Section IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: Flammable - XX
Combustible

FLASH POINT: 45°F (T.C.C.)

LEL: 1.2

EXTINGUISHING MEDIA

Sand, Foam, Carbon Dioxide, Chemical Types

UNUSUAL FIRE AND EXPLOSION HAZARDS

Prevent Fire, Keep Away From Heat, Sparks, And Open Flames

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SPECIAL FIRE FIGHTING PROCEDURES

Avoid Breathing Vapor or Fumes. Use Air Supplied Rescue Equipment For Enclosed Areas.

Cool Exposed Containers With Water To Prevent Explosion Due to Pressure.

Section V — HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: 100 p.p.m.

EFFECTS OF OVEREXPOSURE:

ACUTE Solvent vapors may cause drowsiness, headache, dizziness and irritation of eyes, nose and throat.

Chronic: Eyes: Irritation, Blurred vision, tearing
Skin: Irritation, Defatting, Dermatitis
Breathing: Dizziness, Weakness, Nausea, Headache
Swallowing: Gastrointestinal Irritation, Nausea; Vomiting; Diarrhea

Emergency and First Aid Procedures:
Remove to Fresh Air, Flush eyes with [illegible] of Water, Consult Physician

Section VI — REACTIVITY DATA

STABILITY ☐ UNSTABLE ☒ STABLE CONDITIONS TO AVOID Flame Or High Heat

INCOMPATABILITY (Materials to avoid) - Avoid Contact With Strong Oxidants

HAZARDOUS DECOMPOSITION PRODUCTS - Carbon Monoxide May Form When Burned

HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☒ WILL NOT OCCUR

CONDITIONS TO AVOID - Flame Or High Heat

Section VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Remove all sources of ignition, wear approve respirator, contain spill with inert substance (sand, dirt), put mixture in containers for disposal. Keep spill out of sewers and open bodies of water.

WASTE DISPOSAL METHOD

According to current local, state and federal regulation.

Section VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

RECOMMENDED--Wear Mesa/Niosh approved respirator where vapor concentrations are encountered.

VENTILATION

Explosion proof exhaust ventilation at point of contaminant release.

PROTECTIVE GLOVES Neoprene
EYE PROTECTION Goggles
OTHER PROTECTIVE EQUIPMENT Coveralls & Boots

Section IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

DOL STORAGE CATEGORY

OTHER PRECAUTIONS

KEEP AWAY FROM HEAT, FLAME

KEEP AWAY FROM CHILDREN

Ground Containers And Equipment.
"Empty Containers" Are Hazardous. Do Not Cut Or Weld

UNUSUAL FIRE AND EXPLOSION HAZARDS

When heated above flash point, material releases vapor. If exposed to ignition source in air, vapor can burn in open or explode if confined. Vapors are often heavier than air, may travel long distances along ground before reaching ignition source, and flash back to vapor source(s). Fine sprays/mists may be combustible at temperatures below the normal flash point.

SPECIAL FIREFIGHTING PROCEDURES

Do not enter confined space without proper protection. See Section X - decomposition products possible. Heat stress may build pressure and rupture closed containers, spreading fire and increasing risk of injury. Firefight from safe distance/ protected location. Apply aqueous extinguishing media carefully to avoid frothing and limit exposure of nearby equipment. May need special foams for effective extinguishment. Notify authorities if liquid enters sewers or public waters.

HANDLING AND STORAGE

Store only in containers tightly closed or properly blanketed with inert gas to retard potential development of dangerous peroxides and away from heat, sparks, open flame or strong oxidizing agents. Do not allow contact with aluminum metal due to possible corrosion and generation of extremely flammable hydrogen gas. Containers must be properly grounded before beginning transfer. All electrical equipment should conform to the National Electric Code. Empty disposable containers must be handled with care because of combustible vapor remaining after emptying and should be properly decontaminated before reuse or disposal.

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SPILL AND DISPOSAL

Precautions if Material is Spilled or Released: Release may cause fire/explosion. Evaucate nonessential personnel, extinguish all ignition sources, stop release if feasible without undue risk. Notify fire/water supply/ pollution control authorities. Keep people away. Equip cleanup crew with proper protection. Blanket spill with foam to limit vapor emission. Restrict water use in cleanup. Dike/impound large land spill. Absorb small spill onto inert solids and shovel into suitable disposal containers. On water, material is soluble and will float. Attempt to contain and recover rapidly to prevent dispersion. May be toxic to aquatic life.

Waste Disposal Methods: Contaminated solids should be landfilled only at properly permitted disposal sites. Care is necessary to avoid overloading or biomass poisoning. Assure bioplant effluent compliant with all applicable water pollution control regulations. It is recommended that any material substantially contaminated by this product, and intended for disposal, be handled as hazardous waste due to risk or fire and/or explosion under adverse circumstances.

EMERGENCY AND FIRST AID

Inhalation: If overcome by exposure, immediately move victim to fresh air. Keep victim quiet. Administer oxygen or artificial respiration as needed. Obtain medical attention immediately. Prompt action is essential.

Eye Contact: In case of eye contact, immediately flush eyes with clean, low pressure water for at least 15 minutes, occasionally lifting eyelids. Obtain immediate medical attention.

Skin Contact: Immediately remove contaminated clothing. Wash affected areas with soap and water. If sticky, use waterless cleaner first. Clean clothing thoroughly before reuse. Discard contaminated shoes.

Ingestion: If large quantity of this material is swallowed, administer warm water (Quart) and obtain medical attention immediately. Do not induce vomiting because breathing into lungs will increase the risk of chemical pneumonia.

SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing: Protective clothing.

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DOL Storage Category:

Other Precautions: Keep away from heat, flame. Keep away from children.

Ground Containers and Equipment: "Empty Containers" are hazardous. Do not cut or weld.

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FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U S Department of Labor "Essentially Similar" to Form OSHA-20)

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Personnel Dept.

DATE OF PREP 12/87

Section I

MANUFACTURER'S NAME: Randolph Products Co.

STREET ADDRESS: Park Place East

CITY, STATE, AND ZIP CODE: Carlstadt, NJ 07072

EMERGENCY TELEPHONE NO.

INFORMATION TELEPHONE NO. (201) 438-3700

PRODUCT CLASS: Putty

MANUFACTURERS CODE IDENTIFICATION: MIL-P-8116B

TRADE NAME: Zinc Chromate Putty

Section II — HAZARDOUS INGREDIENTS

INGREDIENT	CAS#	PERCENT	TLV PPM	TLV mg/M³	LEL	VAPOR PRESSURE mmHg@20°C
*Zinc Chromate Pigment	13530-65-9	1-10	N/A	0.05	N/A	N/A
*Chrysotile Asbestos Fiber Filler		30-40	N/A	0.2 Fibers	N/A	N/A

Has Been Found By NTP Or IARC To Be Either A Carcinogen Or Potential Carcinogen

Contains Less Than 2% Chromium as Chromate

Section III — PHYSICAL DATA

BOILING RANGE: N/A

VAPOR DENSITY: ☐ HEAVIER ☐ LIGHTER THAN AIR

EVAPORATION RATE: ☐ FASTER ☐ SLOWER THAN ETHER

PERCENT VOLATILE BY VOLUME: 0

WEIGHT PER GALLON: 12.5#

Section IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: Flammable

Non-Combustible -XX

FLASH POINT: N/A

LEL: N/A

EXTINGUISHING MEDIA

Sand, Foam, Carbon Dioxide, Chemical Types

UNUSUAL FIRE AND EXPLOSION HAZARDS

Prevent Fire, Keep Away From Heat, Sparks, And Open Flames

SPECIAL FIRE FIGHTING PROCEDURES

Avoid Breathing Vapor or Fumes. Use Air Supplied Rescue Equipment For Enclosed Areas.

Cool Exposed Containers With Water To Prevent Explosion Due to Pressure.

Section V — HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: N/A p.p.m.

EFFECTS OF OVEREXPOSURE:

ACUTE Solvent vapors may cause drowsiness, headache, dizziness and irritation of eyes, nose and throat.

Chronic: Eyes: Irritation, Blurred vision, tearing
Skin: Irritation, Defatting, Dermatitus
Breathing: Dizziness, Weakness, Nausea, Headache
Swallowing: Gastrointestinal Irritation, Nausea, Vomiting, Diarrhea

Emergency and First Aid Procedures:
Remove to Fresh Air, Flush eyes with lots of Water, Consult Physician

Section VI — REACTIVITY DATA

STABILITY ☐ UNSTABLE ☒ STABLE CONDITIONS TO AVOID Flame Or High Heat

INCOMPATABILITY (Materials to avoid) - Avoid Contact With Strong Oxidants

HAZARDOUS DECOMPOSITION PRODUCTS - Carbon Monoxide May Form When Burned

Note: Oxidizing Materials may cause a Vigorous Reaction

HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☒ WILL NOT OCCUR

CONDITIONS TO AVOID - Flame Or High Heat

Section VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Remove all sources of ignition, wear approved respirator, contain spill with inert substance (sand, dirt), put mixture in containers for disposal. Keep spill out of sewers and open bodies of water.

WASTE DISPOSAL METHOD

According to current local, state and federal regulation.

Section VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

RECOMMENDED--Wear Mesa/Niosh approved respirator where vapor concentrations are encountered.

VENTILATION

Explosion proof exhaust ventilation at point of contaminant release.

PROTECTIVE GLOVES Neoprene

EYE PROTECTION Goggles

OTHER PROTECTIVE EQUIPMENT Coveralls & Boots

Section IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

DOL STORAGE CATEGORY

OTHER PRECAUTIONS

KEEP AWAY FROM HEAT, FLAME

KEEP AWAY FROM CHILDREN

Ground Containers And Equipment.
"Empty Containers" Are Hazardous, Do Not Cut Or Weld

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HEALTH HAZARDS

Primary: Burns and injury due to fire and explosion. Direct liquid or concentrated vapor contact with the eyes. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful and/or fatal.

Inhalation: Exposure to excessive concentration of this material, in either vapor or mist form, may result in toxic effects: nasal irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness and even asphyxiation.

Eye Contact: Upon direct contact, this material may cause moderate eye irritation, redness, tearing, and/or blurred vision.

Skin Absorption: In liquid or solution form, this material may be absorbed through intact skin and produce toxic effects if the exposure is prolonged or extensive.

Skin Irritation: Following extensive, repeated and/or prolonged contact, this material may cause minor skin irritation, defatting, and/or dermatitus.

Ingestion: This material may be toxic if swallowed in large quantity and cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Effects of Overexposure: In short term, repeated inhalation exposure to nearly saturated vapor (>4000 PPM), test animals showed a slight effect on kidneys or kidney function. Prolonged contact with intact and abraded rabbit skin showed no irritation and potential to produce systemic toxicity via skin absorption is low.

PROTECTIVE EQUIPMENT

Respiratory. If this material is handled at elevated temperature or under mist-forming conditions, NIOSH/MSHA approved Self Contained Breathing Apparatus operated in a positive pressure mode should be used.

Ventilation: Use this material only where general room ventilation controls potential exposures below any harmful level based on medical surveillance.

Eye: Eye protection, such as chemical splash goggles and/or face mask, must be worn when any possibility exists for eye contact due to splashing or spraying liquid. Contact lenses should not be worn.

Skin: When handling this material, protective gloves, apron, and face protection should be sorn. This equipment should be cleaned thoroughly after each use. Practice good personal hygiene.

Other: Use good personal hygiene practices: wash hands before eating, drinking, smoking, or use of toilet facilities. Take a shower after work using plenty of soap and water.

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UNUSUAL FIRE AND EXPLOSION HAZARDS

When heated above flash point, material releases vapor. If exposed to ignition source in air, vapor can burn in open or explode if confined. Vapors are often heavier than air, may travel long distances along ground before reaching ignition source, and flash back to vapor source(s). Fine sprays/mists may be combustible at temperatures below the normal flash point.

SPECIAL FIREFIGHTING PROCEDURES

Do not enter confined space without proper protection. See Section X - decomposition products possible. Heat stress may build pressure and rupture closed containers, spreading fire and increasing risk of injury. Firefight from safe distance/ protected location. Apply aqueous extinguishing media carefully to avoid frothing and limit exposure of nearby equipment. May need special foams for effective extinguishment. Notify authorities if liquid enters sewers or public waters.

HANDLING AND STORAGE

Store only in containers tightly closed or properly blanketed with inert gas to retard potential development of dangerous peroxides and away from heat, sparks, open flame or strong oxidizing agents. Do not allow contact with aluminum metal due to possible corrosion and generation of extremely flammable hydrogen gas. Containers must be properly grounded before beginning transfer. All electrical equipment should conform to the National Electric Code. Empty disposable containers must be handled with care because of combustible vapor remaining after emptying and should be properly decontaminated before reuse or disposal.

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SPILL AND DISPOSAL

Precautions if Material is Spilled or Released: Release may cause fire/explosion. Evaucate nonessential personnel, extinguish all ignition sources, stop release if feasible without undue risk. Notify fire/water supply/ pollution control authorities. Keep people away. Equip cleanup crew with proper protection. Blanket spill with foam to limit vapor emission. Restrict water use in cleanup. Dike/impound large land spill. Absorb small spill onto inert solids and shovel into suitable disposal containers. On water, material is soluble and will float. Attempt to contain and recover rapidly to prevent dispersion. May be toxic to aquatic life.

Waste Disposal Methods: Contaminated solids should be landfilled only at properly permitted disposal sites. Care is necessary to avoid overloading or biomass poisoning. Assure bioplant effluent compliant with all applicable water pollution control regulations. It is recommended that any material substantially contaminated by this product, and intended for disposal, be handled as hazardous waste due to risk or fire and/or explosion under adverse circumstances.

EMERGENCY AND FIRST AID

Inhalation: If overcome by exposure, immediately move victim to fresh air. Keep victim quiet. Administer oxygen or artificial respiration as needed. Obtain medical attention immediately. Prompt action is essential.

Eye Contact: In case of eye contact, immediately flush eyes with clean, low pressure water for at least 15 minutes, occasionally lifting eyelids. Obtain immediate medical attention.

Skin Contact: Immediately remove contaminated clothing. Wash affected areas with soap and water. If sticky, use waterless cleaner first. Clean clothing thoroughly before reuse. Discard contaminated shoes.

Ingestion: If large quantity of this material is swallowed, administer warm water (Quart) and obtain medical attention immediately. Do not induce vomiting because breathing into lungs will increase the risk of chemical pneumonia.

SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing: Protective clothing.

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DOL Storage Category:

Other Precautions: Keep away from heat, flame. Keep away from children.

Ground Containers and Equipment: "Empty Containers" are hazardous. Do not cut or weld.

MATERIAL SAFETY DATA SHEET

NPCA 1-7E

FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U S Department of Labor "Essentially Similar" to Form OSHA-20)

RECEIVED MAR 2 - 1988

DATE OF PREP. 2/88

Section I

PURCHASING DEPT

MANUFACTURER'S NAME: Randolph Products Co.

STREET ADDRESS: Park Place East

CITY, STATE, AND ZIP CODE: Carlstadt, NJ 07072

EMERGENCY TELEPHONE NO.

INFORMATION TELEPHONE NO. (201) 438-3700

PRODUCT CLASS: Epoxy Coating

MANUFACTURERS CODE IDENTIFICATION: MIL-C-22750 Comp. A (17038)

TRADE NAME: Gloss Epoxy Polyamide Coating

Section II — HAZARDOUS INGREDIENTS

INGREDIENT	CAS#	PERCENT	TLV PPM	TLV mg/M³	LEL	VAPOR PRESSURE mmHg@20°C
Pigments	N/A	15-25	N/A	10	N/A	N/A
Toluene	108-88-3	15-20	100	375	1.2	38
Methyl Ethyl Ketone	78-93-3	15-20	100	590	1.8	80
Butyl Acetate	123-86-4	5-15	150	710	1.7	14
Epoxy Resin	N/A	25-35	N/A	N/A	N/A	N/A

Section III — PHYSICAL DATA

BOILING RANGE: 170-240°F

VAPOR DENSITY: [XX] HEAVIER, [ ] LIGHTER THAN AIR

EVAPORATION RATE: [ ] FASTER [XX] SLOWER, THAN ETHER

PERCENT VOLATILE BY VOLUME: 60

WEIGHT PER GALLON: 9.6-10.0#

Section IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: Flammable -XX Combustible

FLASH POINT: 20°F(T.C.C.)

LEL: 1.2

EXTINGUISHING MEDIA

Sand, Foam, Carbon Dioxide, Chemical Types

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UNUSUAL FIRE AND EXPLOSION HAZARDS

Prevent Fire, Keep Away From Heat, Sparks, And Open Flames

SPECIAL FIRE FIGHTING PROCEDURES

Avoid Breathing Vapor or Fumes. Use Air Supplied Rescue Equipment For Enclosed Areas.

Cool Exposed Containers With Water To Prevent Explosion Due to Pressure.

SUNNEN

MSDS 01

MATERIAL SAFETY DATA SHEET

	NFPA DESIGNATION 704
HAZARD RATING	
4=Extreme	
3=High	· FIRE 0 ·
2=Moderate	
1=Slight	· REACTIVITY 0 ·
0=Insignificant	
	· SPECIFIC HAZARD NONE ·

SECTION 1 NAME AND PRODUCT

MANUFACTURER'S NAME: SUNNEN PRODUCTS COMPANY
ADDRESS: 7910 Manchester Ave.
St. Louis, Mo. 63143
United States of America

APPROVED BY: Terry Heller
TITLE: Manager, Materials R/D
CONTACT: Terry Heller
EMERGENCY PHONE NO: 314-781-2105
DATE: August 15, 1987

TRADE NAME, COMMON NAME OR SPECIFICATION:

Sunnen Mandrel Shoe: UA-B, UA-C, UA-CH, UB-B, UB-C, UB-CH, UC-B, UC-C, UC-CH, UD-B, UE-B, LA-C, LA-B, LA-CH, LB-B, LB-C, LB-CH, LC-B, LC-C, LC-CH, VA-B, VA-C, VA-CH, VB-B, VB-C, VB-CH, WB-B, WB-D, UC-B, UC-D, WD-B, WD-D, WE-B, WE3-D, WF-B, WF-D, UG-B, UG-D,SC-B, SD-B, PB-B, PB-H, PC-B, PC-H, PD-B, PD-H, PE-B, PE-H, PF-B, PF-H, PG-B or PH-B.

Sunnen Honing Mandrels: AB, AS, AH, BB, BS, BH, CB, CS, or CH suffix or with AK20, JAK20, BAL20 or AL20 prefix. (Example: KS-150CS or AK20-744UA)

Sunnen Truing Sleeve: S or ST Prefix. (Example: S-120 or ST-744)

CHEMICAL FAMILY: METAL ALLOY. CLASSIFICATION: Machine, Machine Parts. D.O.T. SHIPPING CLASS: Class 85

SECTION 2 HAZARDOUS INGREDIENTS/IDENTITY (PER 29 C.F.R. 1910.1200(g))

COMMON NAME	CHEMICAL NAME OF COMPONENTS	CAS NO	OSHA PEL mg./cu. m.	ACGIH TLV-TWA mg./cu. m.	CARCINOGENIC
IRON	IRON	7439-89-6	10 as Iron Oxide fume	5.0 as Iron Oxide fume	N
COPPER	COPPER	7440-50-8	1.0 / 0.1 fume	1.0 / 0.2 fume	N
COBALT	COBALT	7440-48-4	0.1	.05 dust and fume	N (1)
TIN	TIN	7440-31-5	2.0	2.0 / 2.0 fume	N
CARBON	CARBON	7440-44-0	3.5 as Carbon Black	3.5 as Carbon Black	N
MANGANESE	MANGANESE	7439-96-5	5.0	5.0 / 1.0 fume	N
ALUMINUM	ALUMINUM	7429-90-5	NONE	10	N
CHROMIUM	CHROMIUM	7440-47-3	1.0	0.5	N (1)
MOLYBDENUM	MOLYBDENUM	7439-98-7	15	10	N
NICKEL	NICKEL	7440-02-0	1.0	1.0	Y
SILICON	SILICON	7440-21-3	NONE	5 as respirable dust	N
LEAD	LEAD	7439-92-1	0.1	.15	N
ZINC	ZINC	7440-66-6	5.0 as Zinc Oxide fume	5.0 as Zinc Oxide fume	N

(1) CERTAIN COMPOUNDS OF CHROMIUM AND COBALT HAVE BEEN IDENTIFIED AS SUSPECT HUMAN CARCINOGENS BY I.A.R.C., N.T.P. ANNUAL REPORT.

FOR FURTHER SAFETY AND HEALTH INFORMATION REGARDING THE COMPOSITION OF THIS MATERIAL CONTACT SUNNEN PRODUCTS, INDUSTRIAL SALES DEPARTMENT.

SECTION 3 PHYSICAL & CHEMICAL CHARACTERISTICS

SPECIFIC GRAVITY (WATER=1)----7.8 (APPROX)
MELTING POINT----1100-2500 F (593-1371 C) APPROX.
SOLUBILITY IN WATER----NOT SOLUBLE
VAPOR PRESSURE (mm Hg)----NOT VOLATILE
APPEARANCE AND ODOR----SOLID METAL OBJECT. ANTI-RUST COATING HAS ODOR OF KEROSENE.

REACTIVITY IN WATER----NOT REACTIVE
EVAPORATION RATE ----NOT VOLATILE
VAPOR DENSITY (Air=1)----NOT VOLATILE
PERCENT VOLATILE BY WEIGHT----NOT VOLATILE

SECTION 4 SPECIAL PRECAUTIONS

HANDLING AND STORAGE: NONE Refer to Section 7.

SECTION 5 CORROSIVITY AND REACTIVITY DATA

STABILITY: Material is stable under normal conditions of transport and storage. POLYMERIZATION: Hazardous polymerization will not occur. INCOMPATIBILITY (MATERIALS TO AVOID): Acids, Bases or Strong Oxidizing Agents. HAZARDOUS DECOMPOSITION PRODUCTS: METAL FUMES IF HEATED Anti-rust coating is combustible and will produce oxides of carbon.

SECTION 6 HEALTH, FIRST AID AND MEDICAL DATA. ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE

OPERATIONS SUCH AS ABRADING, MELTING, WELDING, CUTTING OR PROCESSING IN ANY OTHER FASHION MAY PRODUCE POTENTIALLY HAZARDOUS DUST OR FUMES WHICH CAN BE INHALED, SWALLOWED, OR COME IN CONTACT WITH THE SKIN OR EYES. Dust or fume may cause irritation to the eyes, nose, or throat; leave a metallic taste in the mouth; result in metal fume fever (flu-like symptoms). Symptoms may be aggravated for sensitive individuals with respiratory conditions (such as emphysema). Persons with light skin, sensitive skin or large amounts of body hair may experience skin disorders from contact with metal fines.

ABBREVIATIONS USED IN THE FOLLOWING SECTION: NAIF=NO APPLICABLE INFORMATION FOUND, SKIN=SKIN ABSORPTION, EYE=EYE CONTACT, INHAL=INHALATION, INGEST=INGESTION

ALUMINUM: ACUTE: SKIN: May cause skin irritation. EYE: Dust may cause swelling and injury to the eye. INHAL: Nuisance dust. INGEST: NAIF. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: May cause irritation of the mucous membranes of the upper respiratory system. INGEST: NAIF.

CARBON: ACUTE: SKIN: May cause irritation.. EYE: May cause irritation and swelling. INHAL: May cause irritation [illegible] nose or throat (Bronchitis). INGEST: NAIF. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: As graphite. May produce a pr[illegible]ve and disabling lung disease. Symptoms include headache, coughing, depression, decreased appetite, difficult breathing and the production of black sputum. Individuals may be free of symptoms for many years and then suddenly become disabled. INGEST: NAIF.

CHROMIUM: ACUTE: SKIN: Chromium compounds may cause dermatitis. EYE: May cause irritation. INHAL: Dusts of the metal may cause coughing and wheezing, headache, difficult breathing, fever and loss of weight. INGEST: Literature reports the oral toxicity as LD Lo=71 mg/kg (Hamsters). CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: There are reports of a nodular type of breathing disease with impairment of lung function. Some insoluble chromium compounds are suspected carcinogens. INGEST: NAIF.

COBALT: ACUTE: SKIN: Cobalt can cause an allergy. Literature reports very small quantities have caused allergic sensitivity type dermatitis. Eruptions are usually located in the flexure creases of the elbow, knee, ankles, and neck. Cross sensitization can occur between cobalt and nickel and cobalt and chromium. EYE: May cause irritation. INHAL: Cobalt dust inhalation may cause an asthma-like disease characterized by coughing and difficult breathing. INGEST: Literature reports the oral toxicity to be LD Lo=1500 mg/kg (rats). Ingesting cobalt dust can cause vomiting and diarrhea. A sensation of hotness may occur after ingestion of excessive amounts. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: Inflammation of the lungs that may be reversible and abnormal tissue growth. INGEST: NAIF.

COPPER: ACUTE: SKIN: Changes causing hard or horny skin located on the hands and the soles of the feet has been reported. Copper salts may cause skin irritation (itching, redness and dermatitis). EYE: Copper salts may cause swelling, ulceration and cloudy cornea. INHAL: Melting, grinding, cutting of copper may produce fumes or dust exposure and breathing these fumes or dust may present health hazards. Fumes of copper may cause "Metal Fume Fever" with flu-like symptoms and skin and hair discoloration. Copper dust and fume may cause irritation of the upper respiratory tract, metallic taste in the mouth, and nausea. INGEST: Salts of copper act as irritants producing salivation, nausea, vomiting, stomach pain, bleeding stomach inflammation and diarrhea. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: Ulceration with perforation of the nasal septum. INGEST: Individuals with Wilson's disease (hepatolenticular degeneration) can experience fatal intoxication.

IRON: ACUTE: SKIN: NAIF. EYE: Dust may irritate eyes. INHAL: NAIF. INGEST: NAIF. CHRONIC: SKIN: NAIF. E[illegible]F. INHAL: The inhalation of iron oxide fumes or dust may cause an apparent benign lung disease which is called siderosis. This disease is reported not to be disabling, but makes x-ray diagnosis of other lung conditions difficult or impossible. INGEST: NAIF

LEAD: ACUTE: SKIN: NAIF. EYE: NAIF. INHAL/INGEST: Early symptoms of lead poisoning include fatigue, headache, digestive symptoms, abdominal pain and decreased appetite. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL/INGEST: Affects the nerves causing severe headache, convulsions, coma, delirium and possible death. Causes kidney damage and reduction in the number of circulating red blood cells.

NFPA DESIGNATION 704		
HAZARD RATING	- HEALTH	1 -
4=Extreme		
3=High	- FIRE	0 -
2=Moderate		
1=Slight	- REACTIVITY	0 -
0=Insignificant		
	- SPECIFIC HAZARD	NONE -

SUNNEN

MATERIAL SAFETY DATA SHEET

SECTION 1 NAME AND PRODUCT

MANUFACTURER'S NAME: SUNNEN PRODUCTS COMPANY
ADDRESS: 7910 Manchester Ave.
St. Louis, Mo. 63143
United States of America

CONTACT: Terry Heller
EMERGENCY PHONE NO: 314-781-2105
APPROVED BY: Terry Heller
TITLE: Manager, Materials R/D
DATE: August 15, 1987

TRADE NAME, COMMON NAME OR SPECIFICATION: Sunnen Honing Stones: A, J and C Abrasive (Example: K10-A57 or P28-C07), or AHU, CR, EEU, EAU, EHN, EHU, EKH, EHN, EKU, EHU, EUA, EUG, HB, JHU, JUA, JUG, KL, LH, LJ, ML, PL, RY, RYY, SC, SL, SYY, UL, XHB and XSC Prefix (Example: JHU-625). CHEMICAL FAMILY: Mixture. Vitrified or Superabrasive Honing Stone that may contain various fillers and organic binders mounted on a Zinc holder. CLASSIFICATION: Machine, Machine Parts. D.O.T. SHIPPING CLASS: Class 85

SECTION 2 HAZARDOUS INGREDIENTS/IDENTITY (PER 29 C.F.R. 1910.1200(g))

COMMON NAME	CHEMICAL NAME OF COMPONENTS	CAS NO	OSHA PEL mg./cu. m.	ACGIH TLV-TWA mg./cu. m.	CARCINOGENIC
STONE HOLDER					
ZAMAK	ZINC	7440-66-6	5.0 as oxide fume	5.0 as oxide fume	N
COPPER	COPPER	7440-50-8	1.0 / 0.1 fume	1.0 / 0.2 fume	N
ALUMINUM	ALUMINUM	7429-90-5	NONE	10 dust	N
MAGNESIUM	MAGNESIUM	7439-95-4	15 as oxide fume	10 as oxide fume	N
ABRASIVE					
ALUNDUM	ALUMINUM OXIDE	1344-28-1	15 Total Dust	10 Total Dust	N
CRYSTOLON	SILICON CARBIDE	409-21-2	15 Total Dust	10 Total Dust	N
FLUORIDES	FLUORIDES (as F)	NONE	2.5	2.5	N
ABRASIVE BOND SYSTEM					
TIN	TIN	7440-31-5	2.0	2.0 / 2.0 fume	N
WAX	PARAFFIN	8002-74-2	NONE	2.0 fume	N
FIBERGLASS	GLASS, FIBROUS OR DUST	NONE	5.0 as Respirable Dust	10	N
SULFUR	SULFUR	7704-34-9	13 as Dioxide Fume	5.0 as Dioxide Fume	N
LIME	CALCIUM OXIDE	1305-78-8	5.0	2.0	N
ADHESIVE					
CAMPHOR	CAMPHOR	76-22-2	2.0	12	N

FOR FURTHER SAFETY AND HEALTH INFORMATION REGARDING THE COMPOSITION OF THIS MATERIAL CONTACT SUNNEN PRODUCTS.

SECTION 3 PHYSICAL & CHEMICAL CHARACTERISTICS

SPECIFIC GRAVITY (WATER=1)--------5 (APPROX)
MELTING POINT---------> 728 F (387 C) NOLDER
PERCENT VOLATILE BY WEIGHT--------NOT VOLATILE
VAPOR PRESSURE (mm Hg)----------NOT VOLATILE
APPEARANCE AND ODOR----------SOLID OBJECT

VAPOR DENSITY (Air=1) ---NOT VOLATILE
EVAPORATION RATE --------NOT VOLATILE
SOLUBILITY IN WATER------NOT SOLUBLE
REACTIVITY IN WATER------STONE HOLDER WILL SLOWLY CORRODE.

SECTION 4 SPECIAL PRECAUTIONS: None Refer to MSDS Section 7 & 8

SECTION 5 CORROSIVITY AND REACTIVITY DATA

STABILITY: Material is stable under normal conditions of transport and storage. POLYMERIZATION: Hazardous polymerization will not occur. INCOMPATIBILITY (MATERIALS TO AVOID): Acids of all types with PH < 4.0, bases or strong oxidizing agents. HAZARDOUS DECOMPOSITION PRODUCTS: Metal fumes if heated. Oxides of Nitrogen as oxidation products of cement.

SECTION 6 HEALTH, FIRST AID AND MEDICAL DATA. ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE

OPERATIONS SUCH AS ABRADING, MELTING, WELDING, CUTTING OR PROCESSING IN ANY OTHER FASHION MAY PRODUCE POTENTIALLY HAZARDOUS DUST OR FUMES WHICH CAN BE INHALED, SWALLOWED, OR COME IN CONTACT WITH THE SKIN OR EYES. Dust or fume may cause irritation to the eyes, nose, or throat; leave a metallic taste in the mouth; result in metal fume fever (flu-like symptoms). Symptoms may be aggravated for sensitive individuals with respiratory conditions (such as emphysema). Persons with light skin, sensitive skin or large amounts of body hair may experience skin disorders from contact with metal fines.

ABBREVIATIONS USED IN THE FOLLOWING SECTION: NAIF=NO APPLICABLE INFORMATION FOUND, SKIN=SKIN ABSORPTION, EYE=EYE CONTACT, INHAL=INHALATION, INGEST=INGESTION

ALUMINUM: ACUTE: SKIN: May cause skin irritation. EYE: Dust may cause swelling and injury to the eye. INHAL: Nuisance dust. INGEST: NAIF. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: May cause irritation of the mucous membranes of the upper respiratory system. INGEST: NAIF.

CALCIUM OXIDE: ACUTE: SKIN: Irritating and may be caustic to the skin. May produce burns or dermatitis with flaking skin and rash. EYE: Irritating and may be caustic to eye. INHAL: Irritating and may be caustic to the mucous membranes of upper respiratory tract causing inflammation and damage. INGEST: NAIF. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: Bronchitis and lung disease. INGEST: NAIF.

CAMPHOR: ACUTE: SKIN: May cause skin irritation. EYE: May cause eye irritation. INHAL: Irritates mucous membranes. Affects central nervous system causing nausea, vomiting, diarrhea, headaches, dizziness, excitement, irrational behavior an convulsions. INGEST: Irritates mucous membranes. Affects central nervous system causing nausea, vomiting, diarrhea, headach dizziness, excitement, irrational behavior and convulsions. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: NAIF. INGEST: NAIF.

COPPER: ACUTE: SKIN: Changes causing hard or horny skin located on the hands and the soles of the feet has been reported. Copper salts may cause skin irritation (itching, redness and dermatitis). EYE: Copper salts may cause swelling, ulceration and cloudy cornea. INHAL: Melting, grinding, cutting of copper may produce fumes or dust exposure and breathing these fumes or dust may present health hazards. Fumes of copper may cause "Metal Fume Fever" with flu-like symptoms and skin and hair discoloration. Copper dust and fume may cause irritation of the upper respiratory tract, metallic taste in the mouth, and nausea. INGEST: Salts of copper act as irritants producing salivation, nausea, vomiting, stomach pain, bleeding stomach inflammation and diarrhea. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: Ulceration with perforation of the nasal septum. INGEST: Individuals with Wilson's disease (hepatolenticular degeneration) can experience fatal intoxication.

FLUORIDES: ACUTE: SKIN: May cause skin irritation. EYE: May cause eye irritation. INHAL: Irritating to the mucous membranes and lungs. INGEST: Nausea, vomiting, abdominal cramps, and diarrhea. CHRONIC: SKIN: Can cause systemic effects of fluoride poisoning by absorption thru the skin. EYE: NAIF. INHAL: Nosebleeds and sinus trouble. Inhalation of excessive concentration of elemental Fluorine can cause irreparable damage to the lungs and death. INGEST: Large doses produce central nervous system involvement with twitching of muscle groups, convulsions and coma. Fluorides are retained in bone, and excessive intake may result in an bone disease that is recognizable by x-ray.

GLASS, FIBROUS OR DUST: ACUTE: SKIN: May cause skin irritation. EYE: May cause eye irritation. INHAL: May irritate the upper respiratory tract. INGEST: NAIF CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: Fibers smaller than 3.5 u m. have the ability to penetrate to the air cells of the lung. INGEST: NAIF.

MAGNESIUM: ACUTE: SKIN: NAIF . EYE: NAIF. INHAL: NAIF. INGEST: NAIF. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: NAIF. INGEST: NAIF.

PARAFFIN: ACUTE: SKIN: May cause irritation. EYE: NAIF. INHAL: NAIF. INGEST: NAIF. CHRONIC: SKIN: Dermatitis, clogged pores and blackheads. EYE: NAIF. INHAL: NAIF. INGEST: NAIF.

SILICON CARBIDE: ACUTE: SKIN: Dust may irritate skin. EYE: Dust may irritate eyes. INHAL: Nuisance particulate. INGEST: NAIF. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: Progressive lung disease. INGEST: NAIF.

SULFUR: ACUTE: SKIN: NAIF. EYE: May irritate the eyes. INHAL: May cause excessive tissue fluid in the lungs. Gaseous sulfur dioxide is irritating to mucous membranes of the upper respiratory tract. INGEST: Not toxic. Used in medicine as a laxative. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: Chronic exposure may result in inflammation of the nose, fatigue, altered sense of smell, and chronic bronchitis. Symptoms are shortness of breath, cough, and increased mucous excretion. Animal experimentation has indicated that sulfur dioxide may be a possible co-carcinogenic agent. INGEST: NAIF.

NFPA DESIGNATION 704

HAZARD RATING	- HEALTH	1 -
4=Extreme		
3=High	- FIRE	1 -
2=Moderate		
1=Slight	- REACTIVITY	0 -
0=Insignificant		
	- SPECIFIC HAZARD	NONE -

SUNNEN

MATERIAL SAFETY DATA SHEET

SECTION 1 NAME AND PRODUCT

MANUFACTURER'S NAME: SUNNEN PRODUCTS COMPANY
ADDRESS: 7910 Manchester Ave.
St. Louis, Mo. 63143
United States of America

CONTACT: Terry Heller
EMERGENCY PHONE NO: 314-781-2105
APPROVED BY: Terry Heller
TITLE: Manager, Materials R/D
DATE: August 15, 1987

TRADE NAME, COMMON NAME OR SPECIFICATION: **MB-30 HONING OIL**
VGS-20657 SEAT CUTTING OIL

CHEMICAL FAMILY: PETROLEUM-BASED LUBRICATING OIL WITH NON-PETROLEUM FATTY ADDITIVES AND METAL DEACTIVATOR.
CLASSIFICATION: PETROLEUM OIL N.O.S.
D.O.T. SHIPPING CLASS: COMBUSTIBLE LIQUID
IDENTIFICATION NUMBER: NA1270

SECTION 2 HAZARDOUS INGREDIENTS/IDENTITY (PER 29 C.F.R. 1910.1200(g))

COMMON NAME	CHEMICAL NAME OF COMPONENTS	CAS NO	OSHA PEL mg./cu. m.	ACGIH TLV-TWA mg./cu. m.	CARCINOGENIC
MINERAL OIL	PETROLEUM DISTILLATE	64741-44-2	5 (mist)	5 (mist)	N
MINERAL OIL	PETROLEUM DISTILLATE, SEVERELY HYDROTREATED, LIGHT NAPHTHENIC	64742-53-6	5 (mist)	5 (mist)	N
MINERAL OIL	PETROLEUM DISTILLATE, SEVERELY HYDROTREATED, HEAVY NAPHTHENIC	64742-52-5	5 (mist)	5 (mist)	N
SULFURIZED FAT	SULFURIZED FATTY OIL	61790-49-6	NONE	NONE	N
FAT	ANIMAL FATTY OIL	8016-28-2	NONE	NONE	N
TOLYLTRIAZOLE	TOLYLTRIAZOLE	29385-43-1	NONE	NONE	N

FOR FURTHER SAFETY AND HEALTH INFORMATION REGARDING THE COMPOSITION OF THIS MATERIAL CONTACT SUNNEN PRODUCTS, INDUSTRIAL SALES DEPARTMENT.

SECTION 3 PHYSICAL & CHEMICAL CHARACTERISTICS

SPECIFIC GRAVITY (WATER=1)--------.904
PERCENT VOLATILE BY WEIGHT--------<1%
BOILING POINT----------->500 F (260 C)
VAPOR PRESSURE (mm Hg)----------<.1mm Hg @ 68 F (20 C)
VAPOR DENSITY (Air=1)----------No applicable information found.
EVAPORATION RATE ----------Negligible
SOLUBILITY IN WATER----------Negligible. Material is completely soluble in common hydrocarbon or chlorinated hydrocarbon solvents such as mineral spirits or trichloroethane.
REACTIVITY IN WATER----------Not reactive.
APPEARANCE AND ODOR----------Dark brown mobile liquid with characteristic odor of sulfurized fat.

SECTION 4 SPECIAL PRECAUTIONS

HANDLING AND STORAGE: NONE Refer to section 7.

SECTION 5 CORROSIVITY AND REACTIVITY DATA

STABILITY: Material is stable under normal conditions of transport and storage.
POLYMERIZATION: Hazardous polymerization will not occur.
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidation agents such as fuming nitric acid can produce a violent reaction. Material may react with any amount of alkalai such as part cleaners to form corresponding amounts of soaps and/or emulsions.
CONDITIONS TO BE AVOIDED: Do not use near sparks flames or other sources of ignition. Do not smoke in the presence of oil mist.
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of sulfur, carbon monoxide and carbon dioxide as products of combustion.

SECTION 6 HEALTH, FIRST AID AND MEDICAL DATA

PRIMARY ROUTE(S) OF ENTRY ARE: INHALATION AND SKIN ABSORPTION.
ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE

MINERAL OIL

	ACUTE	CHRONIC
SKIN ABSORPTION:	May irritate the skin. Predisposing factors: Usually individuals with sensitive skin or large amounts of body hair. Material is not sterile and may infect open cuts or sores. When tested, MB-30 was judged to be non-irritating per 16 CFR 1500.3(c)(4). Primary irritation index=2 (Albino Rabbits).	Prolonged repeated skin contact can cause skin irritation or oil acne: inflammation and blackheads due to mechanical blockage of pores. Prolonged or repeated exposure may aggrevate existing dermatitis.
INGESTION:	Acute oral toxicity: LD 50>5 gm./kg. (rats).	None known.
INHALATION:	Observe ACGIH limits for oil mist. Symptoms of overexposure to oil mist include coughing, sore throat, headache, chest pain and difficult breathing. Predisposing factors: Individuals with pre-existing respiratory impairments (such as emphyzema) can display increased sensitivity to oil mists or vapors.	None known.
EYE CONTACT:	When tested, MB-30 was judged to be non-irritating per 16 CFR 1500.42 No corneal opacity, iritis or moderate conjunctival irritation after; 1,2,3 days (Draize, rabbits).	None known.

EMERGENCY FIRST AID

INHALATION: Remove from further exposure. If unconsciousness occurs, seek immediate medical assistance and call a physician. If breathing has stopped, begin mouth to mouth resuscitation. **EYE CONTACT:** Remove contact lenses (if wearing) and flush eyes with water for 15 minutes. Seek medical attention to check for possible irritation. **SKIN CONTACT:** Wash contact areas with mild non-abrasive soap and water. **INGESTION:** Do not induce vomiting. Call physician or poison control center immediately.

SECTION 7 HANDLING, STORAGE AND USE PROCEDURES

NORMAL STORAGE AND HANDLING: Store away from heat or flame. If stored outdoors, store so as to shed water. Product may separate if exposed to temperatures below 50 F. If so, material should be heated to 50 F and mixed prior to transfer of contents. Vent container by removing lid while heating.

NORMAL USE: May cause skin irritation and/or defat the skin on prolonged or repeated contact. Practice good personal hygiene by washing hands several times each day. Launder contaminated clothing before reuse. Avoid wearing clothing soaked with fluid. Avoid prolonged inhalation of mist or vapors. Do not transfer to unlabeled containers. Do not reuse containers for other materials or purposes. Do not cut, braze, weld, solder, or pressurize container as doing so may cause container to EXPLODE, potentially causing serious injury or DEATH. FOR INDUSTRIAL USE ONLY. Not suitable for use in or around household or dwelling. All precautions detailed on the container label apply to partially full or empty containers. Do not attempt to clean as residue is difficult to remove. Empty drums should be completely drained, properly closed and returned to a drum conditioner to be commercially cleaned. Otherwise, containers should be disposed of in an environmentally safe manner and in accordance with applicable governmental regulations.

NFPA DESIGNATION 704

HAZARD RATING	- HEALTH	0 -
4=Extreme		
3=High	- FIRE	1 -
2=Moderate		
1=Slight	- REACTIVITY	0 -
0=Insignificant		
	- SPECIFIC HAZARD	NONE -

SUNNEN

MATERIAL SAFETY DATA SHEET

SECTION 1 NAME AND PRODUCT

MANUFACTURER'S NAME: SUNNEN PRODUCTS COMPANY
ADDRESS: 7910 Manchester Ave.
St. Louis, Mo. 63143
United States of America

CONTACT: Terry Heller
EMERGENCY PHONE NO: 314-781-2105
APPROVED BY: Terry Heller
TITLE: Manager, Materials R/D
DATE: August 15, 1987

TRADE NAME, COMMON NAME OR SPECIFICATION: **CK50 AND MAN845 HONING OIL**

CHEMICAL FAMILY: PETROLEUM HYDROCARBONS AND ADDITIVES
CLASSIFICATION: PETROLEUM OIL N.O.S.
D.O.T. SHIPPING CLASS: COMBUSTIBLE LIQUID
IDENTIFICATION NUMBER: NA1270

SECTION 2 HAZARDOUS INGREDIENTS/IDENTITY (PER 29 C.F.R. 1910.1200(g))

COMMON NAME	CHEMICAL NAME OF COMPONENTS	CAS NO	Wt.%	OSHA PEL mg./cu. m.	ACGIH TLV-TWA mg./cu. m.	CARCINOGENIC
REFINED MINERAL OIL		64741-44-2	> 90	5 (mist)	5 (mist)	N

FOR FURTHER SAFETY AND HEALTH INFORMATION REGARDING THE COMPOSITION OF THIS MATERIAL CONTACT SUNNEN PRODUCTS, INDUSTRIAL SALES DEPARTMENT.

SECTION 3 PHYSICAL & CHEMICAL CHARACTERISTICS

SPECIFIC GRAVITY (WATER=1)--------.85
PERCENT VOLATILE BY WEIGHT--------<1%
BOILING POINT----------->600 F (316 C)
VAPOR PRESSURE (mm Hg)----------<.1mm Hg @ 68 F (20 C)
VAPOR DENSITY (Air=1)----------No applicable information found.
EVAPORATION RATE ----------NEGLIGIBLE
SOLUBILITY IN WATER----------NEGLIGIBLE. MATERIAL IS COMPLETELY SOLUBLE IN COMMON HYDROCARBON OR CHLORINATED HYDROCARBON SOLVENTS SUCH AS MINERAL SPIRITS OR TRICHLOROETHANE.
REACTIVITY IN WATER----------NOT REACTIVE
APPEARANCE AND ODOR----------ASTM 8.0 LIQUID.

SECTION 4 SPECIAL PRECAUTIONS

HANDLING AND STORAGE: NONE Refer to section 7.

SECTION 5 CORROSIVITY AND REACTIVITY DATA

STABILITY: MATERIAL IS STABLE UNDER NORMAL CONDITIONS OF TRANSPORT AND STORAGE.
POLYMERIZATION: HAZARDOUS POLYMERIZATION WILL NOT OCCUR.
INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDATION AGENTS SUCH AS FUMING NITRIC ACID. PRODUCT MAY REACT WITH ALKALAI SUCH AS PART CLEANERS TO FORM SOAPS AND/OR EMULSIONS.

CONDITIONS TO BE AVOIDED: OXIDIZING CONDITIONS. MIXING WITH WATER OR ALKALAI (FORMS SOAPS).
HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF SULFUR, CARBON MONOXIDE AND CARBON DIOXIDE AS PRODUCTS OF COMBUSTION.

SECTION 6 HEALTH, FIRST AID AND MEDICAL DATA

PRIMARY ROUTE(S) OF ENTRY ARE: INGESTION, INHALATION AND SKIN ABSORPTION.
ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE

ACUTE: Prolonged repeated skin contact with material may lead to irritation caused by dissolving of the natural oils from the skin causing slight skin irritation.
ORAL TOXICITY (RATS): Slightly toxic (estimated)--based on testing of similar products and/or the components.
DERMAL TOXICITY (RABBITS): Slightly toxic (estimated).--based on testing of similar products and/or the components.
INHALATION TOXICITY (RATS): Not established.
EYE IRRITATION (RABBITS): Expected to be non-irritation.--Based on testing of similar products and/or the components.
SKIN IRRITATION (RABBITS): May cause slight irritation on prolonged or repeated contact.--Based on testing of similar products and/or the components.

CHRONIC: No applicable information found.

EMERGENCY FIRST AID

INHALATION: Remove from further exposure. If unconsciousness occurs, seek immediate medical assistance and call a physician. If breathing has stopped, begin mouth to mouth resuscitation. **EYE CONTACT:** Remove contact lenses (if wearing) and flush eyes with water for 15 minutes. Seek medical attention to check for possible irritation. **SKIN CONTACT:** Wash contact areas with mild non-abrasive soap and water. **INGESTION:** Do not induce vomiting. Administer vegetable oil. Get medical assistance. (Note to physician: Material if aspirated into the lungs may cause chemical pneumonitis. Treat appropriately).

SECTION 7 HANDLING, STORAGE AND USE PROCEDURES

NORMAL STORAGE AND HANDLING: Store away from heat or flame. If stored outdoors, store so as to shed water.

NORMAL USE: May cause skin irritation and/or defat the skin on prolonged or repeated contact. Practice good personal hygiene by washing hands several times each day. Launder contaminated clothing before reuse. Avoid wearing clothing soaked with fluid. Avoid prolonged inhalation of mist or vapors. Do not transfer to unlabeled containers. Do not reuse containers for other materials or purposes. Do not cut, braze, weld, solder, or pressurize container as doing so may cause container to EXPLODE, potentially causing serious injury or DEATH. FOR INDUSTRIAL USE ONLY. Not suitable for use in or around household or dwelling. All precautions detailed on the container label apply to partially full or empty containers. Do not attempt to clean as residue is difficult to remove. Empty drums should be completely drained, properly closed and returned to a drum conditioner to be commercially cleaned. Otherwise, containers should be disposed of in an environmentally safe manner and in accordance with applicable governmental regulations.

STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS: Absorb on fire retardant absorbent. Gather and dispose of in accordance with applicable regulations. Notify Coast Guard if spill could reach any waterway (1-800-424-8802).

WASTE DISPOSAL METHODS: Dispose of in accordance with applicable federal, state and local laws, regulations, rules, orde. and ordinances.

SECTION 8 PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: If use conditions give rise to excessive mist (greater than 5 mg/cu M) use a NIOSH approved respirator rated for mineral oil mist or forced ventilation to reduce mist exposure to well below TLV levels.

VENTILATION-LOCAL: Normal. MECHANICAL: Required if use conditions give rise to levels greater than 5 mg/cu M.
OTHER: No applicable information found.

NFPA DESIGNATION 704

HAZARD RATING	- HEALTH	1 -
4=Extreme		
3=High	- FIRE	0 -
2=Moderate		
1=Slight	- REACTIVITY	0 -
0=Insignificant		
	- SPECIFIC HAZARD	NONE -

SUNNEN

MATERIAL SAFETY DATA SHEET

SECTION 1 NAME AND PRODUCT

MANUFACTURER'S NAME: SUNNEN PRODUCTS COMPANY
ADDRESS: 7910 Manchester Ave.
St. Louis, Mo. 63143
United States of America

CONTACT: Terry Heller
EMERGENCY PHONE NO: 314-781-2105
APPROVED BY: Terry Heller
TITLE: Manager, Materials R/D
DATE: August 15, 1987

TRADE NAME, COMMON NAME OR SPECIFICATION: Sunnen Superabrasive Stone:NR, DR, MV or DV (Example K8-NR51).
CHEMICAL FAMILY: Product is a Superabrasive Honing Stone containing various fillers and phenolic and/or polyimide binders (thermosetting mixtures), mounted on a steel holder. CLASSIFICATION: Machine, Machine Parts. D.O.T. SHIPPING CLASS: Class 85

SECTION 2 HAZARDOUS INGREDIENTS/IDENTITY (PER 29 C.F.R. 1910.1200(g))

COMMON NAME	CHEMICAL NAME OF COMPONENTS	CAS NO.	OSHA PEL mg./cu. m.	ACGIH TLV-TWA mg./cu. m.	CARCINOGENIC
CHROME OXIDE	CHROMIUM OXIDE	1308-38-9	1.0	.05	Y
COPPER	COPPER	7440-50-8	1.0 / 0.1 fume	1.0 / 0.2 fume	N
TIN	TIN	7440-31-5	2.0	2.0 / 2.0 fume	N
DIAMOND	CARBON	7440-44-0	3.5 as Carbon Black	3.5 as Carbon Black	N
MANGANESE	MANGANESE	7439-96-5	5.0	5.0 / 1.0 fume	N
ALUMINUM POWDER	ALUMINUM	7429-90-5	NONE	10	N
MOLYBDENUM	MOLYBDENUM	7439-98-7	15	10	N
MOLYBDENUM DISULFIDE	MOLYBDENUM DISULFIDE	1317-33-5	15	10	N
NICKEL	NICKEL	7440-02-0	1.0	1.0	Y
PHOSPHOROUS	PHOSPHOROUS	7723-14-0	0.1	0.1	N
SILICON POWDER	SILICON	7440-21-3	NONE	5.0 as respirable dust	N
GRAPHITE	GRAPHITE	7782-42-5	15 MPPCF	5.0 (Total Dust)	N
LIME	CALCIUM OXIDE	1305-78-8	5.0	2.0	N
IRON OXIDE	IRON OXIDE FUME	1309-37-1	10	5.0	N
ALUNDUM	ALPHA-ALUMINA	1344-28-1	15 (Total Dust)	10 (Total Dust)	N
CRYSTOLON	SILICON CARBIDE	409-21-2	15 (Total Dust)	10 (Total Dust)	N
SILVER	SILVER	7440-22-4	.01	0.1	N
CRYOLITE	SODIUM FLUOALUMINATE	15096-52-3	NAIF	2.5	N
COBALT	COBALT	7440-48-4	0.1	.05	N
CARBIDE	TUNGSTEN CARBIDE	12070-12-1	5.0	5.0	N
FURFURAL	FURFURAL	98-01-1	5.0 PPM	8.0	N
CRYSTALLINE QUARTZ	CRYSTALLINE QUARTZ	14808-60-7	0.3	0.1	N
CURED PHENOLIC OR POLYIMIDE	CURED PHENOLIC OR POLYIMIDE	NAIF	10	10	N
FIBROUS GLASS DUST	FIBROUS GLASS DUST	16997-17-3	15	10	N
EPOXY	CURED RESIN	NAIF	NAIF	NAIF	N

(1) CERTAIN COMPOUNDS OF CHROMIUM, NICKEL AND COBALT HAVE BEEN IDENTIFIED AS SUSPECT HUMAN CARCINOGENS BY I.A.R.C., N.T.P. ANNUAL REPORT. MPPCF=Millions of particles per cubic foot of air. PPM=Parts/Million. NAIF=No applicable information found. FOR FURTHER SAFETY AND HEALTH INFORMATION REGARDING THE COMPOSITION OF THIS MATERIAL CONTACT SUNNEN PRODUCTS, INDUSTRIAL SALES DEPARTMENT.

SECTION 3 PHYSICAL & CHEMICAL CHARACTERISTICS

SPECIFIC GRAVITY (WATER=1)--------7 (APPROX)
MELTING POINT----------->428 F (220 C) APPROX.
PERCENT VOLATILE BY WEIGHT--------NOT VOLATILE
VAPOR PRESSURE (mm Hg)------------NOT VOLATILE
VAPOR DENSITY (Air=1)-------------NOT VOLATILE
EVAPORATION RATE ----------------NOT VOLATILE
SOLUBILITY IN WATER---------------NOT SOLUBLE
REACTIVITY IN WATER---------------NOT REACTIVE
APPEARANCE AND ODOR---------------SOLID OBJECT

SECTION 4 SPECIAL PRECAUTIONS

HANDLING AND STORAGE: NONE Refer to Section 7.

SECTION 5 CORROSIVITY AND REACTIVITY DATA

STABILITY: Material is stable under normal conditions of transport and storage. POLYMERIZATION: Hazardous polymerization will not occur. INCOMPATIBILITY (MATERIALS TO AVOID): Acids, bases or strong oxidizing agents. HAZARDOUS DECOMPOSITION PRODUCTS: Metal fumes if heated.

SECTION 6 HEALTH, FIRST AID AND MEDICAL DATA.

ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE
OPERATIONS SUCH AS ABRADING, MELTING, WELDING, CUTTING OR PROCESSING IN ANY OTHER FASHION MAY PRODUCE POTENTIALLY HAZARDOUS DUST OR FUMES WHICH CAN BE INHALED, SWALLOWED, OR COME IN CONTACT WITH THE SKIN OR EYES. Dust or fume may cause irritation to the eyes, nose, or throat; leave a metallic taste in the mouth; result in metal fume fever (flu-like symptoms). Symptoms may be aggravated for sensitive individuals with respiratory conditions (such as emphysema). Persons with light skin, sensitive skin or large amounts of body hair may experience skin disorders from contact with metal fines.
ABBREVIATIONS USED IN THE FOLLOWING SECTION: NAIF=NO APPLICABLE INFORMATION FOUND, SKIN=SKIN ABSORPTION, EYE=EYE CONTACT, INHAL=INHALATION, INGEST=INGESTION

ALUMINUM: ACUTE: SKIN: May cause skin irritation. EYE: Dust may cause swelling and injury to the eye. INHAL: Nuisance dust. INGEST: NAIF. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: May cause irritation of the mucous membranes of the upper respiratory system. INGEST: NAIF.

ALPHA ALUMINA: ACUTE: SKIN: NAIF. EYE: Dust may irritate eyes. INHAL: Nuisance particulate. INGEST: NAIF. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: NAIF INGEST: NAIF.

CARBON: ACUTE: SKIN: May cause irritation. EYE: May cause irritation and swelling. INHAL: May cause irritation to the nose or throat (Bronchitis). INGEST: NAIF. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: As graphite. May produce a progressive and disabling lung disease. Symptoms include headache, coughing, depression, decreased appetite, difficult breathing and the production of black sputum. Individuals may be free of symptoms for many years and then suddenly become disabled. INGEST: NAIF.

CALCIUM OXIDE: ACUTE: SKIN: Irritating and may be caustic to the skin. May produce burns or dermatitis with flaking skin and rash. EYE: Irritating and may be caustic to eye. INHAL: Irritating and may be caustic to the mucous membranes of upper respiratory tract causing inflammation and damage. INGEST: NAIF. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: Bronchitis and lung disease. INGEST: NAIF.

CHROMIUM OXIDE: ACUTE: SKIN: Can act as an allergen and cause skin irritation. EYE: May cause irritation. INHAL: Dusts may cause coughing and wheezing, headache, shortness of breath, fever and loss of weight. INGEST: Literature reports the oral toxicity as LD Lo=71mg/kg (Hamsters). CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: Literature reports lung disease with impairment of lung function. Some insoluble chromium compounds are suspected carcinogens. INGEST: NAIF.

COBALT: ACUTE: SKIN: Cobalt can cause an allergy. Literature reports very small quantities have caused allergic sensitivity type dermatitis. Eruptions are usually located in the flexure creases of the elbow, knee, ankles, and neck. Cross sensitization can occur between cobalt and nickel and cobalt and chromium. EYE: May cause irritation. INHAL: Cobalt dust inhalation may cause an asthma-like disease characterized by coughing and difficult breathing. INGEST: Literature reports the oral toxicity to be LD Lo=1500 mg/kg (rats). Ingesting cobalt dust can cause vomiting and diarrhea. A sensation of hotness may occur after ingestion of excessive amounts. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: Inflammation of the lungs that may be reversible and abnormal tissue growth. INGEST: NAIF.

COPPER: ACUTE: SKIN: Changes causing hard or horny skin located on the hands and the soles of the feet has been reported. Copper salts may cause skin irritation (itching, redness and dermatitis). EYE: Copper salts may cause swelling, ulceration and cloudy cornea. INHAL: Melting, grinding, cutting of copper may produce fumes or dust exposure and breathing these fumes or dust may present health hazards. Fumes of copper may cause "Metal Fume Fever" with flu-like symptoms and skin and hair discoloration. Copper dust and fume may cause irritation of the upper respiratory tract, metallic taste in the mouth, and nausea. INGEST of copper act as irritants producing salivation, nausea, vomiting, stomach pain, bleeding stomach inflammation and diarrhea. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: Ulceration with perforation of the nasal septum. INGEST: Individuals with Wilson's disease (hepatolenticular degeneration) can experience fatal intoxication.

CRYSTALLINE QUARTZ: ACUTE: SKIN: NAIF. EYE: Dust can irritate eyes. INHAL: Literature reports the toxicity as LC Lo=16 MPPCF (Inhalation Hamsters). Cough, shortness of breath, wheezing and repeated non-specific chest illnesses. INGEST: Chemically and biologically inert when ingested. CHRONIC: SKIN: NAIF. EYE: Abnormal tissue growth in the eyes. INHAL: Chronic exposure to crystalline silica dust may cause progressive lung disease (Silicosis). INGEST: NAIF.

PHENOLIC (CURED RESIN): ACUTE: SKIN: NAIF. EYE: NAIF. INHAL: Nuisance dust. INGEST: NAIF. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: NAIF. INGEST: NAIF.

NFPA DESIGNATION 704

HAZARD RATING	- HEALTH	1 -
4=Extreme		
3=High	- FIRE	0 -
2=Moderate		
1=Slight	- REACTIVITY	0 -
0=Insignificant		
	- SPECIFIC HAZARD	NONE -

SUNNEN

MATERIAL SAFETY DATA SHEET

SECTION 1 NAME AND PRODUCT

MANUFACTURER'S NAME: SUNNEN PRODUCTS COMPANY
ADDRESS: 7910 Manchester Ave.
St. Louis, Mo. 63143
United States of America

CONTACT: Terry Heller
EMERGENCY PHONE NO: 314-781-2105
APPROVED BY: Terry Heller
TITLE: Manager, Materials R/D
DATE: August 15, 1987

TRADE NAME, COMMON NAME OR SPECIFICATION: Sunnen Metal Bond Super Stone: MM, DM, XE11, XD11, XE05, XE13, XE14, XE67 & XG75 (Example K20-MM45).

CHEMICAL FAMILY: METAL ALLOY. CLASSIFICATION: Machine, Machine Parts. D.O.T. SHIPPING CLASS: Class 85

SECTION 2 HAZARDOUS INGREDIENTS/IDENTITY (PER 29 C.F.R. 1910.1200(g))

COMMON NAME	CHEMICAL NAME OF COMPONENTS	CAS NO	OSHA PEL mg./cu. m.	ACGIH TLV-TWA mg./cu. m.	CARCINOGENIC
IRON	IRON	7439-89-6	10 as Iron Oxide fume	5.0 as Iron Oxide fume	N
COPPER	COPPER	7440-50-8	1.0 / 0.1 fume	1.0 / 0.2 fume	N
COBALT	COBALT	7440-48-4	0.1	.05	N (1)
TIN	TIN	7440-31-5	2.0	2.0 / 2.0 fume	N
SILVER	SILVER	7440-22-4	.01	0.1	N
DIAMOND	CARBON	7440-44-0	3.5 as Carbon Black	3.5 as Carbon Black	N
MANGANESE	MANGANESE	7439-96-5	5.0	5.0 / 1.0 fume	N
ALUMINUM	ALUMINUM	7429-90-5	NONE	10	N
CHROMIUM	CHROMIUM	7440-47-3	1.0	0.5	N (1)
MOLYBDENUM	MOLYBDENUM	7439-98-7	15	10	N
NICKEL	NICKEL	7440-02-0	1.0	1.0	Y
PHOSPHOROUS	PHOSPHOROUS	7723-14-0	0.1	0.1	N
SILICON	SILICON	7440-21-3	NONE	5 as respirable dust	N
SULFUR	SULFUR	7704-34-9	13 as Sulfur Dioxide	5.0 as Sulfur Dioxide	N
ZINC	ZINC	7440-66-6	5.0 as Zinc Oxide fume	5.0 as Zinc Oxide fume	N

(1) CERTAIN COMPOUNDS OF CHROMIUM AND COBALT HAVE BEEN IDENTIFIED AS SUSPECT HUMAN CARCINOGENS BY I.A.R.C., N.T.P. ANNUAL REPORT. FOR FURTHER SAFETY AND HEALTH INFORMATION REGARDING THE COMPOSITION OF THIS MATERIAL CONTACT SUNNEN PRODUCTS, INDUSTRIAL SALES DEPARTMENT.

SECTION 3 PHYSICAL & CHEMICAL CHARACTERISTICS

SPECIFIC GRAVITY (WATER=1)--------7.8 (APPROX)
MELTING POINT----------1100-2500 F (593-1371 C) APPROX.
SOLUBILITY IN WATER----------NOT SOLUBLE
REACTIVITY IN WATER----------NOT REACTIVE
APPEARANCE AND ODOR----------SOLID METAL OBJECT. ANTI-RUST COATING HAS ODOR OF KEROSENE.

PERCENT VOLATILE BY WEIGHT--------NOT VOLATILE
VAPOR PRESSURE (mm Hg)----------NOT VOLATILE
VAPOR DENSITY (Air=1)----------NOT VOLATILE
EVAPORATION RATE ----------NOT VOLATILE

SECTION 4 SPECIAL PRECAUTIONS

HANDLING AND STORAGE: NONE Refer to Section 7.

SECTION 5 CORROSIVITY AND REACTIVITY DATA

STABILITY: Material is stable under normal conditions of transport and storage. POLYMERIZATION: Hazardous polymerization will not occur. INCOMPATIBILITY (MATERIALS TO AVOID): Acids, bases or strong oxidizing agents. HAZARDOUS DECOMPOSITION PRODUCTS: Metal fumes if heated. Anti-Rust coating is combustible and will produce oxides of carbon.

SECTION 6 HEALTH, FIRST AID AND MEDICAL DATA.

ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE OPERATIONS SUCH AS ABRADING, MELTING, WELDING, CUTTING OR PROCESSING IN ANY OTHER FASHION MAY PRODUCE POTENTIALLY HAZARDOUS DUST OR FUMES WHICH CAN BE INHALED, SWALLOWED, OR COME IN CONTACT WITH THE SKIN OR EYES. Dust or fume may cause irritation to the eyes, nose, or throat; leave a metallic taste in the mouth; result in metal fume fever (flu-like symptoms). Symptoms may be aggravated for sensitive individuals with respiratory conditions (such as emphysema). Persons with light skin, sensitive skin or large amounts of body hair may experience skin disorders from contact with metal fines.

ABBREVIATIONS USED IN THE FOLLOWING SECTION: NAIF=NO APPLICABLE INFORMATION FOUND, SKIN=SKIN ABSORPTION, EYE=EYE CONTACT, INHAL=INHALATION, INGEST=INGESTION

ALUMINUM: ACUTE: SKIN: May cause skin irritation. EYE: Dust may cause swelling and injury to the eye. INHAL: Nuisance dust. INGEST: NAIF. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: May cause irritation of the mucous membranes of the upper respiratory system. INGEST: NAIF.

CARBON: ACUTE: SKIN: May cause irritation. EYE: May cause irritation and swelling. INHAL: May cause irritation to the nose or throat (Bronchitis). INGEST: NAIF. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: As graphite. May produce a progressive and disabling lung disease. Symptoms include headache, coughing, depression, decreased appetite, difficult breathing and the production of black sputum. Individuals may be free of symptoms for many years and then suddenly become disabled. INGEST: NAIF.

CHROMIUM: ACUTE: SKIN: Chromium compounds may cause dermatitis. EYE: May cause irritation. INHAL: Dusts of the metal may cause coughing and wheezing, headache, difficult breathing, fever and loss of weight. INGEST: Literature reports [illegible] oral toxicity as LD Lo=71 mg/kg (Hamsters). CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: There are reports of a nodular t breathing disease with impairment of lung function. Some insoluble chromium compounds are suspected carcinogens. INGEST: N.

COBALT: ACUTE: SKIN: Cobalt can cause an allergy. Literature reports very small quantities have caused allergic sensitivity type dermatitis. Eruptions are usually located in the flexure creases of the elbow, knee, ankles, and neck. Cross sensitization can occur between cobalt and nickel and cobalt and chromium. EYE: May cause irritation. INHAL: Cobalt dust inhalation may cause an asthma-like disease characterized by coughing and difficult breathing. INGEST: Literature reports the oral toxicity to be LD Lo=1500 mg/kg (rats). Ingesting cobalt dust can cause vomiting and diarrhea. A sensation of hotness may occur after ingestion of excessive amounts. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: Inflammation of the lungs that may be reversible and abnormal tissue growth. INGEST: NAIF.

COPPER: ACUTE: SKIN: Changes causing hard or horny skin located on the hands and the soles of the feet has been reported. Copper salts may cause skin irritation (itching, redness and dermatitis). EYE: Copper salts may cause swelling, ulceration and cloudy cornea. INHAL: Melting, grinding, cutting of copper may produce fumes or dust exposure and breathing these fumes or dust may present health hazards. fumes of copper may cause "Metal fume fever" with flu-like symptoms and skin and hair discoloration. Copper dust and fume may cause irritation of the upper respiratory tract, metallic taste in the mouth, and nausea. INGEST: Salts of copper act as irritants producing salivation, nausea, vomiting, stomach pain, bleeding stomach inflammation and diarrhea. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: Ulceration with perforation of the nasal septum. INGEST: Individuals with Wilson's disease (hepatolenticular degeneration) can experience fatal intoxication.

IRON: ACUTE: SKIN: NAIF. EYE: Dust may irritate eyes. INHAL: NAIF. INGEST: NAIF. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: The inhalation of iron oxide fumes or dust may cause an apparent benign lung disease which is called siderosis. This disease is reported not to be disabling, but makes x-ray diagnosis of other lung conditions difficult or impossible. INGEST: NAIF

MANGANESE: ACUTE: SKIN: NAIF. EYE: May cause slight eye irritation. INHAL: Can cause bronchitis and inflammation of lung. Early symptoms of Manganese poisoning include lack of coordination, apathy, anorexia, headache and spasms. Freshly formed fumes can cause fever and chills similar to the flu. INGEST: Early symptoms of Manganese poisoning include lack of coor[illegible]n, apathy, anorexia, headache and spasms. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL/INGEST: Manganese poisoning is not f[illegible]ut may present a large range of nervous system disorders that vary among individuals. Advanced symptoms are similar to classical Parkinson's disease.

MOLYBDENUM: ACUTE: SKIN: NAIF. EYE: May irritate the eyes. INHAL: Inhalation of the dust or fumes of this metal can cause upper respiratory system irritation. INGEST: NAIF. CHRONIC: SKIN: NAIF. EYE: NAIF INHAL: Literature reports experiments with animals have shown cumulative liver and kidney damage (fatty changes) and blood disorders. INGEST: High dietary intake of molybdenum has been reported to be associated with a gout-like disease and high blood uric acid.

SUNNEN

MSDS 07

MATERIAL SAFETY DATA SHEET

NFPA DESIGNATION 704		
HAZARD RATING	- HEALTH	2 -
4=Extreme	- FIRE	4 -
3=High	- REACTIVITY	1 -
2=Moderate	- SPECIFIC HAZARD	NONE -
1=Slight		
0=Insignificant		

SECTION 1 NAME AND PRODUCT

MANUFACTURER'S NAME: SUNNEN PRODUCTS COMPANY
ADDRESS: 7910 Manchester Ave.
St. Louis, Mo. 63143
United States of America

CONTACT: Terry Heller
EMERGENCY PHONE NO: 314-781-2105
APPROVED BY: Terry Heller
TITLE: Manager, Materials R/D
DATE: August 15, 1987

TRADE NAME, COMMON NAME OR SPECIFICATION: Sunnen Spray Paint LBB-90438 or MBB-90437
CHEMICAL FAMILY: AEROSOLS, PAINT
CLASSIFICATION- SHIPPING NAME:Compressed Gas N.O.S., HAZARD CLASS:Flammable gas, DOT SHIPPING CLASS:ORM-D, ID Number:UN1954

SECTION 2 HAZARDOUS INGREDIENTS/IDENTITY (PER 29 C.F.R. 1910.1200(g))

COMMON NAME	CHEMICAL NAME OF COMPONENTS	CAS NO.	OSHA PEL	ACGIH TLV-TWA	CARCINOGENIC
PAINT					
XYLOL	XYLENE	1330-20-7	100 PPM	100 PPM	NO
N-BUTYL ACETATE	ACETIC ACID, BUTYL ESTER	123-86-4	150 PPM	150 PPM	NO
TOLUOL/LACOLENE	TOLUENE	108-88-3	200 PPM	100 PPM	NO
ISOPROPYL ALCOHOL	ISOPROPYL ALCOHOL	67-63-0	400 PPM	400 PPM	NO
METHYL ETHYL KETONE	2-BUTANONE	78-93-3	200 PPM	200 PPM	NO
BUTYL CELLOSOLVE	ETHANOL, 2-BUTOXY	111-76-2	50 PPM (skin)	25 PPM (skin)	NO
N-BUTANOL	BUTYL ALCOHOL	71-36-3	100 PPM	50 PPM (skin ceiling)	NO
METHYL ISOBUTYL KETONE	2-PENTANONE, 4-METHYL	108-10-1	100 PPM	50 PPM	NO
TITANIUM DIOXIDE	TITANIUM DIOXIDE	13463-67-7	15 mg/m cu	10 mg/m cu (dust)	NO
LEAD CHROMATE (1)	LEAD CHROMATE (1)	12656-85-8	.05 mg/m cu	.05 mg/m cu	NO*
IRON OXIDE (2)	IRON OXIDE (2)	1309-37-1	10 mg/m cu (fume)	5 mg/m cu (fume)	NO
SOLVENT/PROPELLANT					
ACETONE	ACETONE	67-64-1	750 PPM	750 PPM	NO
DIACETONE ALCOHOL	DIACETONE ALCOHOL	123-42-2	50 PPM	50 PPM	NO
ISOBUTANE	2-METHYL-PROPANE	75-28-5	800 PPM	800 PPM	NO
PROPANE	PROPANE	74-98-6	1000 PPM	NAIF	NO
N-BUTANE	N-BUTANE	106-97-8	NAIF	NAIF	NO

PPM=Parts per Million. NAIF=No applicable information found. (1) LBB-90438 only. (2) MBB-90437 only.
* ACGIH lists Lead Chromate as "suspect of carcinogenic potential for man."

SECTION 3 PHYSICAL & CHEMICAL CHARACTERISTICS

SPECIFIC GRAVITY (WATER=1)-- NAIF
REACTIVITY IN WATER--------- NOT REACTIVE
BOILING POINT--------------- < 0 degrees F (< -18 C)
VAPOR PRESSURE (mm Hg)------ NAIF
EVAPORATION RATE ----------- RELATIVE TO BUTYL ACETATE OR ETHER: Propellant is faster. Solvent is slower. Residual material is non-volitile.

SOLUBILITY IN WATER------ < .1% @ 77 F (25C)
APPEARANCE AND ODOR------ COLORED LIQUID WITH ODOR OF SOLVENT.
PERCENT VOLATILE BY VOLUME-- 91%
VAPOR DENSITY (Air=1)------- HEAVIER THAN AIR.

SECTION 4 SPECIAL PRECAUTIONS

HANDLING AND STORAGE: Do not store near fire or flame or where temperature exceeds 120 F (50 C). OTHER: Do not smoke when in use or when fumes are present. Use with positive ventilation.

SECTION 5 CORROSIVITY AND REACTIVITY DATA

STABILITY: Material is stable. POLYMERIZATION: Hazardous polymerization will not occur. INCOMPATIBILITY (materials to avoid): Peroxides or strong oxidizing agents such as chlorine, permanganates, and dichromates. DECOMPOSITION PRODUCTS: Combustion of material will produce oxides of carbon, lead and nitrogen.

SECTION 6 HEALTH, FIRST AID AND MEDICAL DATA.

ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE.
Primary routes of entry are inhalation, skin and eye contact. Vapors are anesthetic, irritate the respiratory tract and depress the nervous system. Symptoms include: drowsiness, headaches, dizziness, unconsciousness and coma. Repeated overexposure to solvents is reported to cause permanent damage to skin, eyes, nose, mucous membranes, lungs, thorax, liver, kidneys, brain and central nervous system. Individuals with existing respiratory impairment such as emphysema, may display an increased sensitivity to solvent vapors. ABBREVIATIONS USED IN THE FOLLOWING SECTION: NAIF=No applicable information found. SKIN=Skin absorption. EYE=Eye contact. INHAL=Inhalation. INGEST=Ingestion

ACETIC ACID, BUTYL ESTER (N-BUTYL ACETATE) **ACUTE:** SKIN: Causes irritation of skin. Nonspecific drying, cracking and increased susceptibility to infection. EYE: Causes eye irritation. INHAL: Causes irritation of upper respiratory system. Headache, drowsiness and drunkenness at high concentration. Affects central nervous system. INGEST: NAIF. **CHRONIC:** SKIN: NAIF. EYE: NAIF. INHAL: Kidney and blood changes in experimental animals. Affects lungs, thorax and breathing. INGEST: NAIF.

ACETONE: ACUTE SKIN: Skin irritation. Dermatitis. EYE: Liquid or vapors may irritate eyes. INHAL: Irritation of nose and throat. Headaches and dizziness. INGEST: NAIF. **CHRONIC:** SKIN: NAIF. EYE: NAIF. INHAL: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. INGEST: NAIF

N-BUTANE: ACUTE: SKIN: Frostbite. EYE: Frostbite may damage eyes. INHAL: Drunkenness. Asphyxiant. INGEST: A gas under normal atmospheric conditions is unlikely to be ingested. **CHRONIC:** SKIN: NAIF. EYE: NAIF. INHAL: NAIF. INGEST: NAIF.

2-BUTANONE (METHYL ETHYL KETONE): ACUTE: SKIN: Causes skin irritation. EYE: Causes eye irritation. INHAL: Attacks central nervous system and lungs. Irritation of nose and respiratory tract. Symptoms include headache, dizziness and vomiting. INGEST: Expected to be non-toxic based on literature reports that the LD50=2737 mg/kg (rats). Enhances toxicity of n-butyl ketone. **CHRONIC:** SKIN: NAIF. EYE: NAIF. INHAL: NAIF. INGEST: NAIF.

BUTYL ALCOHOL (N-BUTANOL): ACUTE: SKIN: Causes skin irritation and dermatitis. EYE: Causes irritation and inflammation. INHAL: Irritates the nose and eyes. Affects lungs, thorax and breathing. INGEST: Expected to be non-toxic based on literature reports that the LD50=790 mg/kg (rats). **CHRONIC:** SKIN: NAIF. EYE: NAIF. INHAL: NAIF. INGEST: NAIF.

DIACETONE ALCOHOL: ACUTE: SKIN: Causes skin irritation. EYE: Eye irritation and tissue damage. INHAL: Irritation of nose and throat. Drunkenness. INGEST: Drunkenness. **CHRONIC** SKIN: NAIF. EYE: NAIF. INHAL: NAIF. INGEST: Bizarre symptoms may result from the denaturants present in industrial alcohols.

ETHANOL, 2-BUTOXY (BUTYL CELLOSOLVE): ACUTE: SKIN: Penetrates intact skin. Depresses central nervous system. Kidney injury and blood in the urine. Expected to be toxic by skin absorption based on literature reports that the LD50=490 mg/kg (rabbits). EYE: Causes eye irritation. INHAL: Causes behavioral changes, headaches. INGEST: Expected to be non-toxic based on literature reports that the LD50=1480 mg/kg (rats). **CHRONIC:** SKIN: NAIF. EYE: NAIF. INHAL: NAIF. INGEST: Affects liver, kidneys and lymphoid system. Causes destruction of red blood cells and blood in urine.

IRON OXIDE: ACUTE: SKIN: NAIF. EYE: Dust may irritate eyes. INHAL: NAIF. INGEST: NAIF. **CHRONIC:** SKIN: NAIF. EYE: NAIF. INHAL: The inhalation of fumes or dust may cause an apparent benign lung disease which is called siderosis. This disease is reported not to be disabling, but makes x-ray diagnosis of other lung conditions difficult or impossible. INGEST: NAIF.

ISOPROPYL ALCOHOL: ACUTE: SKIN: May cause mild irritation of skin. EYE: May cause eye irritation. INHAL: Drunkenness at very high concentration based on animal studies. INGEST: Drunkenness. **CHRONIC:** SKIN: NAIF. EYE: NAIF INHAL: NAIF. INGEST: Bizarre symptoms may result from the denaturants present in industrial alcohols.

LEAD CHROMATE: ACUTE: SKIN: NAIF. EYE: Causes eye irritation. INHAL: Effects are non-specific. Decreased physical fitness, headache, constipation and stomach pain. Affects central nervous system. Overexposure can cause convulsions, coma and death. INGEST: Classical lead toxicity. Refer to inhalation of lead chromate. **CHRONIC:** SKIN: NAIF. EYE: NAIF. INHAL: Affects kidney function. Disturbs the blood chemistry. Reduces the number of red blood cells and causes a paleness of the skin. INGEST: Affects the blood, stomach and intestines, nervous and reproductive system. Suspect human carcinogen.

2-METHYL-PROPANE (ISOBUTANE): ACUTE: SKIN: Frostbite. EYE: NAIF. INHAL: An asphyxiant. Vapors effect the central nervous system causing dizziness, disorientation and excitation. INGEST: A gas under normal atmospheric conditions is unlikely to be ingested. **CHRONIC:** SKIN: NAIF. EYE: NAIF. INHAL: NAIF. INGEST: NAIF.

NFPA DESIGNATION 704

HAZARD RATING	- HEALTH	3 -
4=Extreme		
3=High	- FIRE	4 -
2=Moderate		
1=Slight	- REACTIVITY	1 -
0=Insignificant		
	- SPECIFIC HAZARD	NONE -

SUNNEN

MATERIAL SAFETY DATA SHEET

SECTION 1 NAME AND PRODUCT

MANUFACTURER'S NAME:	SUNNEN PRODUCTS COMPANY	CONTACT:	Terry Heller
ADDRESS:	7910 Manchester Ave.	EMERGENCY PHONE NO:	314-781-2105
	St. Louis, Mo. 63143	APPROVED BY:	Terry Heller
	United States of America	TITLE:	Manager, Materials R/D
		DATE:	August 15, 1987

TRADE NAME, COMMON NAME OR SPECIFICATION: **Sunnen B200 LUBRICANT**
CHEMICAL FAMILY: MIXTURE OF CHLORINATED HYDROCARBONS, ALKANE HYDROCARBONS AND POLYMERIZED PLANT OIL.
CLASSIFICATION: COMPRESSED GAS N.O.S.
D.O.T. SHIPPING CLASS: ORM-D

SECTION 2 HAZARDOUS INGREDIENTS/IDENTITY (PER 29 C.F.R. 1910.1200(g))

COMMON NAME	CHEMICAL NAME OF COMPONENTS	CAS NO	WT %	OSHA PEL	ACGIH TLV-TWA	OTHER	CARCINOGENIC
TRICHLOROETHANE			59.5				
(Stabilized)	1-1-1 TRICHLOROETHANE	71-55-6		350 PPM	350 PPM		NO
	TERT-BUTYL ALCOHOL	75-65-0		100 PPM	100 PPM		
	1,2-BUTYLENE OXIDE	106-688-7				*40 PPM	
	DIMETHOXYMETHANE	109-87-5			1000 PPM		
A-55		68476-8608	30			**860 PPM	NO
	ISOBUTANE			NONE	800 PPM		
	PROPANE			1000 PPM	NONE		
TALL OIL POLYMER		70900-00-4	10.5	NONE	NONE		NO

PPM=Parts per Million. * DOW INDUSTRIAL HYGIENE GUIDE, DOW CHEMICAL COMPANY ** CALCULATED

SECTION 3 PHYSICAL & CHEMICAL CHARACTERISTICS

SPECIFIC GRAVITY (WATER=1)-------- 1.041 CALCULATED
BOILING POINT---------- -43.7 F (-42 C) PROPELLANT
165 F (74 C) LUBRICANT MIXTURE
PERCENT VOLATILE BY WEIGHT-------- 89%
VAPOR PRESSURE (mm Hg)---------- 42 PSIG @ 68 F (20C)
VAPOR DENSITY (Air=1)---------- 2.871 ESTIMATED
EVAPORATION RATE ---------- FASTER THAN BUTYL ACETATE (Propellant/Solvent). Residual product is non-volatile.
SOLUBILITY IN WATER---------- < .1% @ 77 F (25C)
REACTIVITY IN WATER---------- NOT REACTIVE
APPEARANCE AND ODOR---------- AMBER COLOR LIQUID WITH ODOR OF CHLORINATED SOLVENT

SECTION 4 SPECIAL PRECAUTIONS

HANDLING AND STORAGE: DO NOT STORE NEAR FIRE OR FLAME OR WHERE TEMPERATURE EXCEEDS 120 F (50 C).
OTHER: DO NOT SMOKE WHEN FUMES ARE PRESENT. USE WITH POSITIVE VENTILATION.

SECTION 5 CORROSIVITY AND REACTIVITY DATA

STABILITY: MATERIAL IS STABLE.
POLYMERIZATION: HAZARDOUS POLYMERIZATION WILL NOT OCCUR.
INCOMPATIBILITY (materials to avoid): PEROXIDES OR STRONG OXIDIZING AGENTS SUCH AS CHLORINE, PERMANGANATES, AND DICHROMATES.
DECOMPOSITION PRODUCTS: COMBUSTION OF MATERIAL WILL PRODUCE OXIDES OF CARBON, NITROGEN AND OTHER PRODUCTS OF COMBUSTION. MAY PRODUCE TOXIC OR CORROSIVE FUMES SUCH AS HYDROGEN CHLORIDE AND SMALL AMOUNTS OF PHOSGENE AND CHLORINE WHEN HEATED TO DECOMPOSITION AS IN WELDING OR FIRE.

SECTION 6 HEALTH, FIRST AID AND MEDICAL DATA

PRIMARY ROUTE(S) OF ENTRY	ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE	FIRST AID AND MEDICAL INFORMATION
INHALATION	THE PROPELLANT (A55) IS AN ASPHYXIANT. THE SOLVENT (1-1-1 TRICHLOROETHANE) ACTS AS AN ANESTHETIC, CAUSES IRRITATION OF THE RESPIRATORY TRACK OR ACUTE NERVOUS SYSTEM DEPRESSION CHARACTERIZED BY THE FOLLOWING PROGRESSIVE STEPS: EYE WATERING, HEADACHE, DIZZINESS, STAGGERING GAIT, CONFUSION, CARDIAC ARRHYTHMIAS (IRREGULAR HEARTBEATS), UNCONSCIOUSNESS, COMA AND DEATH. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL. BASED ON AVAILABLE DATA, REPEATED EXPOSURES ARE NOT ANTICIPATED TO CAUSE ANY SIGNIFICANT ADVERSE EFFECTS. 1-1-1 TRICHLOROETHANE AND SIMILAR MIXTURES DID NOT CAUSE CANCER IN LONG TERM ANIMAL STUDIES. BIRTH DEFECTS ARE UNLIKELY. EXPOSURES HAVING NO ADVERSE EFFECTS ON THE MOTHER SHOULD HAVE NO EFFECT ON THE FETUS. IN ANIMAL STUDIES, HAS BEEN SHOWN NOT TO INTERFERE WITH REPRODUCTION. RESULTS OF IN VITRO ("TEST TUBE") MUTAGENICITY TESTS ON 1-1-1 TRICHLOROETHANE HAVE BEEN NEGATIVE. RESULTS OF MUTAGENICITY TESTS IN ANIMALS HAVE BEEN NEGATIVE.	REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE MOUTH TO MOUTH RESUSCITATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. SEEK MEDICAL ATTENTION.
INGESTION	THE PROPELLANT IS A GAS UNDER NORMAL ATMOSPHERIC CONDITIONS AND IS THEREFORE UNLIKELY TO BE INGESTED. THE SINGLE DOSE ORAL TOXICITY FOR THE SOLVENT AND LUBRICANT IS LOW. THE LD50 FOR RATS IS >10,000 mg/kg FOR 1-1-1 TRICHLOROETHANE. IF ASPIRATED (LIQUID ENTERS THE LUNG), IT MAY BE RAPIDLY ABSORBED THROUGH THE LUNGS AND RESULT IN INJURY TO OTHER BODY SYSTEMS.	DO NOT INDUCE VOMITING. CALL A PHYSICIAN AND/OR TRANSPORT TO EMERGENCY FACILITY IMMEDIATELY.
	NOTE TO PHYSICIAN: BECAUSE RAPID ABSORPTION MAY OCCUR THROUGH LUNGS IF ASPIRATED AND CAUSE SYSTEMIC EFFECTS, THE DECISION OF WHETHER TO INDUCE VOMITING OR NOT SHOULD BE MADE BY AN ATTENDING PHYSICIAN. IF LAVAGE IS PERFORMED, SUGGEST ENDOTRACHEAL AND/OR ESOPHAGEAL CONTROL. DANGER FROM LUNG ASPIRATION MUST BE WEIGHED AGAINST TOXICITY WHEN CONSIDERING EMPTYING THE STOMACH. EXPOSURE MAY INCREASE "MYOCARDIAL IRRITABILITY". DO NOT ADMINISTER SYMPATHOMIMETIC DRUGS UNLESS ABSOLUTELY NECESSARY. NO SPECIFIC ANTIDOTE. SUPPORTIVE CARE. TREATMENT BASED ON JUDGMENT OF THE PHYSICIAN IN RESPONSE TO REACTIONS OF THE PATIENT.	
SKIN CONTACT & ABSORPTION	PRIMARY IRRITANT. THE LD50 FOR RABBITS IS ABOUT 15,000 mg/kg FOR 1-1-1 TRICHLOROETHANE. PROLONGED OR REPEATED CONTACT MAY CAUSE DRYING OR FLAKING OF THE SKIN.	WASH HANDS WITH MILD NON-ABRASIVE SOAP AND WATER. IF IRRITATION DEVELOPS SEEK MEDICAL ATTENTION.
EYE	MAY CAUSE PAIN. MAY CAUSE SLIGHT TRANSIENT (TEMPORARY) IRRITATION WITH SLIGHT TRANSIENT CORNEAL INJURY. VAPORS MAY IRRITATE EYES.	REMOVE CONTACT LENSES (IF WEARING) AND FLUSH EYES WITH WATER FOR 15 MINUTES. SEEK MEDICAL ATTENTION.

SECTION 7 HANDLING, STORAGE AND USE PROCEDURES

NORMAL STORAGE AND HANDLING: STORE IN WELL VENTILATED AREAS AWAY FROM SOURCES OF IGNITION AS DAMAGED OR LEAKING CANS WILL

NFPA DESIGNATION 704		
HAZARD RATING	- HEALTH	0 -
4=Extreme		
3=High	- FIRE	1 -
2=Moderate		
1=Slight	- REACTIVITY	0 -
0=Insignificant		
	- SPECIFIC HAZARD	NONE -

SUNNEN

MATERIAL SAFETY DATA SHEET

SECTION 1 NAME AND PRODUCT

MANUFACTURER'S NAME: SUNNEN PRODUCTS COMPANY
ADDRESS: 7910 Manchester Ave.
St. Louis, Mo. 63143
United States of America

CONTACT: Terry Heller
EMERGENCY PHONE NO: 314-781-2105
APPROVED BY: Terry Heller
TITLE: Manager, Materials R/D
DATE: August 15, 1987

TRADE NAME, COMMON NAME OR SPECIFICATION: **MAN-863 HONING OIL**

CHEMICAL FAMILY: NON-PETROLEUM FATTY OIL WITH ADDITIVES AND METAL DEACTIVATOR.
CLASSIFICATION: NOT APPLICABLE
D.O.T. SHIPPING CLASS: NOT APPLICABLE

SECTION 2 HAZARDOUS INGREDIENTS/IDENTITY (PER 29 C.F.R. 1910.1200(g))

COMMON NAME	CHEMICAL NAME OF COMPONENTS	CAS NO	OSHA PEL mg./cu. m.	ACGIH TLV-TWA mg./cu. m.	WT % Range	CARCINOGENIC

WHEN EVALUATED IN ACCORDANCE WITH THE PROVISIONS OF THE FEDERAL HAZARD COMMUNICATION RULE 29 CFR 1910.1200 MAN-852 WAS JUDGED TO BE NON-HAZARDOUS.

FOR FURTHER SAFETY AND HEALTH INFORMATION REGARDING THE COMPOSITION OF THIS MATERIAL CONTACT SUNNEN PRODUCTS, INDUSTRIAL SALES DEPARTMENT.

SECTION 3 PHYSICAL & CHEMICAL CHARACTERISTICS

SPECIFIC GRAVITY (WATER=1)--------.91
PERCENT VOLATILE BY WEIGHT--------<1%
BOILING POINT----------->460 F (235 C)
VAPOR PRESSURE (mm Hg)----------<.1mm Hg @ 68 F (20 C)
VAPOR DENSITY (Air=1)----------Heavier than air.
EVAPORATION RATE ----------Negligible
SOLUBILITY IN WATER----------Negligible. Material is completely soluble in common hydrocarbon or chlorinated hydrocarbon solvents such as mineral spirits or trichloroethane.
REACTIVITY IN WATER----------No hazardous reactions.
APPEARANCE AND ODOR----------Amber color liquid with fatty odor.

SECTION 4 SPECIAL PRECAUTIONS

HANDLING AND STORAGE: Store away from heat or flame. Read and follow container warnings. Refer to MSDS Section 7 & 8

SECTION 5 CORROSIVITY AND REACTIVITY DATA

STABILITY: Material is stable under normal conditions of transport and storage.
POLYMERIZATION: Hazardous polymerization will not occur.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidation agents such as fuming nitric acid. Product may react with any amount of alkalai such as part cleaners to form corresponding amounts of soaps and/or emulsions. Contains Amines. Do not add sodium nitrite or other nitrosating agents to this material. Suspected cancer-causing nitrosamines could be formed.
CONDITIONS TO BE AVOIDED: Oxidizing conditions. Mixing with water or alkalai (forms soaps).
HAZARDOUS DECOMPOSITION PRODUCTS: Combustion of material will produce oxides of Sulfur, Carbon and Nitrogen. Material is organic and will slowly oxidize and decay forming compounds containing Carbonyl group, Hydroxyl group, Carboxyl group, Oxirane, glycerol, hydroperoxides, aldehydes, ketones and acids.

SECTION 6 HEALTH, FIRST AID AND MEDICAL DATA

ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE
PRIMARY ROUTE(S) OF ENTRY ARE: INHALATION AND SKIN ABSORPTION. Abbreviations used in the following section: SKIN=Skin bsorption. EYE=Eye contact. INHAL=Inhalation INGEST=Ingestion.

ACUTE: SKIN: Material is not sterile and may infect open cuts or sores. When tested, MAN-863 was judged to be non-irritating per 16 CFR 1500.3(c)(4). Primary irritation index=0 (Albino Rabbits). EYE: Overheating (>200 F) used material can release Acrolein (an eye irritant) causing redness and burning of the eyes. When tested, MAN-863 was judged to be non-irritating per 16 CFR 1500.42 No corneal opacity, iritis or moderate conjunctival irritation after; 1,2,3 days (Draize, rabbits). INHAL: Not established. Suggest ACGIH limits for vegetable oil mists of 5 mg/cu m. be observed. Symptoms of overexposure include coughing, sore throat, headache, chest pain and difficult breathing. Predisposing factors: Individuals with pre-existing respiratory impairments (such as emphyzema) can display increased sensitivity to oil mists or vapors. INGEST: Loose bowel movements. Acute oral toxicity: LD 50>5 gm./kg. (rats). **CHRONIC** SKIN: Prolonged repeated skin contact can cause skin irritation or oil acne: inflammation and blackheads due to mechanical blockage of the pores. Predisposing factors: Usually individuals with sensitive skin or large amounts of body hair. EYE: None known. INHAL: None known. INGEST: None known.

EMERGENCY FIRST AID

INHALATION: Remove from further exposure. If unconsciousness occurs, seek immediate medical assistance and call a physician. If breathing has stopped, begin mouth to mouth resuscitation. **EYE CONTACT:** Remove contact lenses (if wearing) and flush eyes with water for 15 minutes. Seek medical attention to check for possible irritation. **SKIN CONTACT:** Wash contact areas with mild non-abrasive soap and water. **INGESTION:** Do not induce vomiting. Call physician or poison control center immediately.

SECTION 7 HANDLING, STORAGE AND USE PROCEDURES

NORMAL STORAGE AND HANDLING: Store away from heat or flame as the material will expand if overheated and possibly rupture the container spilling the contents. The spilled material will create a slip hazard and will burn if ignited. If stored outdoors, store so as to shed water to prevent rusting of drums and spilling contents. Plastic containers are brittle if frozen and may split and leak if handled roughly. Spilled material creates a fall/slip hazard. Since emptied containers retain material residue, follow label warnings even after container is emptied and do not reuse container for other purposes. Do not cut, braze, weld, solder, pressurize or introduce ignition sources in or around container. Do not transfer to unlabeled containers. For industrial use only. Material should be heated to 100 F and mixed prior to transfer of contents if product separates as a result of cold storage (T<50 F). Vent container if heating. Use drum heater for drums. Pails may be immersed in hot water to warm contents. Use personal protection equipment and precautions as specified in Section 8.

NORMAL USE: Material is for use in Honing Machines only. Material may be mixed with other Sunnen Honing Oils only. C material from parts using alkaline cleaner. Pollution by any amount of water or alkaline material will lead to the formation of soaps that clog the Honing Machine oil filter.
STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS: Contain and absorb on fire-retardant treated sawdust, diatomaceous earth or other suitable absorbent. Notify Coast Guard if spill could reach any waterways (1-800-424-8802) and also local/state authorities. Spilled material is greasy and produces a slip/fall hazard.
WASTE DISPOSAL METHOD: Dispose of in accordance with applicable federal, state and local laws, regulations, rules, orders and ordinances.

NFPA DESIGNATION 704

HAZARD RATING	- HEALTH	0 -
4=Extreme		
3=High	- FIRE	1 -
2=Moderate		
1=Slight	- REACTIVITY	0 -
0=Insignificant		
	- SPECIFIC HAZARD	NONE -

SUNNEN

MATERIAL SAFETY DATA SHEET

SECTION 1 NAME AND PRODUCT

MANUFACTURER'S NAME:	SUNNEN PRODUCTS COMPANY	CONTACT:	Terry Heller
ADDRESS:	7910 Manchester Ave.	EMERGENCY PHONE NO:	314-781-2105
	St. Louis, Mo. 63143	APPROVED BY:	Terry Heller
	United States of America	TITLE:	Manager, Materials R/D
		DATE:	August 15, 1987

TRADE NAME, COMMON NAME OR SPECIFICATION: **CK448A GEAR OIL**

CHEMICAL FAMILY: PETROLEUM HYDROCARBONS AND ADDITIVES. CLASSIFICATION: PETROLEUM OIL N.O.S.
D.O.T. SHIPPING CLASS: COMBUSTIBLE LIQUID. IDENTIFICATION NUMBER: UN 1270.

SECTION 2 HAZARDOUS INGREDIENTS/IDENTITY (PER 29 C.F.R. 1910.1200(g))

COMMON NAME	CHEMICAL NAME OF COMPONENTS	CAS NO	Wt.%	OSHA PEL mg./cu. m.	ACGIH TLV-TWA mg./cu. m.	CARCINOGENIC
MINERAL OIL	REFINED MINERAL OIL	NAIF	> 95	5 (mist)	5 (mist)	N
LARD OIL	OILS, LARD	8016-28-2	< 5	NOT ESTABLISHED	NOT ESTABLISHED	N

NAIF=No applicable information found

FOR FURTHER SAFETY AND HEALTH INFORMATION REGARDING THE COMPOSITION OF THIS MATERIAL CONTACT SUNNEN PRODUCTS, INDUSTRIAL SALES DEPARTMENT.

SECTION 3 PHYSICAL & CHEMICAL CHARACTERISTICS

SPECIFIC GRAVITY (WATER=1)--------.904
PERCENT VOLATILE BY WEIGHT--------<1%
BOILING POINT----------->600 F (316 C)
VAPOR PRESSURE (mm Hg)----------<.1mm Hg @ 77 F (25 C)
VAPOR DENSITY (Air=1)----------HEAVIER THAN AIR
EVAPORATION RATE ----------NEGLIGIBLE
SOLUBILITY IN WATER----------NEGLIGIBLE. MATERIAL IS COMPLETELY SOLUBLE IN COMMON HYDROCARBON OR CHLORINATED HYDROCARBON SOLVENTS SUCH AS MINERAL SPIRITS OR TRICHLOROETHANE.
REACTIVITY IN WATER----------NO HAZARDOUS REACTIONS
APPEARANCE AND ODOR----------DARK GREEN LIQUID.

SECTION 4 SPECIAL PRECAUTIONS

HANDLING AND STORAGE: NONE Refer to Section 7

SECTION 5 CORROSIVITY AND REACTIVITY DATA

STABILITY: MATERIAL IS STABLE UNDER NORMAL CONDITIONS OF TRANSPORT AND STORAGE.
POLYMERIZATION: HAZARDOUS POLYMERIZATION WILL NOT OCCUR.
INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDATION AGENTS.
HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE FROM COMBUSTION.

SECTION 6 HEALTH, FIRST AID AND MEDICAL DATA

PRIMARY ROUTE(S) OF ENTRY ARE: INGESTION, INHALATION AND SKIN ABSORPTION.
ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE

ACUTE: Contact with material may cause eye or skin irritation of sensitive individuals.
ORAL TOXICITY (RATS): LD50>15 gm/kg nontoxic (estimated).--based on testing of similar products and/or the components.
DERMAL TOXICITY (RABBITS): LD50>5 gm/kg nontoxic (estimated).--based on testing of similar products and/or the components.
INHALATION TOXICITY (RATS): No applicable information found.
EYE IRRITATION (RABBITS): Expected to be non-irritating.--Based on testing of similar products and/or the components.
SKIN IRRITATION (RABBITS): Expected to be non-irritating.--Based on testing of similar products and/or the components.

CHRONIC: Prolonged or repeated skin contact may cause dermatitis (skin irritation).

EMERGENCY FIRST AID

INHALATION: Remove to fresh air. If not breathing, begin mouth to mouth resuscitation. Seek medical attention.
EYE CONTACT: Remove contact lenses (if wearing) and flush eyes with water for 15 minutes. Seek medical attention to check for possible irritation. **SKIN CONTACT:** Wash hands with mild non-abrasive soap and water.
INGESTION: Seek medical attention.

SECTION 7 HANDLING, STORAGE AND USE PROCEDURES

NORMAL STORAGE AND HANDLING: Store away from heat or flame. If stored outdoors, store so as to shed water.

NORMAL USE: May cause skin irritation and/or defat the skin on prolonged or repeated contact. Practice good personal hygiene by washing hands several times each day. Launder contaminated clothing before reuse. Avoid wearing clothing soaked with fluid. Avoid prolonged inhalation of mist or vapors. Do not transfer to unlabeled containers. Do not reuse containers for other materials or purposes. Do not cut, braze, weld, solder, or pressurize container as doing so may cause container to EXPLODE, potentially causing serious injury or DEATH. FOR INDUSTRIAL USE ONLY. Not suitable for use in or around household or dwelling. All precautions detailed on the container label apply to partially full or empty containers. Do not attempt to clean as residue is difficult to remove. Containers should be disposed of in an environmentally safe manner and in accordance with applicable governmental regulations.

STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS: Absorb on fire retardant absorbant. Gather and dispose of in accordance with applicable regulations. Notify Coast Guard if spill could reach any waterway (1-800-424-8802).

WASTE DISPOSAL METHODS: Dispose of in accordance with applicable federal, state and local laws, regulations, rules, orders and ordinances.

SECTION 8 PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: If use conditions give rise to excessive mist (greater than 5 mg/cu M) use a NIOSH approved respirator rated for mineral oil mist or forced ventilation to reduce mist exposure to well below TLV levels.

VENTILATION-LOCAL: Normal. MECHANICAL: Required if use conditions give rise to levels greater than 5 mg/cu M.
OTHER: No applicable information found.

NFPA DESIGNATION 704

HAZARD RATING	- HEALTH	0 -
4=Extreme		
3=High	- FIRE	1 -
2=Moderate		
1=Slight	- REACTIVITY	0 -
0=Insignificant		
	- SPECIFIC HAZARD	NONE -

SUNNEN

MATERIAL SAFETY DATA SHEET

SECTION 1 NAME AND PRODUCT

MANUFACTURER'S NAME: SUNNEN PRODUCTS COMPANY
ADDRESS: 7910 Manchester Ave.
St. Louis, Mo. 63143
United States of America

CONTACT: Terry Heller
EMERGENCY PHONE NO: 314-781-2105
APPROVED BY: Terry Heller
TITLE: Manager, Materials R/D
DATE: August 15, 1987

TRADE NAME, COMMON NAME OR SPECIFICATION: PIJI-100/101/105 AND BP-99 HYDRAULIC OIL

CHEMICAL FAMILY: PETROLEUM HYDROCARBONS AND ADDITIVES.
D.O.T. SHIPPING CLASS: COMBUSTIBLE LIQUID.
CLASSIFICATION: PETROLEUM OIL N.O.S.
IDENTIFICATION NUMBER: UN1270

SECTION 2 HAZARDOUS INGREDIENTS/IDENTITY (PER 29 C.F.R. 1910.1200(g))

COMMON NAME	CHEMICAL NAME OF COMPONENTS	CAS NO	Wt.%	OSHA PEL mg./cu. m.	ACGIH TLV-TWA mg./cu. m.	CARCINOGENIC
OIL	REFINED MINERAL OIL	64742-54-7	> 95	5 (mist)	5 (mist)	N

FOR FURTHER SAFETY AND HEALTH INFORMATION REGARDING THE COMPOSITION OF THIS MATERIAL CONTACT SUNNEN PRODUCTS, INDUSTRIAL SALES DEPARTMENT.

SECTION 3 PHYSICAL & CHEMICAL CHARACTERISTICS

SPECIFIC GRAVITY (WATER=1)--------.87
PERCENT VOLATILE BY WEIGHT--------<1%
BOILING POINT----------->600 F (316 C)
VAPOR PRESSURE (mm Hg)----------<.1mm Hg @ 68 F (20 C)
VAPOR DENSITY (Air=1)----------No applicable information found.
EVAPORATION RATE ----------NEGLIGIBLE
SOLUBILITY IN WATER----------NEGLIGIBLE. MATERIAL IS COMPLETELY SOLUBLE IN COMMON HYDROCARBON AND CHLORINATED HYDROCARBON SOLVENTS SUCH AS MINERAL SPIRITS OR TRICHLOROETHANE.
REACTIVITY IN WATER----------NOT REACTIVE
APPEARANCE AND ODOR----------ASTM 4.0 LIQUID.

SECTION 4 SPECIAL PRECAUTIONS

HANDLING AND STORAGE: NONE. Refer to section 7.

SECTION 5 CORROSIVITY AND REACTIVITY DATA

STABILITY: MATERIAL IS STABLE UNDER NORMAL CONDITIONS OF TRANSPORT AND STORAGE.
POLYMERIZATION: HAZARDOUS POLYMERIZATION WILL NOT OCCUR.
INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZING AGENTS
HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE FROM COMBUSTION

SECTION 6 HEALTH, FIRST AID AND MEDICAL DATA

PRIMARY ROUTE(S) OF ENTRY ARE: INGESTION and SKIN ABSORPTION.
ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE

ACUTE: ORAL TOXICITY (RATS): LD50: > 5 G/KG 0/10 Rats died at this dosage level. Slightly toxic (estimated)--based on testing of similar products and/or the components.
DERMAL TOXICITY (RABBITS): LD 50: > 2 G/KG 0/10 Rabbits died at this dosage level. Slightly toxic (estimated).--based on testing of similar products and/or the components.
INHALATION TOXICITY (RATS): Not established. Harmful concentrations of mists and/or vapors are unlikely to be encountered through any customary or reasonably foreseeable handling, use, or misuse of this product.
EYE IRRITATION (RABBITS): Expected to be non-irritation.--Based on testing of similar products and/or the components.
SKIN IRRITATION (RABBITS): May cause slight irritation on prolonged or repeated contact.--Based on testing of similar products and/or the components.

CHRONIC: The base oils in this product are severely solvent refined and/or severely hydrotreated. Two year mouse skin painting studies of similar oils showed no evidence of carcinogenic effects. Severely solvent refined and severely hydrotreated mineral base oils have been tested by dermal application to rats 5 days/week for 90 days at doses significantly higher than those expected during normal industrial exposure. Extensive evaluations including microscopic examination of internal organs and clinical chemistry of body fluids, showed no adverse effects.

EMERGENCY FIRST AID

INHALATION: Remove from further exposure. If unconsciousness occurs, seek immediate medical assistance and call a physician. If breathing has stopped, begin mouth to mouth resuscitation. **EYE CONTACT:** Remove contact lenses (if wearing) and flush eyes with water for 15 minutes. Seek medical attention to check for possible irritation. **SKIN CONTACT:** Wash contact areas with mild non-abrasive soap and water. **INGESTION:** Not expected to be a problem. However, if greater than 1/2 liter (Pint) ingested, immediately give 1 to 2 glasses of water and call a physician, hospital emergency room or poison control center for assistance. Do not induce vomiting or give anything by mouth to an unconscious person.

SECTION 7 HANDLING, STORAGE AND USE PROCEDURES

NORMAL STORAGE AND HANDLING: Store away from heat or flame. If stored outdoors, store so as to shed water.

NORMAL USE: May cause skin irritation and/or defat the skin on prolonged or repeated contact. Practice good personal hygiene by washing hands several times each day. Launder contaminated clothing before reuse. Avoid wearing clothing soaked with fluid. Avoid prolonged inhalation of mist or vapors. Do not transfer to unlabeled containers. Do not reuse containers for other materials or purposes. Do not cut, braze, weld, solder, or pressurize container as doing so may cause container to EXPLODE, potentially causing serious injury or DEATH. FOR INDUSTRIAL USE ONLY. Not suitable for use in or around household or dwelling. All precautions detailed on the container label apply to partially full or empty containers. Do not attempt to clean as residue is difficult to remove. Empty drums should be completely drained, properly closed and returned to a drum conditioner to be commercially cleaned. Otherwise, containers should be disposed of in an environmentally safe manner and in accordance with applicable governmental regulations.

STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS: Absorb on fire retardant absorbant. Gather and dispose of in accordance with applicable regulations. Notify Coast Guard if spill could reach any waterway (1-800-424-8802).

WASTE DISPOSAL METHODS: Dispose of in accordance with applicable federal, state and local laws, regulations, rules, orders and ordinances.

NFPA DESIGNATION 704		
HAZARD RATING	HEALTH	0
4=Extreme		
3=High	FIRE	0
2=Moderate		
1=Slight	REACTIVITY	0
0=Insignificant		
	SPECIFIC HAZARD	NONE

SUNNEN

MATERIAL SAFETY DATA SHEET

SECTION 1 NAME AND PRODUCT

MANUFACTURER'S NAME: SUNNEN PRODUCTS COMPANY
ADDRESS: 7910 Manchester Ave.
St. Louis, Mo. 63143
United States of America

CONTACT: Terry Heller
EMERGENCY PHONE NO: 314-781-2105
APPROVED BY: Terry Heller
TITLE: Manager, Materials R/D
DATE: August 15, 1987

TRADE NAME, COMMON NAME OR SPECIFICATION: **Sunnen CRG OR VR Grinding Wheel (Example CRG-803 or VR-601).**

CHEMICAL FAMILY: Vitrified Abrasive CLASSIFICATION: Not applicable D.O.T. SHIPPING CLASS: Not applicable

SECTION 2 HAZARDOUS INGREDIENTS/IDENTITY (PER 29 C.F.R. 1910.1200(g))

COMMON NAME	CHEMICAL NAME OF COMPONENTS	CAS NO	OSHA PEL mg./cu. m.	ACGIH TLV-TWA mg./cu. m.	CARCINOGENIC
CRYSTOLON	SILICON CARBIDE	409-21-2	15 Total Dust	10 Total dust	N
ALUNDUM	ALPHA-ALUMINA	1344-28-1	15 Total Dust	10 Total dust	N

FOR FURTHER SAFETY AND HEALTH INFORMATION REGARDING THE COMPOSITION OF THIS MATERIAL CONTACT SUNNEN PRODUCTS, INDUSTRIAL SALES DEPARTMENT.

SECTION 3 PHYSICAL & CHEMICAL CHARACTERISTICS

SPECIFIC GRAVITY (WATER=1)--------3 (APPROX)
MELTING POINT----------NO APPLICABLE INFORMATION FOUND.
VAPOR DENSITY (Air=1)----------NOT VOLATILE
SOLUBILITY IN WATER----------SLIGHT
APPEARANCE AND ODOR----------SOLID MATERIAL. MAY GIVE OFF ODOR IN USE

PERCENT VOLATILE BY WEIGHT--------NOT VOLATILE
VAPOR PRESSURE (mm Hg)----------NOT VOLATILE
EVAPORATION RATE ----------NOT VOLATILE
REACTIVITY IN WATER----------NOT REACTIVE

SECTION 4 SPECIAL PRECAUTIONS

HANDLING AND STORAGE: NONE Refer to Section 7.

SECTION 5 CORROSIVITY AND REACTIVITY DATA

STABILITY: MATERIAL IS STABLE UNDER NORMAL CONDITIONS OF TRANSPORT AND STORAGE.
POLYMERIZATION: HAZARDOUS POLYMERIZATION WILL NOT OCCUR.
INCOMPATIBILITY (MATERIALS TO AVOID): Avoid acids of all types with a PH <=4.0. HAZARDOUS DECOMPOSITION PRODUCTS: In use, dusts are generated. In most cases, the material removed from the work piece will be significantly greater than the grinding wheel components. Coolants may produce other decomposition products.

SECTION 6 HEALTH, FIRST AID AND MEDICAL DATA

ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE

USING THE GRINDING WHEEL IN ITS INTENDED MANNER MAY PRODUCE POTENTIALLY HAZARDOUS DUST OR FUMES WHICH CAN BE INHALED, SWALLOWED, OR COME IN CONTACT WITH THE SKIN OR EYES.

PRIMARY ROUTE(S) OF ENTRY ARE: INHALATION, INGESTION, AND SKIN ABSORPTION.

ACUTE:
Dust or fume may leave a metallic taste in the mouth, result in metal fume fever or produce flu-like symptoms. Dust may cause irritation to the eyes, skin, nose, or throat. Inhalation of dust during grinding may produce coughing and shortness of breath. Symptoms may be aggravated for sensitive individuals with respiratory conditions such as emphysema. Persons with light skin, sensitive skin or large amounts of body hair may experience increased sensitivity to skin disorders from contact with metal fines. Grinding may create elevated sound levels which may affect hearing.

CHRONIC: Inhalation during grinding may affect breathing capacity and cause permanate lung disease. Prolonged exposure to excessive noise can cause permanent hearing loss.

EMERGENCY FIRST AID

INHALATION: Remove to fresh air. If not breathing, begin mouth to mouth resuscitation. Seek medical attention.
EYE CONTACT: Remove contact lenses (if wearing) and flush eyes with water to remove particulates. Seek medical attention to check for possible irritation. **SKIN CONTACT:** Brush off excess dust. Wash hands with mild non-abrasive soap and water. **INGESTION:** Seek medical attention.

SECTION 7 HANDLING, STORAGE AND USE PROCEDURES

NORMAL STORAGE AND HANDLING: SEE ANSI STANDARD B7.1
NORMAL USE: HANDLE WITH ADEQUATE VENTILATION. SEE OSHA 29 CFR 1910.94 (VENTILATION) AND 29 CFR 1910.1000 (AIR CONTAMINATES
STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS: Normal cleanup procedures.
WASTE DISPOSAL METHODS: Dispose of in accordance with applicable federal, state and local laws, regulations, rules, orders and ordinances.

SECTION 8 PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: None required under normal conditions of use with adequate ventilation. If dust levels approach TLV use a NIOSH approved respirator or forced ventilation to maintain dust levels below ACGIH/OSHA TLV/PEL levels. See OSHA 29 CFR 1910.134.
VENTILATION LOCAL: Recommended. MECHANICAL: Recommended.
SKIN PROTECTION: Not required.
EYE PROTECTION: Always wear NIOSH approved safety glasses when operating machinery. See OSHA 29 CFR 1910.133.
OTHER EQUIPMENT: Hearing protection if noise levels exceed NIOSH/OSHA TLV/PEL levels. See OSHA 29 CFR 1910.215

SECTION 9 FIRE AND EXPLOSION HAZARD DATA

No hazard. Not combustible in air.

NOTICE

THIS MATERIAL SAFETY DATA SHEET ("MSDS") IS SUPPLIED PURSUANT TO THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION'S HAZARD COMMUNICATION RULE (THE "RULE"), 29 CFR 1910.1200. THIS MSDS IS BEING FURNISHED TO THE IMMEDIATE PURCHASER OF THE MATERIAL TO WHICH IT REFERS WITHOUT REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS OR ACCURACY OF ANY INFORMATION OR RECOMMENDATIONS CONTAINED HEREIN.

THIS MSDS IS OFFERED SOLELY TO COMPLY WITH THE RULE AND IS NOT INTENDED TO CREATE ANY LIABILITY OF ANY KIND ON THE PART OF SUNNEN PRODUCTS COMPANY ("SUNNEN"). IN NO EVENT WILL SUNNEN BE RESPONSIBLE FOR ANY DEATH, INJURY OR DAMAGE OF ANY NATURE WHATSOEVER RESULTING FROM THE USE OF, RELIANCE UP OR MISUSE OF THE MSDS. NO REPRESENTATIONS OR WARRANTIES, WHETHER EXPRESSE. OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER NATURE, ARE MADE HEREUNDER. THIS MSDS IS NOT INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR EXTEND LICENSES UNDER VALID PATENTS.

THIS MSDS IS FURNISHED UPON THE EXPRESS CONDITION THAT ALL PERSONS RECEIVING IT WILL MAKE THEIR OWN DETERMINATION AS TO ITS SUITABILITY FOR THEIR PURPOSED PRIOR TO USE. RESPONSIBILITY FOR COMPLIANCE WITH APPLICABLE FEDERAL, STATE OR LOCAL REGULATIONS CONCERNING DISSEMINATION OF THE MSDS AND SALE AND USE OF THE MATERIAL TO WHICH IT REFERS RESTS SOLELY UPON THE PURCHASER.

NFPA DESIGNATION 704		
HAZARD RATING	HEALTH	1
4=Extreme		
3=High	FIRE	0
2=Moderate		
1=Slight	REACTIVITY	0
0=Insignificant		
	SPECIFIC HAZARD	NONE

SUNNEN

MATERIAL SAFETY DATA SHEET

SECTION 1 NAME AND PRODUCT

MANUFACTURER'S NAME:	SUNNEN PRODUCTS COMPANY	CONTACT:	Terry Heller
ADDRESS:	7910 Manchester Ave.	EMERGENCY PHONE NO:	314-781-2105
	St. Louis, Mo. 63143	APPROVED BY:	Terry Heller
	United States of America	TITLE:	Manager, Materials R/D
		DATE:	August 15, 1987

TRADE NAME, COMMON NAME OR SPECIFICATION: **MS-1101G, SCC-100 or SCC-101 COOLANT**

CHEMICAL FAMILY: CHEMICAL MIXTURE CLASSIFICATION: NOT APPLICABLE D.O.T. SHIPPING CLASS: NOT APPLICABLE

SECTION 2 HAZARDOUS INGREDIENTS/IDENTITY (PER 29 C.F.R. 1910.1200(g))

COMMON NAME	CHEMICAL NAME OF COMPONENTS	CAS NO	Wt.%	OSHA PEL mg./cu. m.	ACGIH TLV-TWA mg./cu. m.	CARCINOGENIC

This product has been determined to be nonhazardous, in accordance with 29 CFR 1910.1200 (d) (Hazard Determination).

FOR FURTHER SAFETY AND HEALTH INFORMATION REGARDING THE COMPOSITION OF THIS MATERIAL CONTACT SUNNEN PRODUCTS, INDUSTRIAL SALES DEPARTMENT.

SECTION 3 PHYSICAL & CHEMICAL CHARACTERISTICS

SPECIFIC GRAVITY (WATER=1)·····.996
BOILING POINT·····212 F (100 C)
EVAPORATION RATE·····Like water
SOLUBILITY IN WATER·····100%
APPEARANCE AND ODOR·····Clear; burgundy

PERCENT VOLATILE BY WEIGHT·····No applicable information found.
VAPOR DENSITY (Air=1)·····No applicable information found.
VAPOR PRESSURE (mm Hg)·····No applicable information found.
REACTIVITY IN WATER·····NOT REACTIVE

SECTION 4 SPECIAL PRECAUTIONS

HANDLING AND STORAGE: NONE Refer to Section 7.

SECTION 5 CORROSIVITY AND REACTIVITY DATA

STABILITY: MATERIAL IS STABLE UNDER NORMAL CONDITIONS OF TRANSPORT AND STORAGE.
POLYMERIZATION: HAZARDOUS POLYMERIZATION WILL NOT OCCUR.
INCOMPATABILITY (MATERIALS TO AVOID): AVOID CONTACT OF CONCENTRATE WITH STRONG ACIDS. CONTAINS AMINES. DO NOT ADD SODIUM NITRITE OR OTHER NITROSATING AGENTS TO THIS MATERIAL. SUSPECTED CANCER-CAUSING NITROSAMINES COULD BE FORMED.
HAZARDOUS DECOMPOSITION PRODUCTS: NO APPLICABLE INFORMATION FOUND.

SECTION 6 HEALTH, FIRST AID AND MEDICAL DATA

PRIMARY ROUTE(S) OF ENTRY ARE: INGESTION, INHALATION AND SKIN ABSORPTION.

ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE

ACUTE: ORAL TOXICITY (LD50 RATS)- Above 5 g/kg (Undiluted) Non-toxic.
INHALATION TOXICITY (LC50 RATS)- Above 20 mg/l for a 10% mix.
EYE IRRITATION (RABBITS)- Negative (Undiluted); no irritative or corrosive effects.
SKIN IRRITATION (RABBITS)- Negative (Undiluted); noncorrosive and not a primary skin irritant.
DERMAL TOXICITY (LD50 RABBITS)- Above 2 g/kg (Undiluted)
BACTERIAL MUTAGENIC (AMES) TEST- Non-mutagenic.

This product is not a primary skin irritant; however, skin irritation may occur if used improperly (concentrate or mix). May aggravate existing skin irritation where further defatting or skin penetration could occur.

CHRONIC: No applicable information found.

EMERGENCY FIRST AID

INHALATION: Remove from further exposure. If unconsciousness occurs, seek immediate medical assistance and call a physician. If breathing has stopped, begin mouth to mouth resuscitation. **EYE CONTACT:** Remove contact lenses (if wearing) and flush eyes with water for 15 minutes. Seek medical attention to check for possible irritation. **SKIN CONTACT:** Wash contact areas with mild non-abrasive soap and water. **INGESTION:** Do not induce vomiting. Dilute with water or milk. Immediately contact physician and obtain treatment.

SECTION 7 HANDLING, STORAGE AND USE PROCEDURES

NORMAL STORAGE AND HANDLING: Store under ordinary conditions. If stored outdoors, store so as to shed water. Protect from freezing. NORMAL USE: Use only as recommended. Avoid all contact of concentrate with eyes or prolonged contact with skin. Avoid wearing clothing soaked with fluid. Do not swallow. Practice good personal hygiene by washing hands several times each day Avoid prolonged inhalation of mist or vapors. Do not transfer to unlabeled containers. Do not reuse containers for other materials or purposes. FOR INDUSTRIAL USE ONLY. Not suitable for use in or around household or dwelling. All precautions detailed on the container label apply to partially full or empty containers. Do not cut, braze, weld, solder, or pressurize container as doing so may cause container to burst, potentially causing serious injury or death. Do not attempt to clean as redisue is difficult to remove. Containers should be disposed of in an environmentally safe manner and in accordance with applicable governmental regulations. STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS: Thoroughly flush with water to sewe TE DISPOSAL METHODS: FOR USED MIX: 1) Ultrafiltration for sewer disposal, or 2) recycle equipment for reuse, or 3) treat w polymer or inorganic deemulsifiers, then dispose of top layer by incineration or landfill, and dispose of water layer in sanitary sewer. FOR UNUSED CONCENTRATE: Incinerate, or contact vendor. Dispose of in accordance with applicable federal, state and local laws, regulations, rules, orders and ordinances.

SECTION 8 PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Product is not volatile. SKIN PROTECTION: Waterproof gloves required when handling concentrate. EYE PROTECTION: Safety shield or goggles required when handling concentrate. Always wear safety glasses while operating machinery VENTILATION-LOCAL: Normal MECHANICAL: No applicable information found. OTHER: No applicable information found. OTHER EQUIPMENT: Effective metalworking plant protective clothing as appropriate.

SECTION 9 FIRE AND EXPLOSION HAZARD DATA

FLASH POINT·····None. Self-extinguishing.
EXTINGUISHING MEDIA: No fire hazard.
UNUSUAL FIRE AND EXPLOSION HAZARDS: None

FLAMMABLE LIMITS··· LEL: UNKNOWN UEL: UNKNOWN
SPECIAL FIRE FIGHTING PROCEDURES: None

NOTICE

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THIS MSDS IS OFFERED SOLELY TO COMPLY WITH THE RULE AND IS NOT INTENDED TO CREATE ANY LIABILITY OF ANY KIND ON THE PART OF SUNNEN PRODUCTS COMPANY ("SUNNEN"). IN NO EVENT WILL SUNNEN BE RESPONSIBLE FOR ANY DEATH, INJUR OR DAMAGE OF ANY NATURE WHATSOEVER RESULTING FROM THE USE OF, RELIANCE U , OR MISUSE OF THE MSDS. NO REPRESENTATIONS OR WARRANTIES, WHETHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER NATURE, ARE MADE HEREUNDER. THIS MSDS IS NOT INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR EXTEND LICENSES UNDER VALID PATENTS.

THIS MSDS IS FURNISHED UPON THE EXPRESS CONDITION THAT ALL PERSONS RECEIVING IT WILL MAKE THEIR OWN DETERMINATION AS TO ITS SUITABILITY FOR THEIR PURPOSED PRIOR TO USE. RESPONSIBILITY FOR COMPLIANCE WITH APPLICABLE FEDERAL, STATE OR LOCAL REGULATIONS CONCERNING DISSEMINATION OF THE MSDS AND SALE AND USE OF THE MATERIAL TO WHICH IT REFERS RESTS SOLELY UPON THE PURCHASER.

SUNNEN

MATERIAL SAFETY DATA SHEET

HAZARD RATING	NFPA DESIGNATION 704	
4=Extreme		
3=High	- HEALTH	1 -
2=Moderate		
1=Slight	- FIRE	0 -
0=Insignificant		
	- REACTIVITY	0 -
	- SPECIFIC HAZARD	NONE -

MANUFACTURER'S NAME: SUNNEN PRODUCTS COMPANY
ADDRESS: 7910 Manchester Ave. St. Louis, Mo. 63143 United States of America

CONTACT: Terry Heller
EMERGENCY PHONE NO: 314-781-2105
APPROVED BY: Terry Heller
TITLE: Manager, Materials R/D
DATE: August 15, 198

TRADE NAME, COMMON NAME OR SPECIFICATION: Diamond Plated Guide Shoe with D or DX suffix (Example VB-BD or UA-B-7520DX). Single Stroke Honing Unit (Example A14A-4375) or Diamond Valve Seating Wheel (Example VS-2250-45-D5) or Diamond Honing Tool (Example VG-344-D5) or Super Mandrel with D or DX suffix (Example K6-185CSD or K6-189CSDX) or Diamond Dresser MAN-700. CHEMICAL FAMILY: METAL ALLOY. CLASSIFICATION: Machine, Machine Parts. D.O.T. SHIPPING CLASS: Class 85

SECTION 2 HAZARDOUS INGREDIENTS/IDENTITY (PER 29 C.F.R. 1910.1200(g))

COMMON NAME	CHEMICAL NAME OF COMPONENTS	CAS NO	OSHA PEL mg./cu. m.	ACGIH TLV-TWA mg./cu. m.	CARCINOGENIC
IRON	IRON	7439-89-6	10 as Iron Oxide fume	5.0 as Iron Oxide fume	N
NICKEL	NICKEL	7440-02-0	1.0	1.0	Y
DIAMOND	CARBON	7440-44-0	3.5 as Carbon Black	3.5 as Carbon Black	N
CBN	CUBIC BORON NITRIDE	NAIF	NAIF	NAIF	N
COBALT	COBALT	7440-48-4	0.1	.05	N (1)
PHOSPHOROUS	PHOSPHOROUS	7723-14-0	0.1	0.1	N
SULFUR	SULFUR	7704-34-9	13 as Sulfur Dioxide	5.0 as Sulfur Dioxide	N
COPPER	COPPER	7440-50-8	1.0 / 0.1 fume	1.0 / 0.2 fume	N
TIN	TIN	7440-31-5	2.0	2.0 / 2.0 fume	N
MANGANESE	MANGANESE	7439-96-5	5.0	5.0 / 1.0 fume	N
ALUMINUM	ALUMINUM	7429-90-5	NONE	10	N
SILICON	SILICON	7440-21-3	NONE	5 as respirable dust	N
ZINC	ZINC	7440-66-6	5.0 as Zinc Oxide fume	5.0 as Zinc Oxide fume	N
CHROMIUM	CHROMIUM	7440-47-3	1.0	0.5	N (1)

(1) CERTAIN COMPOUNDS OF COBALT AND CHROMIUM HAVE BEEN IDENTIFIED AS SUSPECT HUMAN CARCINOGENS BY I.A.R.C., N.T.P. ANNUAL REPORT.
NAIF= No applicable information found.
FOR FURTHER SAFETY AND HEALTH INFORMATION REGARDING THE COMPOSITION OF THIS MATERIAL CONTACT SUNNEN PRODUCTS, INDUSTRIAL SALES DEPARTMENT.

SECTION 3 PHYSICAL & CHEMICAL CHARACTERISTICS

SPECIFIC GRAVITY (WATER=1)--------7.0 (APPROX)
PERCENT VOLATILE BY WEIGHT--------NOT VOLATILE
VAPOR DENSITY (Air=1)-------------NOT VOLATILE
SOLUBILITY IN WATER---------------NOT SOLUBLE
APPEARANCE AND ODOR---------------SOLID METAL OBJECT
MELTING POINT---------------------->1700 F
VAPOR PRESSURE (mm Hg)------------NOT VOLATILE
EVAPORATION RATE ----------------NOT VOLATILE
REACTIVITY IN WATER---------------NOT REACTIVE

SECTION 4 SPECIAL PRECAUTIONS

HANDLING AND STORAGE: NONE Refer to Section 7.

SECTION 5 CORROSIVITY AND REACTIVITY DATA

STABILITY: Material is stable under normal conditions of transport and storage. POLYMERIZATION: Hazardous polymerization will not occur. INCOMPATIBILITY (MATERIALS TO AVOID): Concentrated acids such as nitric or hydrochloric. HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen gas. Toxic gases and vapors (such as nickel carbonyl and oxides of nitrogen) may be released in a fire involving nickel or in a decomposition of nickel compounds.

SECTION 6 HEALTH, FIRST AID AND MEDICAL DATA.

ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE

OPERATIONS SUCH AS ABRADING, MELTING, WELDING, CUTTING OR PROCESSING IN ANY OTHER FASHION MAY PRODUCE POTENTIALLY HAZARDOUS DUST OR FUMES WHICH CAN BE INHALED, SWALLOWED, OR COME IN CONTACT WITH THE SKIN OR EYES. Dust or fume may cause irritation to the eyes, nose, or throat; leave a metallic taste in the mouth; result in metal fume fever (flu-like symptoms). Symptoms may be aggravated for sensitive individuals with respiratory conditions (such as emphysema). Persons with light skin, sensitive skin or large amounts of body hair may experience skin disorders from contact with metal fines.

ABBREVIATIONS USED IN THE FOLLOWING SECTION: NAIF=NO APPLICABLE INFORMATION FOUND, SKIN=SKIN ABSORPTION, EYE=EYE CONTACT, INHAL=INHALATION, INGEST=INGESTION

ALUMINUM: ACUTE: SKIN: May cause skin irritation. EYE: Dust may cause swelling and injury to the eye. INHAL: Nuisance dust. INGEST: NAIF. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: May cause irritation of the mucous membranes of the upper respiratory system. INGEST: NAIF.

CARBON: ACUTE: SKIN: May cause irritation. EYE: May cause irritation and swelling. INHAL: May cause irritation to the nose or throat (Bronchitis). INGEST: NAIF. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: As graphite. May produce a progressive and disabling lung disease. Symptoms include headache, coughing, depression, decreased appetite, difficult breathing and the production of black sputum. Individuals may be free of symptoms for many years and then suddenly become disabled. INGEST: NAIF.

CHROMIUM: ACUTE: SKIN: Chromium compounds may cause dermatitis. EYE: May cause irritation. INHAL: Dusts of the metal may cause coughing and wheezing, headache, difficult breathing, fever and loss of weight. INGEST: Literature reports oral toxicity as LD Lo=71 mg/kg (Hamsters). CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: There are reports of a nodular ty breathing disease with impairment of lung function. Some insoluble chromium compounds are suspected carcinogens. INGEST: NAIF.

COBALT: ACUTE: SKIN: Cobalt can cause an allergy. Literature reports very small quantities have caused allergic sensitivity type dermatitis. Eruptions are usually located in the flexure creases of the elbow, knee, ankles, and neck. Cross sensitization can occur between cobalt and nickel and cobalt and chromium. EYE: May cause irritation. INHAL: Cobalt dust inhalation may cause an asthma-like disease characterized by coughing and difficult breathing. INGEST: Literature reports the oral toxicity to be LD Lo=1500 mg/kg (rats). Ingesting cobalt dust can cause vomiting and diarrhea. A sensation of hotness may occur after ingestion of excessive amounts. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: Inflammation of the lungs that may be reversible and abnormal tissue growth. INGEST: NAIF.

COPPER: ACUTE: SKIN: Changes causing hard or horny skin located on the hands and the soles of the feet has been reported. Copper salts may cause skin irritation (itching, redness and dermatitis). EYE: Copper salts may cause swelling, ulceration and cloudy cornea. INHAL: Melting, grinding, cutting of copper may produce fumes or dust exposure and breathing these fumes or dust may present health hazards. Fumes of copper may cause "Metal fume fever" with flu-like symptoms and skin and hair discoloration. Copper dust and fume may cause irritation of the upper respiratory tract, metallic taste in the mouth, and nausea. INGEST: Salts of copper act as irritants producing salivation, nausea, vomiting, stomach pain, bleeding stomach inflammation and diarrhea. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: Ulceration with perforation of the nasal septum. INGEST: Individuals with Wilson's disease (hepatolenticular degeneration) can experience fatal intoxication.

IRON: ACUTE: SKIN: NAIF. EYE: Dust may irritate eyes. INHAL: NAIF. INGEST: NAIF. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: The inhalation of iron oxide fumes or dust may cause an apparent benign lung disease which is called siderosis. This disease is reported not to be disabling, but makes x-ray diagnosis of other lung conditions difficult or impossible. INGEST: NAIF.

MANGANESE: ACUTE: SKIN: NAIF. EYE: May cause slight eye irritation. INHAL: Can cause bronchitis and inflammation of lung. Early symptoms of Manganese poisoning include lack of coordination, apathy, anorexia, headache and spasms. Freshly fumes can cause fever and chills similar to the flu. INGEST: Early symptoms of Manganese poisoning include lack of coordi apathy, anorexia, headache and spasms. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL/INGEST: Manganese poisoning is not fatal but may present a large range of nervous system disorders that vary among individuals. Advanced symptoms are similar to classical Parkinson's disease.

NICKEL: ACUTE: SKIN: NAIF. EYE: Causes eye irritation. INHAL: Nickel is an irritant to the mucous membrane of the upper respiratory tract. INGEST: Literature reports nickel soluble salts are quite toxic and if swallowed may cause giddiness and nausea. CHRONIC: SKIN: Skin sensitization resulting in chronic eczema "Nickel itch". EYE: NAIF. INHAL: Elemental nickel (as deposited from inhalation of nickel carbonyl) and nickel salts may cause cancer (producing an increased incidence of cancer of the lung and nasal passages). Effects on the heart muscle, brain, liver, and kidney have been seen in animal studies. INGEST: NAIF.

NFPA DESIGNATION 704

HAZARD RATING	- HEALTH	0 -
4=Extreme		
3=High	- FIRE	1 -
2=Moderate		
1=Slight	- REACTIVITY	0 -
0=Insignificant		
	- SPECIFIC HAZARD	NONE -

SUNNEN

MATERIAL SAFETY DATA SHEET

SECTION 1 NAME AND PRODUCT

MANUFACTURER'S NAME: SUNNEN PRODUCTS COMPANY
ADDRESS: 7910 Manchester Ave.
St. Louis, Mo. 63143
United States of America

CONTACT: Terry Heller
EMERGENCY PHONE NO: 314-781-2105
APPROVED BY: Terry Heller
TITLE: Manager, Materials R/D
DATE: August 15, 1987

TRADE NAME, COMMON NAME OR SPECIFICATION: VGS20522 GEAR OIL

CHEMICAL FAMILY: PETROLEUM HYDROCARBONS AND ADDITIVES. CLASSIFICATION: PETROLEUM OIL N.O.S.
D.O.T. SHIPPING CLASS: COMBUSTIBLE LIQUID. IDENTIFICATION NUMBER: UN1270

SECTION 2 HAZARDOUS INGREDIENTS/IDENTITY (PER 29 C.F.R. 1910.1200(g))

COMMON NAME	CHEMICAL NAME OF COMPONENTS	CAS NO	Wt.%	OSHA PEL mg./cu. m.	ACGIH TLV-TWA mg./cu. m.	CARCINOGENIC
MINERAL OIL	REFINED MINERAL OIL	64742-54-7	Unknown	5 (mist)	5 (mist)	N
MINERAL OIL	REFINED MINERAL OIL	64742-65-0	Unknown	5 (mist)	5 (mist)	N
ADDITIVES	Unknown	Unknown	< 3	NOT ESTABLISHED	NOT ESTABLISHED	N

FOR FURTHER SAFETY AND HEALTH INFORMATION REGARDING THE COMPOSITION OF THIS MATERIAL CONTACT SUNNEN PRODUCTS, INDUSTRIAL SALES DEPARTMENT.

SECTION 3 PHYSICAL & CHEMICAL CHARACTERISTICS

SPECIFIC GRAVITY (WATER=1)---------.896
PERCENT VOLATILE BY WEIGHT---------<1%
BOILING POINT----------UNKNOWN
VAPOR PRESSURE (mm Hg)----------<.1mm Hg @ 77 F (25 C)
VAPOR DENSITY (Air=1)----------UNKNOWN
EVAPORATION RATE ----------NEGLIGIBLE
SOLUBILITY IN WATER----------NEGLIGIBLE. MATERIAL IS COMPLETELY SOLUBLE IN COMMON HYDROCARBON OR CHLORINATED HYDROCARBON SOLVENTS SUCH AS MINERAL SPIRITS OR TRICHLOROETHANE.
REACTIVITY IN WATER----------NOT REACTIVE
APPEARANCE AND ODOR----------AMBER LIQUID.

SECTION 4 SPECIAL PRECAUTIONS

HANDLING AND STORAGE: NONE Refer to Section 7

SECTION 5 CORROSIVITY AND REACTIVITY DATA

STABILITY: MATERIAL IS STABLE UNDER NORMAL CONDITIONS OF TRANSPORT AND STORAGE.
POLYMERIZATION: HAZARDOUS POLYMERIZATION WILL NOT OCCUR.
INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDATION AGENTS.
HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF CARBON, NITROGEN AND SULFUR FROM COMBUSTION.

SECTION 6 HEALTH, FIRST AID AND MEDICAL DATA

ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE

PRIMARY ROUTE(S) OF ENTRY ARE: INGESTION, INHALATION AND SKIN ABSORPTION. ABBREVIATIONS USED IN THE FOLLOWING SECTION. SKIN=SKIN CONTACT. EYE=EYE CONTACT. INHAL=INHALATION. INGEST=INGESTION.

MINERAL OIL: ACUTE: SKIN: May cause irritation. Predisposing factors: Individuals with sensitive skin or large amounts of body hair. Material is not sterile and may infect open cuts or sores. EYE: May cause irritation. INHAL: Coughing, sore throat, headache, chest pain and difficult breathing. Predisposing factors: Individuals with pre-existing respiratory impairments (such as emphyzema) can display increased sensitivity to oil mist or vapors. INGEST: Loose bowel movements. Minute amounts of mineral oil aspirated into the lungs during ingestion may cause mild to severe lung injury. **CHRONIC:** SKIN: Prolonged or repeated skin contact can cause skin irritation or oil acne: inflammation and blackheads due to mechanical blockage of the pores. Material is potentially a skin sensitizer. Individuals can experience skin irritation after prolonged exposure. EYE: None known. INHAL: None known. INGEST: None known.

EMERGENCY FIRST AID

INHALATION: Remove to fresh air. If not breathing, begin mouth to mouth resuscitation. Seek medical attention. **EYE CONTACT:** Remove contact lenses (if wearing) and flush eyes with water for 15 minutes. Seek medical attention to check for possible irritation. **SKIN CONTACT:** Wash hands with mild non-abrasive soap and water. **INGESTION:** Seek medi attention.

SECTION 7 HANDLING, STORAGE AND USE PROCEDURES

NORMAL STORAGE AND HANDLING: Store away from heat or flame. If stored outdoors, store so as to shed water.
NORMAL USE: May cause skin irritation and/or defat the skin on prolonged or repeated contact. Practice good personal hygiene by washing hands several times each day. Launder contaminated clothing before reuse. Avoid wearing clothing soaked with fluid. Avoid prolonged inhalation of mist or vapors. Do not transfer to unlabeled containers. Do not reuse containers for other materials or purposes. Do not cut, braze, weld, solder, or pressurize container as doing so may cause container to EXPLODE, potentially causing serious injury or DEATH. FOR INDUSTRIAL USE ONLY. Not suitable for use in or around household or dwelling. All precautions detailed on the container label apply to partially full or empty containers. Do not attempt to clean as residue is difficult to remove. Containers should be disposed of in an environmentally safe manner and in accordance with applicable governmental regulations.
STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS: Absorb on fire retardant absorbant. Gather and dispose of in accordance with applicable regulations. Notify Coast Guard if spill could reach any waterway (1-800-424-8802).
WASTE DISPOSAL METHODS: Dispose of in accordance with applicable federal, state and local laws, regulations, rules, orders and ordinances.

SECTION 8 PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: If use conditions give rise to excessive mist (greater than 5 mg/cu M) use a NIOSH approved respirator rated for mineral oil mist or forced ventilation to reduce mist exposure to well below TLV levels.
VENTILATION-LOCAL: Normal. MECHANICAL: Required if use conditions give rise to levels greater than 5 mg/cu M.
OTHER: No applicable information found.
SKIN PROTECTION: Protective gloves (Neoprene or Plastic) should be used. Do not wear oil soaked clothing.
EYE PROTECTION: Always wear NIOSH approved eye protection when working around or operating machinery.
OTHER EQUIPMENT: Oil-impervious apron if desired.
MEASURES TO BE TAKEN DURING REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT THAT HAS BEEN IN CONTACT WITH THIS MATERIAL: Same -- for petroleum lubricating oil. Remove traces of material if soldering, welding, brazing, cutting or other process involving ignition sources to prevent a fire hazard.

SECTION 9 FIRE AND EXPLOSION HAZARD DATA

FLASH POINT--------475 F (246 C) C.O.C.
FLAMMABLE LIMITS--- LEL: Unknown UEL: Unknown
EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.
SPECIAL FIRE FIGHTING PROCEDURES: For fires in enclosed areas, firefighters must use self-contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Sealed containers may explode if exposed to extreme heat.

NFPA DESIGNATION 704

HAZARD RATING	- HEALTH	1 -
4=Extreme		
3=High	- FIRE	3 -
2=Moderate		
1=Slight	- REACTIVITY	0 -
0=Insignificant		
	- SPECIFIC HAZARD	NONE -

SUNNEN

MATERIAL SAFETY DATA SHEET

SECTION 1 NAME AND PRODUCT

MANUFACTURER'S NAME: SUNNEN PRODUCTS COMPANY
ADDRESS: 7910 Manchester Ave.
St. Louis, Mo. 63143
United States of America

CONTACT: Terry Heller
EMERGENCY PHONE NO: 314-781-2105
APPROVED BY: Terry Heller
TITLE: Manager, Materials R/D
DATE: August 15, 1987

TRADE NAME, COMMON NAME OR SPECIFICATION: **VS-200 VALVE SEAT MARKER**
CHEMICAL FAMILY: SPECIALTY LACQUER. CLASSIFICATION:(D.O.T.) PAINT. D.O.T. SHIPPING CLASS: FLAMMABLE LIQUID I.D. Number:UN-1263

SECTION 2 HAZARDOUS INGREDIENTS/IDENTITY (PER 29 C.F.R. 1910.1200(g))

COMMON NAME	CHEMICAL NAME OF COMPONENTS	CAS NO	WT %	OSHA PEL mg/cu m	ACGIH TLV-TWA mg/cu m	CARCINOGENIC
DYES	DYES (METHYL VIOLET)	8004-87-3	1	NONE	NONE	N
SOLVENTS	BUTYL ACETATE	123-86-4	33	150 PPM	150 PPM	N
SOLVENTS	DENATURED ALCOHOL	64-17-5	57	1000 PPM	1000 PPM	N
SOLVENTS	BUTYL ALCOHOL	71-36-3	4	100 PPM	50 PPM SKIN (Ceiling Limit)	N
VEHICLE	WET NITROCELLULOSE	9004-67-63.0	5	NONE	NONE	N

PPM=Parts per Million

FOR FURTHER SAFETY AND HEALTH INFORMATION REGARDING THE COMPOSITION OF THIS MATERIAL CONTACT SUNNEN PRODUCTS, INDUSTRIAL SALES DEPARTMENT.

SECTION 3 PHYSICAL & CHEMICAL CHARACTERISTICS

SPECIFIC GRAVITY (WATER=1)-------- .86
BOILING POINT---------- 160 F (71 C)
PERCENT VOLATILE BY WEIGHT-------- 90%
VAPOR PRESSURE (mm Hg)---------- 36 mm Hg @ 68 F (20C)
VAPOR DENSITY (Air=1)---------- Heavier than air.
EVAPORATION RATE ---------- Solvent Component: faster than butyl acetate.
Note: Residual marking substances are non-volatile.
SOLUBILITY IN WATER---------- Appreciable
REACTIVITY IN WATER---------- Not reactive
APPEARANCE AND ODOR---------- Intense blue color. Mild odor.

SECTION 4 SPECIAL PRECAUTIONS

HANDLING AND STORAGE: DO NOT STORE NEAR FIRE OR FLAME.
OTHER: DO NOT SMOKE WHEN FUMES ARE PRESENT. USE WITH POSITIVE VENTILATION.

SECTION 5 CORROSIVITY AND REACTIVITY DATA

STABILITY: MATERIAL IS STABLE.
POLYMERIZATION: HAZARDOUS POLYMERIZATION WILL NOT OCCUR.
INCOMPATIBILITY (materials to avoid): STRONG OXIDIZING MATERIALS SUCH AS CHLORINE.
DECOMPOSITION PRODUCTS: COMBUSTION OF MATERIAL WILL PRODUCE OXIDES OF CARBON.

SECTION 6 HEALTH, FIRST AID AND MEDICAL DATA

ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE

PRIMARY ROUTE(S) OF ENTRY ARE INHALATION, INGESTION AND SKIN CONTACT. ABBREVIATIONS USED IN THE FOLLOWING SECTION: NAIF=NO APPLICABLE INFORMATION FOUND, SKIN=SKIN ABSORPTION, EYE=EYE CONTACT, INHAL=INHALATION, INGEST=INGESTION

ACETIC ACID, BUTYL ESTER (N-BUTYL ACETATE): ACUTE: SKIN: Causes irritation of skin. Nonspecific drying, cracking and increased susceptibility to infection. EYE: Causes eye irritation. INHAL: Causes irritation of upper respiratory system. Headache, drowsiness and drunkenness at high concentration. Affects central nervous system. INGEST: NAIF. **CHRONIC:** SKIN: NAIF. EYE: NAIF. INHAL: Kidney and blood changes in experimental animals. Affects lungs, thorax and breathing. INGEST: NAIF.

BUTYL ALCOHOL (N-BUTANOL): ACUTE: SKIN: Causes skin irritation and dermatitis. EYE: Causes irritation inflammation. INHAL: Irritates the nose and eyes. Affects lungs, thorax and breathing. INGEST: Expected to be non-toxic on literature reports that the LD50=790 mg/kg (rats). **CHRONIC:** SKIN: NAIF. EYE: NAIF. INHAL: NAIF. INGEST: NAIF.

ETHYL ALCOHOL: ACUTE: SKIN: May cause drying and irritation. Literature reports the Skin irritation to be 500 mg Severe (Rabbits). EYE: May cause eye irritation. Literature reports the Eye irritation (Rabbits) to be 100 mg- Severe. INHAL: May produce headache, drowsiness, tremors, and fatigue. Literature reports the Inhalation Toxicity to be (Rats) LC50=20000 PPM INGEST: Denaturants produce strange symptoms beyond intoxication. May act as an adjuvant increasing toxicity of other agents. Literature reports the Toxicity oral (Rats) LD50=7060 mg/kg. **CHRONIC:** SKIN: NAIF. EYE: NAIF. INHAL: NAIF. INGEST: NAIF.

EMERGENCY FIRST AID

INHALATION: Remove to fresh air. If not breathing, begin mouth to mouth resuscitation. Seek medical attention. **EYE CONTACT:** Remove contact lenses (if wearing) and flush eyes with water to remove particulates. Seek medical attention to check for possible irritation. **SKIN CONTACT:** Brush off excess dust. Wash hands with mild non-abrasive soap and water. **INGESTION:** Seek medical attention.

SECTION 7 HANDLING, STORAGE AND USE PROCEDURES

NORMAL STORAGE AND HANDLING: STORE IN WELL VENTILATED AREAS AWAY FROM SOURCES OF IGNITION AS DAMAGED OR LEAKING CANS WILL RELEASE SOLVENT WHICH IS HIGHLY FLAMMABLE, HEAVIER THAN AIR AND MAY TRAVEL LONG DISTANCES TO A SOURCE OF IGNITION AND FLASH BACK CAUSING THE CONTAINER TO BURN OR EXPLODE. KEEP OUT OF THE REACH OF CHILDREN.
NORMAL USE: USE ONLY WITH ADEQUATE VENTILATION.
STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS: VENTILATE AREA. WEAR PERSONAL PROTECTIVE EQUIPMENT. REMOVE HEAT AND IGNITION SOURCES. ABSORB IN WASTE MATERIAL THAT CAN BE BURNED.
WASTE DISPOSAL METHODS: INCINERATE OR NORMAL DISPOSAL FOR FLAMMABLES. DISPOSE OF IN ACCORDANCE WITH APPLICABLE FEDERAL STATE AND LOCAL LAWS, REGULATIONS, RULES, ORDERS AND ORDINANCES.

SECTION 8 PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: IF TLV IS EXCEEDED OR FOR SYMPTOMS OF OVER EXPOSURE, WEAR NIOSH APPROVED ORGANIC VAPOR RESPIRATOR.
VENTILATION: ENSURE FRESH AIR ENTRY DURING USE. IF TLV LEVELS ARE APPROACHED OR ANY DISCOMFORT IS EXPERIENCED PROVIDE POSITIVE MECHANICAL VENTILATION.
PROTECTIVE GLOVES: IF PREFERRED OR IF SENSITIVITY TO MATERIAL HAS BEEN DEMONSTRATED.
EYE PROTECTION: ALWAYS WEAR SAFETY GLASSES WHEN WORKING ON OR AROUND MACHINERY.

NFPA DESIGNATION 704

HAZARD RATING		
4=Extreme	· HEALTH	1 ·
3=High	· FIRE	1 ·
2=Moderate	· REACTIVITY	0 ·
1=Slight	· SPECIFIC HAZARD	NONE ·
0=Insignificant		

SUNNEN

MATERIAL SAFETY DATA SHEET

SECTION 1 NAME AND PRODUCT

MANUFACTURER'S NAME: SUNNEN PRODUCTS COMPANY
ADDRESS: 7910 Manchester Ave.
St. Louis, Mo. 63143
United States of America

CONTACT: Terry Heller
EMERGENCY PHONE NO: 314-781-2105
APPROVED BY: Terry Heller
TITLE: Manager, Materials R/D
DATE: August 15, 1987

TRADE NAME, COMMON NAME OR SPECIFICATION: **PM-2653 LUBRICATING OIL**

CHEMICAL FAMILY: PETROLEUM HYDROCARBONS AND ADDITIVES. CLASSIFICATION: PETROLEUM OIL N.O.S.
D.O.T. SHIPPING CLASS: COMBUSTIBLE LIQUID. IDENTIFICATION NUMBER: NA1270

SECTION 2 HAZARDOUS INGREDIENTS/IDENTITY (PER 29 C.F.R. 1910.1200(g))

COMMON NAME	CHEMICAL NAME OF COMPONENTS	CAS NO	OSHA PEL mg/cu m	ACGIH TLV-TWA mg/cu m	CARCINOGENIC
OIL	PETROLEUM DISTILLATE, SEVERELY HYDROTREATED HEAVY NAPHTHENIC	64742-52-5	5 (mist)	5 (mist)	N

FOR FURTHER SAFETY AND HEALTH INFORMATION REGARDING THE COMPOSITION OF THIS MATERIAL CONTACT SUNNEN PRODUCTS, INDUSTRIAL SALES DEPARTMENT.

SECTION 3 PHYSICAL & CHEMICAL CHARACTERISTICS

SPECIFIC GRAVITY (WATER=1)--------.89
PERCENT VOLATILE BY WEIGHT--------<1%
BOILING POINT----------->550 F (285 C)
VAPOR PRESSURE (mm Hg)----------<.01mm Hg @ 68 F (20 C)
VAPOR DENSITY (Air=1)---------->5
EVAPORATION RATE ----------NEGLIGIBLE
SOLUBILITY IN WATER----------NEGLIGIBLE. MATERIAL IS COMPLETELY SOLUBLE IN COMMON HYDROCARBON OR CHLORINATED HYDROCARBON SOLVENTS SUCH AS MINERAL SPIRITS OR TRICHLOROETHANE.
REACTIVITY IN WATER----------NOT REACTIVE
APPEARANCE AND ODOR----------TRANSPARENT AMBER LIQUID WITH MINERAL OIL ODOR.

SECTION 4 SPECIAL PRECAUTIONS

HANDLING AND STORAGE: NONE. Refer to section 7.

SECTION 5 CORROSIVITY AND REACTIVITY DATA

STABILITY: MATERIAL IS STABLE UNDER NORMAL CONDITIONS OF TRANSPORT AND STORAGE.
POLYMERIZATION: HAZARDOUS POLYMERIZATION WILL NOT OCCUR.
INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDATION AGENTS SUCH AS FUMING NITRIC ACID OR LIQUID CHLORINE.
CONDITIONS TO BE AVOIDED: OXIDIZING CONDITIONS.
HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF SULFUR, CARBON MONOXIDE AND CARBON DIOXIDE AS PRODUCTS OF COMBUSTION.

SECTION 6 HEALTH, FIRST AID AND MEDICAL DATA

PRIMARY ROUTE(S) OF ENTRY ARE: INGESTION, INHALATION AND SKIN ABSORPTION. ABBREVIATIONS USED IN THE FOLLOWING SECTION. SKIN=SKIN CONTACT. EYE=EYE CONTACT. INHAL=INHALATION. INGEST=INGESTION.

MINERAL OIL: ACUTE: SKIN: May cause irritation. Predisposing factors: Individuals with sensitive skin or large amounts of body hair. Material is not sterile and may infect open cuts or sores. EYE: May cause irritation. INHAL: Coughing, sore throat, headache, chest pain and difficult breathing. Predisposing factors: Individuals with pre-existing respiratory impairments (such as emphyzema) can display increased sensitivity to oil mist or vapors. INGEST: Loose bowel movements. Minute amounts of mineral oil aspirated into the lungs during ingestion may cause mild to severe lung injury.
CHRONIC: SKIN: Prolonged or repeated skin contact can cause skin irritation or oil acne: redness and blackheads due to mechanical blockage of the pores. Material is potentially a skin sensitizer. Individuals can experience skin irritation after prolonged exposure. EYE: None known. INHAL: None known. INGEST: None known.

EMERGENCY FIRST AID

INHALATION: Remove from further exposure. If unconsciousness occurs, seek immediate medical assistance and call a physician. If breathing has stopped, begin mouth to mouth resuscitation. **EYE CONTACT:** Remove contact lenses (if wearing) and flush eyes with water for 15 minutes. Seek medical attention to check for possible irritation.
SKIN CONTACT: Wash contact areas with mild non-abrasive soap and water. If injected under the skin, regardless of the appearance or its size, contact a physician IMMEDIATELY. Delay may cause loss of affected part of the body.
INGESTION: Get medical assistance. Do not induce vomiting.

SECTION 7 HANDLING, STORAGE AND USE PROCEDURES

NORMAL STORAGE AND HANDLING: Store away from heat or flame. If stored outdoors, store so as to shed water.

NORMAL USE: May cause skin irritation and/or defat the skin on prolonged or repeated contact. Practice good personal hygiene by washing hands several times each day. Launder contaminated clothing before reuse. Avoid wearing clothing soaked with fluid. Avoid prolonged inhalation of mist or vapors. Do not transfer to unlabeled containers. Do not reuse containers for other materials or purposes. Do not cut, braze, weld, solder, or pressurize container as doing so may cause container to EXPLODE, potentially causing serious injury or DEATH. FOR INDUSTRIAL USE ONLY. Not suitable for use in or around household or dwelling. All precautions detailed on the container label apply to partially full or empty containers. Do not attempt to clean as residue is difficult to remove. Empty containers should be disposed of in an environmentally safe manner and in accordance with applicable governmental regulations.

STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS: Absorb on fire retardant absorbant. Gather and dispose of in accordance with applicable regulations. Notify Coast Guard if spill could reach any waterway (1-800-424-8802).

WASTE DISPOSAL METHODS: Dispose of in accordance with applicable federal, state and local laws, regulations, rules, orders and ordinances.

SECTION 8 PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: If use conditions give rise to excessive mist (greater than 5 mg/cu M) use an approved respirator rated for mineral oil mist or forced ventilation to reduce mist exposure to well below TLV levels.

VENTILATION-LOCAL: Normal. MECHANICAL: Required if use conditions give rise to levels greater than 5 mg/cu M.
OTHER: No applicable information found.

SKIN PROTECTION: No special equipment required. However, good personal hygiene practices should always be followed. Do not wear oil soaked clothing.

EYE PROTECTION: Always wear NIOSH approved eye protection when working around or operating machinery.

OTHER EQUIPMENT: Oil-impervious apron if desired.

MEASURES TO BE TAKEN DURING REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT THAT HAS BEEN IN CONTACT WITH THIS MATERIAL: Same as for petroleum lubricating oil. Remove traces of material if soldering, welding, brazing, cutting or other process involving ignition sources to prevent a fire hazard.

NFPA DESIGNATION 704

HAZARD RATING	- HEALTH	0 -
4=Extreme		
3=High	- FIRE	1 -
2=Moderate		
1=Slight	- REACTIVITY	0 -
0=Insignificant		
	- SPECIFIC HAZARD	NONE -

SUNNEN

MATERIAL SAFETY DATA SHEET

SECTION 1 NAME AND PRODUCT

MANUFACTURER'S NAME:	SUNNEN PRODUCTS COMPANY	CONTACT:	Terry Heller
ADDRESS:	7910 Manchester Ave.	EMERGENCY PHONE NO:	314-781-2105
	St. Louis, Mo. 63143	APPROVED BY:	Terry Heller
	United States of America	TITLE:	Manager, Materials R/D
		DATE:	August 15, 1987

TRADE NAME, COMMON NAME OR SPECIFICATION: **AN-30 Silicon Compound**

CHEMICAL FAMILY: MIXTURE. CLASSIFICATION: NOT APPLICABLE. D.O.T. SHIPPING CLASS: NOT APPLICABLE.

SECTION 2 HAZARDOUS INGREDIENTS/IDENTITY (PER 29 C.F.R. 1910.1200(g))

COMMON NAME	CHEMICAL NAME OF COMPONENTS	CAS NO	Wt.%	OSHA PEL mg./cu. m.	ACGIH TLV-TWA mg./cu. m.	CARCINOGENIC
OIL	PETROLEUM DISTILLATE, SEVERELY HYDROTREATED AND/OR SEVERELY SOLVENT REFINED	UNKNOWN	32	5 (mist)	5 (mist)	N
SILICON	SILICON	7440-21-3	50	None	10 as Nuisance Dust	N
STEARIC ACID	CALCIUM STEARATE	1592-23-0	18	None	10 as Nuisance Dust	N

FOR FURTHER SAFETY AND HEALTH INFORMATION REGARDING THE COMPOSITION OF THIS MATERIAL CONTACT SUNNEN PRODUCTS, INDUSTRIAL SALES DEPARTMENT.

SECTION 3 PHYSICAL & CHEMICAL CHARACTERISTICS

SPECIFIC GRAVITY (WATER=1)--------UNKNOWN
PERCENT VOLATILE BY WEIGHT--------<1%
BOILING POINT----------->600 F (316 C)
VAPOR PRESSURE (mm Hg)----------<.1mm Hg @ 68 F (20 C)
VAPOR DENSITY (Air=1)----------UNKNOWN
EVAPORATION RATE ----------NEGLIGIBLE
SOLUBILITY IN WATER----------NEGLIGIBLE. OIL AND STEARIC ACID ARE COMPLETELY SOLUBLE IN COMMON HYDROCARBON OR CHLORINATED HYDROCARBON SOLVENTS SUCH AS MINERAL SPIRITS OR TRICHLOROETHANE.
REACTIVITY IN WATER----------NOT REACTIVE
APPEARANCE AND ODOR----------BLACK PASTE

SECTION 4 SPECIAL PRECAUTIONS

HANDLING AND STORAGE: NONE Refer to section 7.

SECTION 5 CORROSIVITY AND REACTIVITY DATA

STABILITY: Material is stable under normal conditions of transport and storage. POLYMERIZATION: Hazardous polymerization will not occur. INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidation agents such as fuming nitric acid. CONDITIONS TO BE AVOIDED: oxidizing conditions. HAZARDOUS DECOMPOSITION PRODUCTS: carbon monoxide, carbon dioxide and calcium oxide as products of combustion.

SECTION 6 HEALTH, FIRST AID AND MEDICAL DATA

ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE. PRIMARY ROUTE(S) OF ENTRY ARE: INGESTION, INHALATION AND SKIN ABSORPTION. ABBREVIATIONS USED IN THE FOLLOWING SECTION: NAIF=NO APPLICABLE INFORMATION FOUND, SKIN=SKIN ABSORPTION, EYE=EYE CONTACT, INHAL=INHALATION, INGEST=INGESTION

CALCIUM STEARATE: ACUTE: SKIN: NAIF. EYE: May cause mechanical irritation. INHAL: Excessive inhalation of dust may cause coughing and difficult breathing and inflammation of the lungs. INGESTION: NAIF. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: Grossly excessive and chronic inhalation of the dust may cause a progressive lung disease. INGEST: NAIF.

MINERAL OIL: ACUTE: SKIN: May cause irritation. Predisposing factors: Individuals with sensitive skin or large amounts of body hair. Material is not sterile and may infect open cuts or sores. EYE: May cause irritation. INHAL: Coughing, sore throat, headache, chest pain and difficult breathing. Predisposing factors: Individuals with pre-existing respiratory impairments (such as emphysema) can display increased sensitivity to oil mist or vapors. INGEST: Loose bowel movements. Minute amounts of mineral oil aspirated into the lungs during ingestion may cause mild to severe lung injury. CHRONIC: SKIN: Prolonged or repeated skin contact can cause skin irritation or oil acne: redness and blackheads due to mechanical blockage of the pores. Material is potentially a skin sensitizer. Individuals can experience skin irritation after prolonged exposure. EYE: NAIF. INHAL: NAIF. INGEST: NAIF.

SILICON: ACUTE: SKIN: Physical damage to the skin caused by dust or by cleaning procedures used to remove it. EYE: Dust may irritate eyes. INHAL: Dust may cause physical damage to the mucous membranes or nasal passages. INGEST: NAIF CHRON. SKIN: NAIF. EYE: NAIF. INHAL: May produce x-ray changes in the lungs without disability. INGEST: NAIF.

EMERGENCY FIRST AID

INHALATION: Remove from further exposure. If unconsciousness occurs, seek immediate medical assistance and call a physician. If breathing has stopped, begin mouth to mouth resuscitation. **EYE CONTACT:** Remove contact lenses (if wearing) and flush eyes with water for 15 minutes. Seek medical attention to check for possible irritation. **SKIN CONTACT:** Wash contact areas with mild non-abrasive soap and water. **INGESTION:** Get medical assistance.

SECTION 7 HANDLING, STORAGE AND USE PROCEDURES

NORMAL STORAGE AND HANDLING: Store away from heat or flame. If stored outdoors, store so as to shed water.
NORMAL USE: May cause skin irritation and/or defat the skin on prolonged or repeated contact. Practice good personal hygiene by washing hands several times each day. Launder contaminated clothing before reuse. Avoid wearing clothing soaked with fluid. Avoid prolonged inhalation of mist or vapors. Do not transfer to unlabeled containers. FOR INDUSTRIAL USE ONLY. Not suitable for use in or around household or dwelling. Do not reuse containers for other materials or purposes. All precautions detailed on the container label apply to partially full or empty containers. Do not attempt to clean as residue is difficult to remove. Containers should be disposed of in an environmentally safe manner and in accordance with applicable governmental regulations. STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS: Absorb on fire retardent absorbent. Gather and dispose of in accordance with applicable regulations. WASTE DISPOSAL METHODS: AN-30 Silicon Compound and the used Felt Set contain mineral oil, a hazardous waste. Dispose of the used Felt Set and Silicon Compound in accordance with applicable federal, state and local laws, regulations, rules, orders and ordinances.

SECTION 8 PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: If use conditions give rise to excessive mist (greater than 5 mg/cu M) use a NIOSH approved respirator rated for mineral oil mist or forced ventilation to reduce mist exposure below TLV levels.

VENTILATION-LOCAL: Normal. MECHANICAL: Required if use conditions give rise to levels greater than 5 mg/cu M.
OTHER: No applicable information found.

SKIN PROTECTION: No special equipment required. However, good personal hygiene practices should always be followed. Do not wear oil soaked clothing.

EYE PROTECTION: Use chemical safety goggles. Contact lenses should not be worn when working with this material.

OTHER EQUIPMENT: Oil-impervious apron if desired.

NFPA DESIGNATION 704

HAZARD RATING		
4=Extreme		
3=High	- HEALTH	0 -
2=Moderate		
1=Slight	- FIRE	2 -
0=Insignificant		
	- REACTIVITY	0 -
	- SPECIFIC HAZARD	NONE -

SUNNEN

MATERIAL SAFETY DATA SHEET

SECTION 1 NAME AND PRODUCT

MANUFACTURER'S NAME: SUNNEN PRODUCTS COMPANY
ADDRESS: 7910 Manchester Ave.
St. Louis, Mo. 63143
United States of America

CONTACT: Terry Heller
EMERGENCY PHONE NO: 314-781-2105
APPROVED BY: Terry Heller
TITLE: Manager, Materials R/D
DATE: August 15, 1987

TRADE NAME, COMMON NAME OR SPECIFICATION: PG-991 Anti-Rust Compound

CHEMICAL FAMILY: Mixture of hydrocarbons refined from petroleum.
CLASSIFICATION: NOT APPLICABLE
D.O.T. SHIPPING CLASS: NOT APPLICABLE

SECTION 2 HAZARDOUS INGREDIENTS/IDENTITY (PER 29 C.F.R. 1910.1200(g))

COMMON NAME	CHEMICAL NAME OF COMPONENTS	CAS NO	Wt.%	OSHA PEL mg./cu. m.	ACGIH TLV-TWA mg./cu. m.	CARCINOGENIC
GREASE	REFINED PETROLEUM	8009-03-8	90	5 (mist)	5 (mist)	N
CAMPHOR	CAMPHOR	76-22-2	10	2	12	N

FOR FURTHER SAFETY AND HEALTH INFORMATION REGARDING THE COMPOSITION OF THIS MATERIAL CONTACT SUNNEN PRODUCTS, INDUSTRIAL SALES DEPARTMENT.

SECTION 3 PHYSICAL & CHEMICAL CHARACTERISTICS

SPECIFIC GRAVITY (WATER=1)--------.84 (APPROX.)
PERCENT VOLATILE BY WEIGHT--------<10%
MELTING POINT----------120 F (49 C) APPROX.
VAPOR PRESSURE (mm Hg)----------Unknown
VAPOR DENSITY (Air=1)----------Unknown

EVAPORATION RATE ----------NEGLIGIBLE
SOLUBILITY IN WATER----------NEGLIGIBLE
REACTIVITY IN WATER----------NOT REACTIVE
APPEARANCE AND ODOR----------SEMI-SOLID WHITE GREASE

SECTION 4 SPECIAL PRECAUTIONS

HANDLING AND STORAGE: NONE Refer to Section 7

SECTION 5 CORROSIVITY AND REACTIVITY DATA

STABILITY: MATERIAL IS STABLE UNDER NORMAL CONDITIONS OF TRANSPORT AND STORAGE.
POLYMERIZATION: HAZARDOUS POLYMERIZATION WILL NOT OCCUR.
INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDATION AGENTS.
HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE FROM COMBUSTION.

SECTION 6 HEALTH, FIRST AID AND MEDICAL DATA

ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE. PRIMARY ROUTE(S) OF ENTRY ARE: INGESTION, INHALATION AND SKIN ABSORPTION. ABBREVIATIONS USED IN THE FOLLOWING SECTION: NAIF=NO APPLICABLE INFORMATION FOUND, SKIN=SKIN ABSORPTION, EYE=EYE CONTACT, INHAL=INHALATION, INGEST=INGESTION

CAMPHOR: ACUTE: SKIN: May cause skin irritation. EYE: May cause eye irritation. INHAL: Irritates mucous membranes. Affects central nervous system causing nausea, vomiting, diarrhea, headaches, dizziness, excitement, irrational behavior and convulsions. INGEST: Irritates mucous membranes. Affects central nervous system causing nausea, vomiting, diarrhea, headaches, dizziness, excitement, irrational behavior and convulsions. CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: NAIF. INGEST: NAIF.

PETROLEUM GREASE: Fully refined materials meeting the requirements of the United States Pharmacopeia XXI and the requirements of the Food and Drug Administration as per Title 21 parts 172.880 and 178.3700. ACUTE: SKIN: Prolonged repeated contact can cause skin irritation or oil acne due to the mechanical blockage of the skin pores. Predisposing factors: Usually individuals with sensitive skin or large amounts of body hair. EYE: May cause eye irritation. INHAL: None known. INGEST: None known. CHRONIC SKIN: NAIF. EYE: NAIF. INHAL: NAIF. INGEST: NAIF.

EMERGENCY FIRST AID

INHALATION: Remove to fresh air. If not breathing, begin mouth to mouth resuscitation. Seek medical attention.
EYE CONTACT: Remove contact lenses (if wearing) and flush eyes with water for 15 minutes. Seek medical attention to check for possible irritation. **SKIN CONTACT:** Wash hands with mild non-abrasive soap and water. **INGESTION:** Seek medical attention.

SECTION 7 HANDLING, STORAGE AND USE PROCEDURES

NORMAL STORAGE AND HANDLING: Store away from heat or flame. Maximum storage temperature 250 F (120 C).
NORMAL USE: May cause skin irritation and/or defat the skin on prolonged or repeated contact. Practice good personal hygiene by washing hands several times each day. Launder contaminated clothing before reuse. Avoid wearing clothing soaked with fluid. Avoid prolonged inhalation of mist or vapors. Do not transfer to unlabeled containers. FOR INDUSTRIAL USE ONLY. Not suitable for use in or around household or dwelling. Containers should be disposed of in an environmentally safe manner and in accordance with applicable governmental regulations.
STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS: Absorb on fire retardant absorbant. Gather and dispose of in accordance with applicable regulations.
WASTE DISPOSAL METHODS: Dispose of in accordance with applicable federal, state and local laws, regulations, rules, orders and ordinances.

SECTION 8 PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: None required under normal conditions of use with adequate ventilation.
VENTILATION-LOCAL: Normal. MECHANICAL: Required if odors are present or operator experiences any discomfort.
OTHER: No applicable information found.
SKIN PROTECTION: No special equipment required. However, good personal hygiene practices should always be followed. Do not wear oil soaked clothing.
EYE PROTECTION: Always wear NIOSH approved eye protection when working around or operating machinery.
OTHER EQUIPMENT: No applicable information found.
MEASURES TO BE TAKEN DURING REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT THAT HAS BEEN IN CONTACT WITH THIS MATERIAL: Same as for petroleum lubricating oil. Remove traces of material if soldering, welding, brazing, cutting or other process involving ignition sources to prevent a fire hazard.

SECTION 9 FIRE AND EXPLOSION HAZARD DATA

FLASH POINT--------190 F (88 C) ASTM D-93
FLAMMABLE LIMITS--- LEL: Unknown UEL: Unknown
EXTINGUISHING MEDIA: Carbon dioxide, foam and dry chemical.
SPECIAL FIRE FIGHTING PROCEDURES: For fires in enclosed areas, firefighters must use self-contained breathing apparatus. Water spray is an unsuitable extinguishing agent.
UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

NFPA DESIGNATION 704

HAZARD RATING		
4=Extreme	· HEALTH	0 ·
3=High	· FIRE	0 ·
2=Moderate	· REACTIVITY	0 ·
1=Slight	· SPECIFIC HAZARD	NONE ·
0=Insignificant		

SUNNEN

MATERIAL SAFETY DATA SHEET

SECTION 1 NAME AND PRODUCT

MANUFACTURER'S NAME:	SUNNEN PRODUCTS COMPANY	CONTACT:	Terry Heller
ADDRESS:	7910 Manchester Ave.	EMERGENCY PHONE NO:	314-781-2105
	St. Louis, Mo. 63143	APPROVED BY:	Terry Heller
	United States of America	TITLE:	Manager, Materials R/D
		DATE:	August 15, 1987

TRADE NAME, COMMON NAME OR SPECIFICATION: Sunnen AN-994A or AN-980 ABRASIVE CONE

CHEMICAL FAMILY: No applicable information found. CLASSIFICATION: Not applicable D.O.T. SHIPPING CLASS: Not applicable

SECTION 2 HAZARDOUS INGREDIENTS/IDENTITY (PER 29 C.F.R. 1910.1200(g))

COMMON NAME	CHEMICAL NAME OF COMPONENTS	CAS NO	OSHA PEL mg./cu. m.	ACGIH TLV-TWA mg./cu. m.	CARCINOGENIC
CRYOLITE	SODIUM FLUOALUMINATE	15096-52-3	2.5	2.5	N

FOR FURTHER SAFETY AND HEALTH INFORMATION REGARDING THE COMPOSITION OF THIS MATERIAL CONTACT SUNNEN PRODUCTS, INDUSTRIAL SALES DEPARTMENT.

SECTION 3 PHYSICAL & CHEMICAL CHARACTERISTICS

SPECIFIC GRAVITY (WATER=1)--------Unknown
MELTING POINT----------Unknown
PERCENT VOLATILE BY WEIGHT--------Not volatile
VAPOR PRESSURE (mm Hg)----------Not volatile
VAPOR DENSITY (Air=1)----------Not volatile
EVAPORATION RATE ----------Not volatile
SOLUBILITY IN WATER----------Not soluble
REACTIVITY IN WATER----------Not reactive
APPEARANCE AND ODOR----------Solid material. May give off odor in use.

SECTION 4 SPECIAL PRECAUTIONS

HANDLING AND STORAGE: NONE Refer to Section 7.

SECTION 5 CORROSIVITY AND REACTIVITY DATA

STABILITY: MATERIAL IS STABLE UNDER NORMAL CONDITIONS OF TRANSPORT AND STORAGE.
POLYMERIZATION: HAZARDOUS POLYMERIZATION WILL NOT OCCUR.
INCOMPATIBILITY (MATERIALS TO AVOID): None known

SECTION 6 HEALTH, FIRST AID AND MEDICAL DATA

ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE. PRIMARY ROUTE(S) OF ENTRY ARE: INGESTION, INHALATION AND SKIN ABSORPTION. ABBREVIATIONS USED IN THE FOLLOWING SECTION: NAIF=NO APPLICABLE INFORMATION FOUND, SKIN=SKIN ABSORPTION, EYE=EYE CONTACT, INHAL=INHALATION, INGEST=INGESTION

SODIUM FLUOALUMINATE: ACUTE: SKIN: NAIF. EYE: NAIF. INHAL: NAIF. INGEST: Acute toxicity by ingestion is known to be very low. Literature reports the toxicity as LD50=200 mg/kg (Oral Rats). CHRONIC: SKIN: NAIF. EYE: NAIF. INHAL: Changes in skeleton noted on X-rays. INGEST: NAIF.

EMERGENCY FIRST AID

INHALATION: Remove to fresh air. If not breathing, begin mouth to mouth resuscitation. Seek medical attention. **EYE CONTACT:** Remove contact lenses (if wearing) and flush eyes with water to remove particulates. Seek medical attention to check for possible irritation. **SKIN CONTACT:** Brush off excess dust. Wash hands with mild non-abrasive soap and water. **INGESTION:** Seek medical attention.

SECTION 7 HANDLING, STORAGE AND USE PROCEDURES

NORMAL STORAGE AND HANDLING: No special procedures.
NORMAL USE: Normal precautions should be taken for nuisance dust and particulates generated during grinding which will be principally from the workpiece rather than the product.
STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS: Normal cleanup procedures.
WASTE DISPOSAL METHODS: Dispose of in accordance with applicable federal, state and local laws, regulations, rules, orders and ordinances.

SECTION 8 PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Utilize approved respiratory protection for nuisance dust.
VENTILATION LOCAL: Normal
MECHANICAL: Utilize forced ventilation to keep airborne concentration of dust below limits.
SKIN PROTECTION: Protective gloves recommended when grinding.
EYE PROTECTION: Always wear NIOSH approved safety glasses when operating machinery. See OSHA 29 CFR 1910.133.
OTHER EQUIPMENT: Hearing protection if noise levels exceed NIOSH/OSHA TLV/PEL levels. See OSHA 29 CFR 1910.215

SECTION 9 FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Unknown

FLAMMABLE LIMITS	LEL (lower)	UEL (upper)
IN AIR % BY VOLUME	Unknown	Unknown

EXTINGUISHING MEDIA: FOAM, CARBON DIOXIDE, DRY CHEMICAL, WATER
SPECIAL FIRE FIGHTING PROCEDURES: NONE
UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE

NOTICE

THIS MATERIAL SAFETY DATA SHEET ("MSDS") IS SUPPLIED PURSUANT TO THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION'S HAZARD COMMUNICATION RULE (THE "RULE"), 29 CFR 1910.1200. THIS MSDS IS BEING FURNISHED TO THE IMMEDIATE PURCHASER OF THE MATERIAL TO WHICH IT REFERS WITHOUT REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS OR ACCURACY OF ANY INFORMATION OR RECOMMENDATIONS CONTAINED HEREIN.

THIS MSDS IS OFFERED SOLELY TO COMPLY WITH THE RULE AND IS NOT INTENDED TO CREATE ANY LIABILITY OF ANY KIND ON THE PART OF SUNNEN PRODUCTS COMPANY ("SUNNEN"). IN NO EVENT WILL SUNNEN BE RESPONSIBLE FOR ANY DEATH, INJURY OR DAMAGE OF ANY NATURE WHATSOEVER RESULTING FROM THE USE OF, RELIANCE UPON OR MISUSE OF THE MSDS. NO REPRESENTATIONS OR WARRANTIES, WHETHER EXPRESSE OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER NATURE, ARE MADE HEREUNDER. THIS MSDS IS NOT INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR EXTEND LICENSES UNDER VALID PATENTS.

THIS MSDS IS FURNISHED UPON THE EXPRESS CONDITION THAT ALL PERSONS RECEIVING IT WILL MAKE THEIR OWN DETERMINATION AS TO ITS SUITABILITY FOR THEIR PURPOSED PRIOR TO USE. RESPONSIBILITY FOR COMPLIANCE WITH APPLICABLE FEDERAL, STATE OR LOCAL REGULATIONS CONCERNING DISSEMINATION OF THE MSDS AND SALE AND USE OF THE MATERIAL TO WHICH IT REFERS RESTS SOLELY UPON THE PURCHASER.

NFPA DESIGNATION 704		
HAZARD RATING	- HEALTH	0 -
4=Extreme		
3=High	- FIRE	1 -
2=Moderate		
1=Slight	- REACTIVITY	0 -
0=Insignificant		
	- SPECIFIC HAZARD	NONE -

SUNNEN

MATERIAL SAFETY DATA SHEET

SECTION 1 NAME AND PRODUCT

MANUFACTURER'S NAME: SUNNEN PRODUCTS COMPANY
ADDRESS: 7910 Manchester Ave.
St. Louis, Mo. 63143
United States of America

CONTACT: Terry Heller
EMERGENCY PHONE NO: 314-781-2105
APPROVED BY: Terry Heller
TITLE: Manager, Materials R/D
DATE: August 15, 1987

TRADE NAME, COMMON NAME OR SPECIFICATION: **MAN-852-5 and MAN-852-55 HONING OIL**

CHEMICAL FAMILY: ANIMAL FATTY OIL AND SYNTHETIC FATTY ACID ESTER BLEND.
CLASSIFICATION: NOT APPLICABLE
D.O.T. SHIPPING CLASS: NOT APPLICABLE

SECTION 2 HAZARDOUS INGREDIENTS/IDENTITY (PER 29 C.F.R. 1910.1200(g))

COMMON NAME	CHEMICAL NAME OF COMPONENTS	CAS NO	OSHA PEL mg./cu. m.	ACGIH TLV-TWA mg./cu. m.	WT % Range	CARCINOGENIC

WHEN EVALUATED IN ACCORDANCE WITH THE PROVISIONS OF THE FEDERAL HAZARD COMMUNICATION RULE 29 CFR 1910.1200 MAN-852 WAS JUDGED TO BE NON-HAZARDOUS.

FOR FURTHER SAFETY AND HEALTH INFORMATION REGARDING THE COMPOSITION OF THIS MATERIAL CONTACT SUNNEN PRODUCTS, INDUSTRIAL SALES DEPARTMENT.

SECTION 3 PHYSICAL & CHEMICAL CHARACTERISTICS

SPECIFIC GRAVITY (WATER=1)--------.95
PERCENT VOLATILE BY WEIGHT--------<1%
BOILING POINT----------->600 F (315 C)
VAPOR PRESSURE (mm Hg)----------<.1mm Hg @ 68 F (20 C)
VAPOR DENSITY (Air=1)----------Heavier than air.
EVAPORATION RATE ----------Negligible
SOLUBILITY IN WATER----------Negligible. Material is completely soluble in common hydrocarbon or chlorinated hydrocarbon solvents such as mineral spirits or trichloroethane.
REACTIVITY IN WATER----------No hazardous reactions.
APPEARANCE AND ODOR----------Amber color liquid with fatty odor.

SECTION 4 SPECIAL PRECAUTIONS

HANDLING AND STORAGE: Store away from heat or flame. Read and follow container warnings. Refer to MSDS Section 7 & 8

SECTION 5 CORROSIVITY AND REACTIVITY DATA

STABILITY: Stable under normal conditions of transport and storage. POLYMERIZATION: Hazardous polymerization will not occur.
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidation agents such as fuming nitric acid.
CONDITIONS TO BE AVOIDED: Oxidizing conditions. HAZARDOUS DECOMPOSITION PRODUCTS: Combustion will form Carbon monoxide.

SECTION 6 HEALTH, FIRST AID AND MEDICAL DATA

ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE
PRIMARY ROUTE(S) OF ENTRY ARE: INHALATION AND SKIN ABSORPTION.
Abbreviations used in the following section: SKIN=Skin absorption. EYE=Eye contact. INHAL=Inhalation INGEST=Ingestion.

FATTY OIL: ACUTE: SKIN: Prolonged repeated skin contact can cause skin irritation or oil acne, inflammation and blackheads due to mechanical blockage of the pores. Predisposing factors: Usually individuals with sensitive skin or large amounts of body hair. Material is not sterile and may infect open cuts or sores. EYE: May irritate the eyes. INGEST: Loose bowel movements. Acute oral toxicity: LD 50>5 gm./kg. (rats). INHAL: Not established. Suggest ACGIH limits for vegetable oil mists of 5 mg/cu m. be observed. Symptoms of overexposure include coughing, sore throat, headache, chest pain and difficult breathing. Predisposing factors: Individuals with pre-existing respiratory impairments (such as emphyzema) can display increased sensitivity to oil mists or vapors. **CHRONIC:** SKIN: NAIF. EYE: NAIF. INHAL: NAIF. INGEST: NAIF.

EMERGENCY FIRST AID

INHALATION: Remove from further exposure. If unconsciousness occurs, seek immediate medical assistance and call a physician. If breathing has stopped, begin mouth to mouth resuscitation. **EYE CONTACT:** Remove contact lenses (if wearing) and flush eyes with water for 15 minutes. Seek medical attention to check for possible irritation. **SKIN CONTACT:** Wash contact areas with mild non-abrasive soap and water. **INGESTION:** Do not induce vomiting. Call physician or poison control center immediately.

SECTION 7 HANDLING, STORAGE AND USE PROCEDURES

NORMAL STORAGE AND HANDLING: Store away from heat or flame as the material will expand if overheated and possibly rupture the container spilling the contents. The spilled material will create a slip hazard and will burn if ignited. If stored outdoors, store so as to shed water to prevent rusting of drums and spilling contents. Plastic containers are brittle if frozen and may split and leak if handled roughly. Spilled material creates a fall/slip hazard. Since emptied containers retain material residue, follow label warnings even after container is emptied and do not reuse container for other purposes. Do not cut, braze, weld, solder, pressurize or introduce ignition sources in or around container. Do not transfer to unlabeled containers. For industrial use only. Material should be heated to 100 F and mixed prior to transfer of contents if product separates as a result of cold storage (T<50 F). Vent container if heating. Use drum heater for drums. Pails may be immersed in hot water to warm contents. Use personal protection equipment and precautions as specified in Section 8.

NORMAL USE: Material is for use in Honing Machines only. Material may be mixed with other Sunnen Honing Oils only. Clean material from parts using alkaline cleaner. Pollution by any amount of water or alkaline material will lead to the formation of soaps that clog the Honing Machine oil filter.

STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS: Contain and absorb on fire-retardant treated sawdust, diatomaceous earth or other suitable absorbant. Notify Coast Guard if spill could reach any waterways (1-800-424-8802) and also local/state authorities. Spilled material is greasy and produces a slip/fall hazard.

WASTE DISPOSAL METHOD: Dispose of in accordance with applicable federal, state and local laws, regulations, rules, orders and ordinances.

SECTION 8 PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: If use conditions give rise to mist levels >5 mg/cu m or if operator experiences any respiratory irritation use NIOSH approved respirator rated for use with mineral or vegetable oil mist.

VENTILATION LOCAL: Normal ventilation.
MECHANICAL: Required if use conditions give rise to mist levels greater than 5 mg/cu m or if operator experience any respiratory or eye irritation.

PROTECTIVE GLOVES: If preferred or if sensitivity to material has been demonstrated use gloves rated for animal or vegetable oil.

EYE PROTECTION: Glasses or goggles to prevent inadvertent splashing of material into eyes. Always wear safety glasses while working around or operating machinery.

OTHER PROTECTION: Apron or barrier cream if desired. Do not wear oil-soaked clothing as it may cause skin irritation or oil acne.

MEASURES TO BE TAKEN DURING REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT THAT HAS BEEN IN CONTACT WITH THIS MATERIAL: Same as for petroleum lub oil. Remove traces of material if soldering, welding, brazing, cutting or other process involving ignition sources by cleaning with caustic cleaners.

NFPA DESIGNATION 704

HAZARD RATING	- HEALTH	0 -
4=Extreme		
3=High	- FIRE	1 -
2=Moderate		
1=Slight	- REACTIVITY	0 -
0=Insignificant		
	- SPECIFIC HAZARD	NONE -

SUNNEN

MATERIAL SAFETY DATA SHEET

SECTION 1 NAME AND PRODUCT

MANUFACTURER'S NAME: SUNNEN PRODUCTS COMPANY
ADDRESS: 7910 Manchester Ave.
St. Louis, Mo. 63143
United States of America

CONTACT: Terry Heller
EMERGENCY PHONE NO: 314-781-2105
APPROVED BY: Terry Heller
TITLE: Manager, Materials R/D
DATE: August 15, 1987

TRADE NAME, COMMON NAME OR SPECIFICATION: **Sunnen KG3X Honing Oil**

CHEMICAL FAMILY OR PRODUCT TYPE:Non-Petroleum fatty oil with preservative.
CLASSIFICATION: NOT APPLICABLE
D.O.T. SHIPPING CLASS: NOT APPLICABLE

SECTION 2 HAZARDOUS INGREDIENTS/IDENTITY (PER 29 C.F.R. 1910.1200(g))

COMMON NAME	CHEMICAL NAME OF COMPONENTS	CAS NO	Wt.%	OSHA PEL mg./cu. m.	ACGIH TLV-TWA mg./cu. m.	CARCINOGENIC

WHEN EVALUATED IN ACCORDANCE WITH THE PROVISIONS OF THE FEDERAL HAZARD COMMUNICATION RULE 29 CFR 1910.1200 KG3X WAS JUDGED TO BE NON-HAZARDOUS.

FOR FURTHER SAFETY AND HEALTH INFORMATION REGARDING THE COMPOSITION OF THIS MATERIAL CONTACT SUNNEN PRODUCTS, INDUSTRIAL SALES DEPARTMENT.

SECTION 3 PHYSICAL & CHEMICAL CHARACTERISTICS

SPECIFIC GRAVITY (WATER=1)---------.905
BOILING POINT----------->460 F (238 C)
MELTING POINT----------35 F (2 C) (Congeals)
VAPOR PRESSURE (mm Hg)----------<1 @ 68 F (20 C)
VAPOR DENSITY (Air=1)----------->20 Est.
EVAPORATION RATE (CCl4=1)---------Not volatile
SOLUBILITY IN WATER----------< 1%
REACTIVITY IN WATER----------No hazardous reactions.
APPEARANCE AND ODOR----------Amber color liquid with fatty odor.

SECTION 4 SPECIAL PRECAUTIONS

HANDLING AND STORAGE: None. Read and follow container warnings. Refer to Section 7 & 8

SECTION 5 CORROSIVITY AND REACTIVITY DATA

STABILITY: Material is stable.
POLYMERIZATION: Material will not polymerize.
INCOMPATIBILITY (materials to avoid): Material will slowly corrode and stain metals.
DECOMPOSITION PRODUCTS: Combustion of material will produce oxides of Carbon. Material is organic and will slowly oxidize and decay forming compounds containing Carbonyl group, Hydroxyl group, Carboxyl group, Oxirane, glycerol, hydroperoxides, aldehydes, ketones and acids.

CONDITIONS TO BE AVOIDED: Avoid contact with strong oxidizers such as hot fuming Nitric or Sulfuric acid as they cause the material to ignite and burn. If the material is in a closed container (such as a drum), the container can explode.

SECTION 6 HEALTH, FIRST AID AND MEDICAL DATA

ACUTE: SKIN:Prolonged or repeated contact can cause skin irritation or oil acne:folliculitis and comedones due to mechanical blockage of the follicular orifices. Predisposing factors: usually individuals with sensitive skin or large amounts of body hair. EYE: Overheating (>200 F) used material can release Acrolein (an eye irritant) causing redness and burning of the eyes. INHAL: Symptoms of overexposure include coughing, sore throat, headache, chest pain and difficult breathing. Predisposing factors: Individuals with pre-existing respiratory impairments (such as emphyzema) can display increased sensitivity to oil mist or vapors. INGEST: Loose bowel movements. **CHRONIC:** SKIN: Material is potentially a skin sensitizer. Individuals can experience skin irritation after prolonged exposure. Material is not sterile and may infect open cuts or sores. EYE: NAIF. INHAL: NAIF. INGEST: NAIF. OTHER: Material will support the growth of bacteria, mold and fungus.

EMERGENCY FIRST AID

INHALATION: Remove from further exposure. If unconsciousness occurs, seek immediate medical assistance and call a physician. If breathing has stopped, begin mouth to mouth resuscitation. **EYE CONTACT:** Remove contact lenses (if wearing) and flush eyes with water for 15 minutes. Seek medical attention to check for possible irritation. **SKIN CONTACT:** Wash contact areas with mild non-abrasive soap and water. **INGESTION:** Do not induce vomiting. Get medical assistance.

SECTION 7 HANDLING, STORAGE AND USE PROCEDURES

NORMAL STORAGE AND HANDLING: Store away from heat or flame as the material will expand if overheated and possibly rupture the container spilling the contents. The spilled material will create a slip hazard and will burn if ignited. If stored outdoors, store so as to shed water to prevent rusting of drums and spilling contents. Plastic containers are brittle if frozen and may split and leak if handled roughly. Spilled material creates a fall/slip hazard. Since emptied containers retain material residue, follow label warnings even after container is emptied. Material should be heated to 100 F and mixed prior to transfer of contents if product separates as a result of cold storage (T<50 F). Vent container if heating. Use drum heater for drums. Pails may be immersed in hot water to warm contents. Refer to MSDS Section 8.

NORMAL USE: Material is for use in Honing Machines only. Material may be mixed with other Sunnen Honing Oils only. Clean material from parts using alkaline cleaner. Pollution by any amount of water or alkaline material will lead to the formation of soaps that clog the Honing Machine oil filter.

STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS: Contain and absorb on fire-retardant treated sawdust, diatomaceous earth or other suitable absorbant. Notify Coast Guard if spill could reach any waterways (1-800-424-8802) and also local/state authorities. Spilled material is greasy and produces a slip/fall hazard.

WASTE DISPOSAL METHOD: Dispose of in accordance with applicable federal, state and local laws, regulations, rules, orders and ordinances.

SECTION 8 PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: If use conditions give rise to mist levels >5 mg/cu m or if operator experiences any respiratory irritation use respirator rated for use with mineral or vegetable oil.

VENTILATION
LOCAL: Normal ventilation.
MECHANICAL: Required if use conditions give rise to mist levels greater than 5 mg/cu m or if operator experiences any respiratory or eye irritation.

PROTECTIVE GLOVES: If preferred or if sensitivity to material has been demonstrated use gloves rated for animal or vegetable oil.

EYE PROTECTION: Glasses or goggles to prevent inadvertent splashing of material into eyes. Always wear safety glasses while honing.

OTHER PROTECTION: Apron, if desired. Do not wear oil-soaked clothing as it may cause skin irritation or oil acne.

NFPA DESIGNATION 704		
HAZARD RATING	- HEALTH	0 -
4=Extreme		
3=High	- FIRE	1 -
2=Moderate		
1=Slight	- REACTIVITY	0 -
0=Insignificant		
	- SPECIFIC HAZARD	NONE -

SUNNEN

MATERIAL SAFETY DATA SHEET

SECTION 1 NAME AND PRODUCT

MANUFACTURER'S NAME: SUNNEN PRODUCTS COMPANY
ADDRESS: 7910 Manchester Ave.
St. Louis, Mo. 63143
United States of America

CONTACT: Terry Heller
EMERGENCY PHONE NO: 314-781-2105
APPROVED BY: Terry Heller
TITLE: Manager, Materials R/D
DATE: August 15, 1987

TRADE NAME, COMMON NAME OR SPECIFICATION: **COS-155 or COS-155-5 COOLANT**

CHEMICAL FAMILY: PETROLEUM HYDROCARBONS AND ADDITIVES. CLASSIFICATION: PETROLEUM OIL N.O.S.
D.O.T. SHIPPING CLASS: COMBUSTIBLE LIQUID. IDENTIFICATION NUMBER: NA1270

SECTION 2 HAZARDOUS INGREDIENTS/IDENTITY (PER 29 C.F.R. 1910.1200(g))

COMMON NAME	CHEMICAL NAME OF COMPONENTS	CAS NO	Wt.%	OSHA PEL mg./cu. m.	ACGIH TLV-TWA mg./cu. m.	CARCINOGENIC
OIL	SEVERELY HYDROTREATED LIGHT NAPHTHENIC DISTILLATE	64742-53-6	>93	5 (mist)	5 (mist)	N
OIL	SEVERELY HYDROTREATED HEAVY NAPHTHENIC DISTILLATE	64742-52-5	> 3	5 (mist)	5 (mist)	N

FOR FURTHER SAFETY AND HEALTH INFORMATION REGARDING THE COMPOSITION OF THIS MATERIAL CONTACT SUNNEN PRODUCTS, INDUSTRIAL SALES DEPARTMENT.

SECTION 3 PHYSICAL & CHEMICAL CHARACTERISTICS

SPECIFIC GRAVITY (WATER=1)-----.892 @ 77 F (25 C)
BOILING POINT----------320 F (160 C)
REACTIVITY IN WATER----------NO HAZARDOUS REACTIONS
APPEARANCE AND ODOR----------REDDISH BROWN LIQUID WITH MINERAL OIL ODOR.
SOLUBILITY IN WATER----------APPROXIMATELY 25% BY VOLUME OF WATER IS SOLUBLE IN THE MATERIAL. MATERIAL IS ALSO SOLUBLE IN PETROLEUM SOLVENTS SUCH AS MINERAL SPIRITS.

PERCENT VOLATILE BY WEIGHT------NEGLIGIBLE
VAPOR PRESSURE (mm Hg)----------NEGLIGIBLE
VAPOR DENSITY (Air=1)----------HEAVIER THAN AIR
EVAPORATION RATE ----------NEGLIGIBLE

SECTION 4 SPECIAL PRECAUTIONS

HANDLING AND STORAGE: Store away from heat or flame. Read and follow container warnings. Refer to Section 7 & 8.

SECTION 5 CORROSIVITY AND REACTIVITY DATA

STABILITY: Material is stable under normal conditions of transport and storage. POLYMERIZATION: Hazardous polymerization will not occur. INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidation agents such as fuming Nitric Acid. Product may react with alkalai such as parts cleaners to form soaps and/or emulsions. CONDITIONS TO BE AVOIDED: Oxidizing conditions. HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen Chloride and oxides of Sulfur, Carbon and Nitrogen from combustion.

SECTION 6 HEALTH, FIRST AID AND MEDICAL DATA

ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE

PRIMARY ROUTE(S) OF ENTRY ARE: INHALATION AND SKIN ABSORPTION.

ACUTE: Prolonged repeated skin contact with material may lead to irritation caused by dissolving of the natural oils from the skin causing slight skin irritation. ORAL TOXICITY (RATS): Not established. Estimated to be slightly toxic based on testing of similar products. DERMAL TOXICITY (RABBITS): Not established. Estimated to be slightly toxic based on testing of similar products. INHALATION TOXICITY (RATS): Not established. EYE IRRITATION (RABBITS): Not established. May irritate the eyes. SKIN IRRITATION (RABBITS): Not established. May cause slight irritation on prolonged or repeated contact.--Based on testing of similar products and/or the components.
CHRONIC: No applicable information found.

EMERGENCY FIRST AID

INHALATION: Remove to fresh air. If not breathing, begin mouth to mouth resuscitation. Seek medical attention.
EYE CONTACT: Remove contact lenses (if wearing) and flush eyes with water for 15 minutes. Seek medical attention to check for possible irritation. **SKIN CONTACT:** Wash hands with mild non-abrasive soap and water.
INGESTION: Do not induce vomiting. Get medical assistance. (Note to physician: Material if aspirated into the lungs may cause chemical pneumonitis. Treat appropriately).

SECTION 7 HANDLING, STORAGE AND USE PROCEDURES

NORMAL STORAGE AND HANDLING: Store away from heat or flame as the material will expand if overheated and possibly rupture the container, spilling the contents. Plastic containers are brittle if frozen and may split and leak if handled roughly. The spilled material will create a slip hazard and will burn if ignited. Since emptied containers retain material residue, follow label warnings even after container is emptied and do not reuse container for other purposes. Do not cut, braze, weld, solder, or pressurize container as doing so may cause container to EXPLODE, potentially causing serious injury or DEATH. Do not transfer to unlabeled containers. For industrial use only. Not suitable for use in or around household or dwelling. All precautions detailed on the container label apply to partially full or empty containers.

NORMAL USE: Practice good personal hygiene by washing hands several times each day. Launder contaminated clothing before reuse. Avoid wearing clothing soaked with fluid. Avoid prolonged inhalation of mist or vapors. Clean material from parts using alkaline cleaner. Use personal protection equipment and precautions as specified in Section 8. Read caution statements and follow instructions on container label.

STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS: Contain and absorb on fire-retardant treated sawdust, diatomaceous earth or other suitable absorbant. Notify Coast Guard if spill could reach any waterways (1-800-424-8802) and also local/state authorities. Spilled material is greasy and produces a slip/fall hazard.

WASTE DISPOSAL METHOD: Dispose of in accordance with applicable federal, state and local laws, regulations, rules, orders and ordinances.

SECTION 8 PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: If use conditions give rise to mist levels >5 mg/cu m or if operator experiences any respiratory irritation use NIOSH approved respirator rated for use with mineral oil mist.
VENTILATION LOCAL: Normal ventilation.
MECHANICAL: Required if use conditions give rise to mist levels greater than 5 mg/cu m or if operator experiences any respiratory or eye irritation.
PROTECTIVE GLOVES: If preferred or if sensitivity to material has been demonstrated use gloves rated for mineral oil.
EYE PROTECTION: Glasses or goggles to prevent inadvertent splashing of material into eyes. Always wear safety glasses while working around or operating machinery.
OTHER PROTECTION: Apron or barrier cream if desired. Do not wear oil-soaked clothing as it may cause skin irritation or oil acne.
MEASURES TO BE TAKEN DURING REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT THAT HAS BEEN IN CONTACT WITH THIS MATERIAL: Remove traces of material if soldering, welding, brazing, cutting or other process involving ignition sources by cleaning with caustic cleaners.

MATERIAL SAFETY DATA SHEET : SWISH AEROSOL (BT) PAGE : 01

(006372-0489 -D0049671-5062)

DATE OF ISSUE	SUPERSEDES
11/11/87	08/22/85

SECTION I - GENERAL INFORMATION

CHEMICAL NAME & SYNONYMS	TRADE NAME & SYNONYMS
N/A	SWISH AEROSOL (BT)
CHEMICAL FAMILY	FORMULA
AEROSOL SOLVENT DEGREASER	<--MIXTURE

MANUFACTURERS NAME:
NATIONAL CHEMSEARCH DIV. OF NCH CORP.

ADDRESS (NUMBER, STREET, CITY, STATE & ZIP CODE)
BOX 152170
IRVING, TEXAS 75015

PREPARED BY:	PRODUCT CODE NUMBER	EMERGENCY TELEPHONE NUMBER
DON POKRAS/T.S. CHEMIST	5062	214-438-1381

SECTION II- HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS AS THE PRODUCT MIXTURE HAS NOT BEEN TESTED AS A WHOLE.

CHEMICAL NAME (INGREDIENTS)	HAZARD	TLV*	PEL*	CAS#
1,1,1-TRICHLOROETHANE	IRRITANT	350 PPM 1.	350 PPM 1.	71-55-6

SECTION III - PHYSICAL DATA

BOILING PT.(FAHRENHEIT)	162	SPEC GRAVITY (H2O=1)	:1.298
VAPOR PRESSURE (MM HG).	100	COLOR	WATER WHITE
VAPOR DENSITY (AIR=1)	4.6	ODOR	CHLOR. HYDROCARBON
PH @ 100%	N/A	CLARITY	CLEAR

PERCENT, VOLATILE BY VOLUME (%)	100	EVAPORATION RATE (BU AC = 1)	0.75
SOLUBILITY IN WATER	NEGLIGIBLE		
VISCOSITY	NON-VISCOUS		

SECTION IV - FIRE AND EXPLOSION HAZARD

FLASH POINT (METHOD USED)	FLAMMABLE LIMITS	LEL	UEL
NONE C.O.C.		6% @ 25 C.	16.7 @ 25C

EXTINGUISHING MEDIA	"ALCOHOL"		DRY		WATER	
<--FOAM	<--FOAM	<--CO2	<--CHEMICAL	<--SPRAY	X<--OTHER	

SPECIAL FIRE FIGHTING PROCEDURES

POSITIVE PRESSURE, SELF-CONTAINED RESPIRATORY EQUIPMENT.

UNUSUAL FIRE & EXPLOSION HAZARDS

CAN FORM PHOSGENE UNDER CERTAIN CONDITIONS OF HEAT.

SECTION V - HEALTH HAZARD DATA

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THRESHOLD LIMIT VALUE :

NOT ESTABLISHED FOR MIXTURE. SEE SECTION II.

EFFECTS OF OVEREXPOSURE

- ACUTE - (SHORT TERM EXPOSURE)

INHALATION: OVEREXPOSURE CAN CAUSE DIZZINESS, DRUNKENNESS AND DROWSINESS, UNCONSCIOUSNESS AND EVEN DEATH AT EXTREME DOSES.
SKIN CONTACT: ABSORPTION THROUGH SKIN IS NOT A SIGNIFICANT ROUTE OF EXPOSURE - MILDLY IRRITATING ON CONTACT.
INGESTION: UNLIKELY ROUTE OF EXPOSURE. INGESTION OF SMALL QUANTITIES IS NOT LIKELY TO BE TOXIC. ALSO UNLIKELY BECAUSE IT BEING AN AEROSOL.
EYES: MILD IRRITATION, BUT NOT CORNEAL INJURY LIKELY.

- CHRONIC - (LONG TERM EXPOSURE)

INHALATION: MAJOR ROUTE OF EXPOSURE - LOW SYSTEMIC TOXICITY.
SKIN CONTACT: PROLONGED OR REPEATED SKIN CONTACT CAN CAUSE DERMATITIS THROUGH DEFATTING OF SKIN.
EYES: MAY CAUSE CONJUNCTIVITIS.

STORAGE TEMPERATURE 120 F.<--MAX 32 F.<--MIN	INDOOR	HEATED	REFRIGERATED	OUTDOOR
	X			

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING
AVOID BREATHING VAPORS. STORE IN A COOL, DRY PLACE. VAPORS ARE HEAVIER THAN AIR AND WILL COLLECT IN LOW AREAS. DO NOT ENTER THESE AREAS WHERE VAPORS ARE SUSPECTED. DO NOT USE WITH POWDERED ZINC OR ALUMINUM.

OTHER PRECAUTIONS
ALWAYS FOLLOW LABEL DIRECTIONS. KEEP OUT OF REACH OF CHILDREN.

SECTION XI - TRANSPORTATION * (FOR FUTURE USE)

APPLICABLE REGULATIONS
<--49 CFR <--IMCO <--TARIFF 6 D <--IATA <--MILITARY AIR (AFR 71-4)

SHIPPING NAME

HAZARD CLASS	ID NUMBER	REPORT QTY
LABELS	LIMITED QTY	

UNIT CONTAINER

DOT SPS CONTAINER	NET EXPLOSIVE WT.

AEROSOL PROPELLANT(S)

SECTION XII - REFERENCES

1. VENDOR'S MSDS.
2. DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, 6TH EDITION, N. IRVING SAX.

NOTE: N/A- REPRESENTS THE NON-APPLICABLE NATURE OF THIS SECTION WITH RESPECT TO HTIS PRODUCT.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE IN LIGHT OF CURRENT FORMULATION. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

NATIONAL CHEMSEARCH DIV. OF NCH CORP. ASSUMES NO RESPONSIBILITY FOR PERSONAL INJURY OR PROPERTY DAMAGE CAUSED BY THE USE, STORAGE OR DISPOSAL OF THE PRODUCT IN A MANNER NOT RECOMMENDED ON THE PRODUCT LABEL. USERS ASSUME ALL RISKS ASSOCIATED WITH SUCH UNRECOMMENDED USE, STORAGE, OR DISPOSAL OF THE PRODUCT.

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3M Center
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(612) 733-1110

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MATERIAL SAFETY
DATA SHEET

3M

DIVISION: ADHESIVES, COATINGS AND SEALERS
TRADE NAME:
EC-3524 Part A
3M I.D. NUMBER: 62-3624-0000-0

ISSUED: JANUARY 12, 1989
SUPERSEDES: NOVEMBER 10, 1988
DOCUMENT: 10-4960-0

1. INGREDIENT	C.A.S. NO.	PERCENT	EXPOSURE LIMITS VALUE	UNIT	TYPE	AUTH
amine terminated polymer - N.J. Trade Secret (T.S.) Registry No. 04499600-5573P	T.S.	50.0 - 60.0	NONE	NONE	NONE	NONE
glass bubbles	none	20.0 - 30.0	NONE	NONE	NONE	NONE
flame retardant	13560-89-9	10.0 - 20.0	NONE	NONE	NONE	NONE
2,4,6-tris (dimethylamino)methyl phenol	90-72-2	1.0 - 10.0	5	ppm	TWA	CMRG
triphenylphosphite	68610-62-8	1.0 - 10.0	NONE	NONE	NONE	NONE

SOURCE OF EXPOSURE LIMIT DATA:
- CMRG: Chemical Manufacture Recommended Guidelines
- NONE: None Established

2. PHYSICAL DATA

BOILING POINT:..... N/A
VAPOR PRESSURE:..... N/A
VAPOR DENSITY: ..... N/A
EVAPORATION RATE:..... N/A
SOLUBILITY IN WATER: ..... Very slight
SP. GRAVITY:..... 0.500 Water = 1
PERCENT VOLATILE: ..... 0.00 %
VOLATILE ORGANICS: ..... N/A
pH: ..... N/A
VISCOSITY: ..... Paste
APPEARANCE AND ODOR: White, paste, characteristic amine odor

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... > 200.00 F
FLAMMABLE LIMITS - LEL: ..... N/A
FLAMMABLE LIMITS - UEL: ..... N/A
AUTOIGNITION TEMPERATURE: ... N/D
EXTINGUISHING MEDIA:
CO2, foam, dry chemical
SPECIAL FIRE FIGHTING PROCEDURES:
Fire fighters should be equipped with self-contained breathing apparatus when handling this material.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
None.
NFPA-HAZARD-CODES: HEALTH 1 **FIRE** 0 **REACTIVITY** 1
UNUSUAL REACTION HAZARD: None

Abbreviations: N/D - Not Determined N/A - Not Applicable

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3M Center
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MATERIAL SAFETY
DATA SHEET

DIVISION: ADHESIVES, COATINGS AND SEALERS
TRADE NAME: EC-3524 Part B
3M I.D. NUMBER: 62-3524-9501-4
ISSUED: APRIL 24, 1987
SUPERSEDES: DECEMBER 3, 1985
DOCUMENT: 10-4959-2

1. INGREDIENTS	C.A.S. NO.	PERCENT	EXPOSURE LIMITS	
glass bubbles	N/A	20.0- 30.0	N/D	5
epichlorohydrin/bisphenol A epoxy resin blend and brominated epoxy resin blend	N/A Mixture	70.0- 80.0	N/D	5
antimony trioxide	1309-64-4	1.0- 10.0	0.5 mg/m3	1

SOURCE OF EXPOSURE LIMIT DATA:
1. ACGIH Threshold Limit Values
2. Federal OSHA Permissible Exposure Limit
3. 3M Exposure Guidelines
4. Chemical Manufacturer Recommended Guidelines
5. None Established

ABBREVIATIONS:
N/D - Not Determined
N/A - Not Applicable

2. PHYSICAL DATA

BOILING POINT:	N/A
VAPOR PRESSURE:	N/A
VAPOR DENSITY (Air=1):	N/A
EVAPORATION RATE (Ether=1):	N/A
APPEARANCE AND ODOR:	Blue paste -- characteristic epoxy odor
SOLUBILITY IN WATER:	Very slight
SP. GRAVITY (Water=1):	0.62
PERCENT VOLATILE:	0%
VISCOSITY:	Paste
pH:	N/A

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3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Closed Cup): >200F
FLAMMABLE LIMITS - LEL: N/A UEL: N/A

EXTINGUISHING MEDIA:
CO2, foam, dry chemical
SPECIAL FIRE FIGHTING PROCEDURES:
Fire fighters should be equipped with self-contained breathing apparatus when fighting fires involving this material.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
None.

4. REACTIVITY DATA

STABILITY: STABLE

INCOMPATIBILITY - MATERIALS TO AVOID:
N/A
HAZARDOUS POLYMERIZATION: MAY NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS:
CO, CO2 and bromine decomposition products when subjected to excessive heat or flame.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:
Observe precautions in all sections. Collect spilled material and cleanup residue using absorbent material as needed. Place in a U.S. Dept. of Transportation approved metal container and seal.
RECOMMENDED DISPOSAL:
TWO-PART SYSTEM: Combine parts ("A" and "B") and allow to fully cure. Completely cured material may be placed in a sanitary landfill in accordance with applicable regulations and authorities.
OTHERWISE: Incinerate "Part B" residue in accordance with local regulations and authorities.
ENVIRONMENTAL DATA:
N/D

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MATERIAL SAFETY
DATA SHEET

6. SUGGESTED FIRST AID

EYE CONTACT:
Flush eyes with large amounts of water for at least 10 minutes. Call a physician.

SKIN CONTACT:
Thoroughly wash affected area with soap and water.

INHALATION:
Provide fresh air. Call a physician.

IF SWALLOWED:
Drink two glasses of milk or water. Call a physician or poison control center.

7. PRECAUTIONARY INFORMATION

Avoid contact with eyes and skin; wear safety glasses and impervious gloves when handling product. Use only in areas with sufficient ventilation to prevent vapor buildup. Avoid breathing vapors. Curing ovens must be vented to the outdoors. Avoid eye contact with or breathing dust from grinding, cutting or sanding operations on the cured material. Wash hands thoroughly before eating or smoking. Remove contaminated clothing and launder before reuse. Keep container closed when not in use. Keep out of the reach of children.

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MATERIAL SAFETY
DATA SHEET

8. HEALTH HAZARD DATA

EYE CONTACT: Irritating to the eyes upon direct contact. Symptoms may include edema, redness, tearing, burning sensation and blurred vision.

SKIN CONTACT: Acute exposure is mildly irritating. Prolonged or repeated contact will produce defatting and resultant dermatitis. May cause an allergic skin reaction in susceptible individuals.

INHALATION: During curing operations, vapors may be irritating to the respiratory system.

INGESTION: May cause digestive system irritation.

The information on this Data Sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this Data Sheet or which involves using the product in combination with any other product or any other process is the responsibility of the user.

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MATERIAL SAFETY DATA SHEET

DIVISION: ADHESIVES, COATINGS AND SEALERS
TRADE NAME: EC-3524 B/A
3M I.D. NUMBER: 62-3524-6101-6 62-3524-6701-3 62-3524-8640-1

ISSUED: APRIL 24, 1987
SUPERSEDES: DECEMBER 3, 1985
DOCUMENT: 10-4961-8

1. INGREDIENTS	C.A.S. NO.	PERCENT	EXPOSURE LIMITS

This product is sold as a kit consisting of two parts --

EC-3524 Part B and EC-3524 Part A;

(Document Nos. 1049592 and 1049600, respectively).

See separate enclosed Material Safety Data Sheets.

SOURCE OF EXPOSURE LIMIT DATA:
1. ACGIH Threshold Limit Values
2. Federal OSHA Permissible Exposure Limit
3. 3M Exposure Guidelines
4. Chemical Manufacturer Recommended Guidelines
5. None Established

ABBREVIATIONS:
N/D - Not Determined
N/A - Not Applicable

2. PHYSICAL DATA

BOILING POINT:
VAPOR PRESSURE:
VAPOR DENSITY (Air=1):
EVAPORATION RATE (Ether=1):
APPEARANCE AND ODOR:
SOLUBILITY IN WATER:
SP. GRAVITY (Water=1):
PERCENT VOLATILE:
VISCOSITY:
pH:

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3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Closed Cup):
FLAMMABLE LIMITS - LEL: UEL:

EXTINGUISHING MEDIA:

SPECIAL FIRE FIGHTING PROCEDURES:

UNUSUAL FIRE AND EXPLOSION HAZARDS:

4. REACTIVITY DATA

STABILITY: STABLE

INCOMPATIBILITY:

HAZARDOUS POLYMERIZATION: MAY NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS:

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

RECOMMENDED DISPOSAL:

ENVIRONMENTAL DATA:

6. SUGGESTED FIRST AID

EYE CONTACT:

SKIN CONTACT:

INHALATION:

IF SWALLOWED:

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7. PRECAUTIONARY INFORMATION

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8. HEALTH HAZARD DATA

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MATERIAL SAFETY
DATA SHEET

DIVISION: ADHESIVES, COATINGS AND SEALERS
TRADE NAME: EC-3524 Part A
3M I.D. NUMBER: 62-3624-0000-0
ISSUED: MAY 3, 1987
SUPERSEDES: DECEMBER 3, 1985
DOCUMENT: 10-4960-0

1. INGREDIENTS	C.A.S. NO.	PERCENT	EXPOSURE LIMITS	
amide	N/A	50.0- 60.0	N/D	5
dimethyl amine substituted phenol	N/A	1.0- 10.0	N/D	5
chlorinated cyclic hydrocarbon resin	N/A	10.0- 20.0	N/D	5
triphenylphosphite	N/A	1.0- 10.0	N/D	5
glass bubbles	N/A	20.0- 30.0	N/D	5

SOURCE OF EXPOSURE LIMIT DATA:
1. ACGIH Threshold Limit Values
2. Federal OSHA Permissible Exposure Limit
3. 3M Exposure Guidelines
4. Chemical Manufacturer Recommended Guidelines
5. None Established

ABBREVIATIONS:
N/D - Not Determined
N/A - Not Applicable

2. PHYSICAL DATA

BOILING POINT:	N/A
VAPOR PRESSURE:	N/A
VAPOR DENSITY (Air=1):	N/A
EVAPORATION RATE (Ether=1):	N/A
APPEARANCE AND ODOR:	White paste -- characteristic amine odor
SOLUBILITY IN WATER:	Very slight
SP. GRAVITY (Water=1):	0.50
PERCENT VOLATILE:	0%
VISCOSITY:	Paste
pH:	N/A

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3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Closed Cup): >200F
FLAMMABLE LIMITS - LEL: N/A UEL: N/A

EXTINGUISHING MEDIA:
CO2, foam, dry chemical
SPECIAL FIRE FIGHTING PROCEDURES:
Fire fighters should be equipped with self-contained breathing apparatus when handling this material.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
None.

4. REACTIVITY DATA

STABILITY: STABLE

INCOMPATIBILITY - MATERIALS TO AVOID:
N/A
HAZARDOUS POLYMERIZATION: MAY NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS:
CO, CO2 plus nitrogen and chlorine containing compounds when subjected to excessive heat or flame.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:
Observe precautions in all sections. Collect spilled material and cleanup residue using absorbent material as needed. Place in a U.S. Dept. of Transportation approved metal container and seal.
RECOMMENDED DISPOSAL:
TWO-PART SYSTEM: Combine parts ("A" and "B") and allow to fully cure. Completely cured material may be placed in a sanitary landfill in accordance with applicable regulations and authorities.
OTHERWISE: Incinerate "Part A" in accordance with local regulations and authorities.
ENVIRONMENTAL DATA:
N/D

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6. SUGGESTED FIRST AID

EYE CONTACT:
Flush eyes with large amounts of water for at least 10 minutes. Call a physician.

SKIN CONTACT:
Thoroughly wash affected area with soap and water.

INHALATION:
Provide fresh air. Call a physician.

IF SWALLOWED:
Drink two glasses of milk or water. Call a physician or poison control center.

7. PRECAUTIONARY INFORMATION

Prevent contact with eyes and skin; wear safety glasses and impervious gloves when handling product. Wash hands thoroughly before eating or smoking. Launder contaminated clothing before reuse. Use only in well ventilated areas. Avoid breathing vapors from curing operations; curing ovens must be vented to the outdoors. Avoid eye contact with or breathing dust from grinding, sanding or cutting operations on the cured material. Wear safety glasses and a dust mask. Keep container closed when not in use. Keep out of the reach of children.

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8. HEALTH HAZARD DATA

EYE CONTACT: May be irritating to the eyes upon direct contact. Symptoms may include edema, redness, tearing, burning sensation and blurred vision.

SKIN CONTACT: Acute exposure is mildly irritating. Prolonged or repeated contact will produce defatting and resultant dermatitis. May cause an allergic skin reaction in susceptible individuals.

INHALATION: During curing operations, vapors may be irritating to the respiratory system.

INGESTION: May cause digestive system irritation.

The information on this Data Sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this Data Sheet or which involves using the product in combination with any other product or any other process is the responsibility of the user.

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cRIAL SAFETY ATA SHEET

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Form 15593-C PWO

DUNS NO.. 00 617-3082

Chemical Family	Trade Name
62-5364-1041-8(black) 62-5365-1041-5(white) 62-5366-1041-3(gray)	3M Brand Strip Caulk (P.No. 8568, 8575, 8578)
3M I D Number	ACAS Division

1. INGREDIENTS

	CAS. #	%	TLVe (unit)
Asbestos (bound)		- 25	2 fibers>5 um/cc
Calcium carbonate, polybutene, petroleum hydrocarbon, metamorphic rock, aluminum stearate, antioxidant		68-75	
Titanium dioxide		0-~ 8	
Carbon black		0-< 1	

2. PHYSICAL DATA

Boiling Point	N.A.	Solubility in Water	Very slight
Vapor Pressure	N.A.	Specific Gravity (H_2O=1)	1.56
Vapor Density (Air = 1)	N.A.	Percent Volatile	0
Evaporation Rate (ether =1)	N.A.	pH	N.A.

Appearance and Odor: Solid, black, white and gray

3. FIRE AND EXPLOSION HAZARD DATA

Flash Point (Test Method): Over 200° F.

Flammable Limits: LEL = N.A. UEL = N.A.

Extinguishing Media: CO_2, foam, dry chemical

Special Fire Fighting Procedures: None

Unusual Fire and Explosion Hazards: None

4. ENVIRONMENTAL INFORMATION

Spill Response

Not applicable.

Recommended Disposal

Used or damaged product may be disposed in sanitary landfill in accordance with local regulations. Incinerate only in commercial incinerators that will remove asbestos fibers.

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15593-C PWO

DUNS NO.. 00 617-3082

Chemical Family / 3M I D Number	62-5364-1041-8(black) 62-5365-1041-5(white) 62-5366-1041-3(gray)
Trade Name	3M Brand Strip Caulk (P.No. 8568, 8575, 8578)
	ACAS Division

1. INGREDIENTS

	CAS. #	%	TLVe (unit)
Asbestos (bound)		~ 25	2 fibers>5 um/cc
Calcium carbonate, polybutene, petroleum hydrocarbon, metamorphic rock, aluminum stearate, antioxidant		68-75	
Titanium dioxide		0-~ 8	
Carbon black		0-< 1	

2. PHYSICAL DATA

Boiling Point	N.A.	Solubility in Water	Very slight
Vapor Pressure	N.A.	Specific Gravity (H_2O=1)	1.56
Vapor Density (Air = 1)	N.A.	Percent Volatile	0
Evaporation Rate (ether =1)	N.A.	pH	N.A.

Appearance and Odor: Solid, black, white and gray

3. FIRE AND EXPLOSION HAZARD DATA

Flash Point (Test Method): Over 200° F.

Flammable Limits: LEL = N.A. UEL = N.A.

Extinguishing Media: CO_2, foam, dry chemical

Special Fire Fighting Procedures: None

Unusual Fire and Explosion Hazards: None

4. ENVIRONMENTAL INFORMATION

Spill Response

Not applicable.

Recommended Disposal

Used or damaged product may be disposed in sanitary landfill in accordance with local regulations. Incinerate only in commercial incinerators that will remove asbestos fibers.

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MATERIAL SAFETY
DATA SHEET

DIVISION: ADHESIVES, COATINGS AND SEALERS
TRADE NAME: EC-3524 Part A
3M I.D. NUMBER: 62-3624-0000-0
ISSUED: MAY 3, 1987
SUPERSEDES: DECEMBER 3, 1985
DOCUMENT: 10-4960-0

1. INGREDIENTS	C.A.S. NO.	PERCENT	EXPOSURE LIMITS	
amide	N/A	50.0- 60.0	N/D	5
dimethyl amine substituted phenol	N/A	1.0- 10.0	N/D	5
chlorinated cyclic hydrocarbon resin	N/A	10.0- 20.0	N/D	5
triphenylphosphite	N/A	1.0- 10.0	N/D	5
glass bubbles	N/A	20.0- 30.0	N/D	5

SOURCE OF EXPOSURE LIMIT DATA:
1. ACGIH Threshold Limit Values
2. Federal OSHA Permissible Exposure Limit
3. 3M Exposure Guidelines
4. Chemical Manufacturer Recommended Guidelines
5. None Established

ABBREVIATIONS:
N/D - Not Determined
N/A - Not Applicable

2. PHYSICAL DATA

BOILING POINT:	N/A
VAPOR PRESSURE:	N/A
VAPOR DENSITY (Air=1):	N/A
EVAPORATION RATE (Ether=1):	N/A
APPEARANCE AND ODOR:	White paste -- characteristic amine odor
SOLUBILITY IN WATER:	Very slight
SP. GRAVITY (Water=1):	0.50
PERCENT VOLATILE:	0%
VISCOSITY:	Paste
pH:	N/A

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3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Closed Cup): >200F
FLAMMABLE LIMITS - LEL: N/A UEL: N/A

EXTINGUISHING MEDIA:
CO2, foam, dry chemical
SPECIAL FIRE FIGHTING PROCEDURES:
Fire fighters should be equipped with self-contained breathing apparatus when handling this material.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
None.

4. REACTIVITY DATA

STABILITY: STABLE

INCOMPATIBILITY - MATERIALS TO AVOID:
N/A
HAZARDOUS POLYMERIZATION: MAY NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS:
CO, CO2 plus nitrogen and chlorine containing compounds when subjected to excessive heat or flame.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:
Observe precautions in all sections. Collect spilled material and cleanup residue using absorbent material as needed. Place in a U.S. Dept. of Transportation approved metal container and seal.
RECOMMENDED DISPOSAL:
TWO-PART SYSTEM: Combine parts ("A" and "B") and allow to fully cure. Completely cured material may be placed in a sanitary landfill in accordance with applicable regulations and authorities.
OTHERWISE: Incinerate "Part A" in accordance with local regulations and authorities.
ENVIRONMENTAL DATA:
N/D

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6. SUGGESTED FIRST AID

EYE CONTACT:
Flush eyes with large amounts of water for at least 10 minutes. Call a physician.

SKIN CONTACT:
Thoroughly wash affected area with soap and water.

INHALATION:
Provide fresh air. Call a physician.

IF SWALLOWED:
Drink two glasses of milk or water. Call a physician or poison control center.

7. PRECAUTIONARY INFORMATION

Prevent contact with eyes and skin; wear safety glasses and impervious gloves when handling product. Wash hands thoroughly before eating or smoking. Launder contaminated clothing before reuse. Use only in well ventilated areas. Avoid breathing vapors from curing operations; curing ovens must be vented to the outdoors. Avoid eye contact with or breathing dust from grinding, sanding or cutting operations on the cured material. Wear safety glasses and a dust mask. Keep container closed when not in use. Keep out of the reach of children.

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DATA SHEET

8. HEALTH HAZARD DATA

EYE CONTACT: May be irritating to the eyes upon direct contact. Symptoms may include edema, redness, tearing, burning sensation and blurred vision.

SKIN CONTACT: Acute exposure is mildly irritating. Prolonged or repeated contact will produce defatting and resultant dermatitis. May cause an allergic skin reaction in susceptible individuals.

INHALATION: During curing operations, vapors may be irritating to the respiratory system.

INGESTION: May cause digestive system irritation.

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MATERIAL SAFETY
DATA SHEET

DIVISION: ADHESIVES, COATINGS AND SEALERS
TRADE NAME: EC-3524 Part B
3M I.D. NUMBER: 62-3524-9501-4
ISSUED: APRIL 24, 1987
SUPERSEDES: DECEMBER 3, 1985
DOCUMENT: 10-4959-2

1. INGREDIENTS	C.A.S. NO.	PERCENT	EXPOSURE LIMITS	
glass bubbles	N/A	20.0- 30.0	N/D	5
epichlorohydrin/bisphenol A epoxy resin blend and brominated epoxy resin blend	N/A Mixture	70.0- 80.0	N/D	5
antimony trioxide	1309-64-4	1.0- 10.0	0.5 mg/m3	1

SOURCE OF EXPOSURE LIMIT DATA:
1. ACGIH Threshold Limit Values
2. Federal OSHA Permissible Exposure Limit
3. 3M Exposure Guidelines
4. Chemical Manufacturer Recommended Guidelines
5. None Established

ABBREVIATIONS:
N/D - Not Determined
N/A - Not Applicable

2. PHYSICAL DATA

BOILING POINT:	N/A
VAPOR PRESSURE:	N/A
VAPOR DENSITY (Air=1):	N/A
EVAPORATION RATE (Ether=1):	N/A
APPEARANCE AND ODOR:	Blue paste -- characteristic epoxy odor
SOLUBILITY IN WATER:	Very slight
SP. GRAVITY (Water=1):	0.62
PERCENT VOLATILE:	0%
VISCOSITY:	Paste
pH:	N/A

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3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Closed Cup): >200F
FLAMMABLE LIMITS - LEL: N/A UEL: N/A

EXTINGUISHING MEDIA:
CO2, foam, dry chemical
SPECIAL FIRE FIGHTING PROCEDURES:
Fire fighters should be equipped with self-contained breathing apparatus when fighting fires involving this material.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
None.

4. REACTIVITY DATA

STABILITY: STABLE

INCOMPATIBILITY - MATERIALS TO AVOID:
N/A
HAZARDOUS POLYMERIZATION: MAY NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS:
CO, CO2 and bromine decomposition products when subjected to excessive heat or flame.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:
Observe precautions in all sections. Collect spilled material and cleanup residue using absorbent material as needed. Place in a U.S. Dept. of Transportation approved metal container and seal.
RECOMMENDED DISPOSAL:
TWO-PART SYSTEM: Combine parts ("A" and "B") and allow to fully cure. Completely cured material may be placed in a sanitary landfill in accordance with applicable regulations and authorities.
OTHERWISE: Incinerate "Part B" residue in accordance with local regulations and authorities.
ENVIRONMENTAL DATA:
N/D

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6. SUGGESTED FIRST AID

EYE CONTACT:
Flush eyes with large amounts of water for at least 10 minutes. Call a physician.

SKIN CONTACT:
Thoroughly wash affected area with soap and water.

INHALATION:
Provide fresh air. Call a physician.

IF SWALLOWED:
Drink two glasses of milk or water. Call a physician or poison control center.

7. PRECAUTIONARY INFORMATION

Avoid contact with eyes and skin; wear safety glasses and impervious gloves when handling product. Use only in areas with sufficient ventilation to prevent vapor buildup. Avoid breathing vapors. Curing ovens must be vented to the outdoors. Avoid eye contact with or breathing dust from grinding, cutting or sanding operations on the cured material. Wash hands thoroughly before eating or smoking. Remove contaminated clothing and launder before reuse. Keep container closed when not in use. Keep out of the reach of children.

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8. HEALTH HAZARD DATA

EYE CONTACT: Irritating to the eyes upon direct contact. Symptoms may include edema, redness, tearing, burning sensation and blurred vision.

SKIN CONTACT: Acute exposure is mildly irritating. Prolonged or repeated contact will produce defatting and resultant dermatitis. May cause an allergic skin reaction in susceptible individuals.

INHALATION: During curing operations, vapors may be irritating to the respiratory system.

INGESTION: May cause digestive system irritation.

The information on this Data Sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this Data Sheet or which involves using the product in combination with any other product or any other process is the responsibility of the user.

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MATERIAL SAFETY
DATA SHEET

DIVISION: ADHESIVES, COATINGS AND SEALERS
TRADE NAME: EC-3524 B/A
3M I.D. NUMBER: 62-3524-6101-6 62-3524-6701-3 62-3524-8640-1

ISSUED: APRIL 24, 1987
SUPERSEDES: DECEMBER 3, 1985
DOCUMENT: 10-4961-8

1. INGREDIENTS	C.A.S. NO.	PERCENT	EXPOSURE LIMITS

This product is sold as a kit consisting of two parts --

EC-3524 Part B and EC-3524 Part A;

(Document Nos. 1049592 and 1049600, respectively).

See separate enclosed Material Safety Data Sheets.

SOURCE OF EXPOSURE LIMIT DATA:
1. ACGIH Threshold Limit Values
2. Federal OSHA Permissible Exposure Limit
3. 3M Exposure Guidelines
4. Chemical Manufacturer Recommended Guidelines
5. None Established

ABBREVIATIONS:
N/D - Not Determined
N/A - Not Applicable

2. PHYSICAL DATA

BOILING POINT:
VAPOR PRESSURE:
VAPOR DENSITY (Air=1):
EVAPORATION RATE (Ether=1):
APPEARANCE AND ODOR:
SOLUBILITY IN WATER:
SP. GRAVITY (Water=1):
PERCENT VOLATILE:
VISCOSITY:
pH:

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3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Closed Cup):
FLAMMABLE LIMITS - LEL: UEL:

EXTINGUISHING MEDIA:

SPECIAL FIRE FIGHTING PROCEDURES:

UNUSUAL FIRE AND EXPLOSION HAZARDS:

4. REACTIVITY DATA

STABILITY: STABLE

INCOMPATIBILITY:

HAZARDOUS POLYMERIZATION: MAY NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS:

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

RECOMMENDED DISPOSAL:

ENVIRONMENTAL DATA:

6. SUGGESTED FIRST AID

EYE CONTACT:

SKIN CONTACT:

INHALATION:

IF SWALLOWED:

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7. PRECAUTIONARY INFORMATION

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8. HEALTH HAZARD DATA

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MATERIAL SAFETY
DATA SHEET

3M

DIVISION: Engineering Systems
TRADE NAME: 3M Brand Type 152 Developer Premix
3M I.D. NUMBER: 78-6969-5889-7
ISSUED: SEPTEMBER 2, 1987
SUPERSEDES: JULY 15, 1987
DOCUMENT: 10-3577-3

1. INGREDIENTS

INGREDIENTS	C.A.S. NO.	PERCENT	EXPOSURE LIMITS	
Iron Particles	7439-89-6	85.0- 95.0	N/D	5
Styrene-Acrylic/Polyester Resin	N/D	2.0- 10.0	N/D	5
Polypropylene Wax	N/D	0.1- 1.0	N/D	5
Carbon Black	1333-86-4	0.1- 1.0	3.5mg/m3	1
Nigrosine Dye	N/D	0.1- 1.0	N/D	5
Amorphous Silica	7631-86-9	0.0- 0.1	10mg/m3	1
3M Standard for Toner Emissions for Cleanliness	N/D	0.0	0.4mg/m3	3

SOURCE OF EXPOSURE LIMIT DATA
1. ACGIH THRESHOLD LIMIT VALUES
2. FEDERAL OSHA PERMISSIBLE EXPOSURE LIMIT
3. 3M EXPOSURE GUIDELINES
4. CHEMICAL MANUFACTURER RECOMMENDED GUIDELINES
5. NONE ESTABLISHED

ABBREVIATIONS
N/D - NOT DETERMINED
N/A - NOT APPLICABLE

2. PHYSICAL DATA

BOILING POINT: N/A
VAPOR PRESSURE: N/A
VAPOR DENSITY (AIR=1): N/A
EVAPORATION RATE (= 1): N/A
SOLUBILITY IN WATER: Insoluble
SP. GRAVITY (WATER=1): 2.7
PERCENT VOLATILE: 0
VISCOSITY: N/A
pH: N/A
APPEARANCE AND ODOR: Fine black powder, acrylic odor

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MATERIAL SAFETY
DATA SHEET

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT ( ): N/A
FLAMMABLE LIMITS - LEL: N/A UEL: N/A

EXTINGUISHING MEDIA:
Water, CO2, Foam, Dry Chemical
SPECIAL FIRE FIGHTING PROCEDURES:
None
UNUSUAL FIRE AND EXPLOSION HAZARDS:
None

4. REACTIVITY DATA

STABILITY: STABLE

INCOMPATIBILITY - MATERIALS TO AVOID:
Not determined
HAZARDOUS POLYMERIZATION: MAY NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS:
Not determined

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:
Observe precautionary information from other sections. Vacuum or sweep up spilled material.
RECOMMENDED DISPOSAL:
Dispose of in sanitary landfill in accordance with applicable regulations.
ENVIRONMENTAL DATA:
Not determined.

6. SUGGESTED FIRST AID

EYE CONTACT:
In case of eye contact, flush eyes with plenty of water and contact a physician.
SKIN CONTACT:
N/A
INHALATION:
If respiratory irritation or other symptoms occur, move to fresh air.
IF SWALLOWED:
N/A

MATERIAL SAFETY DATA SHEET

SECTION I

U

PRODUCT NAME:	PR-1422 A-2, Part A	MSDS IDENTIFICATION NO:	MS3102C04
DESCRIPTION:	Inorganic Dichromate Solution.	DATE OF ISSUE:	03-01-88
		REPLACES:	MS3102C03
MANUFACTURER:	Products Research & Chemical Corporation	PREPARED BY:	AS
EMERGENCY TELEPHONE:	5430 San Fernando Road, P.O. Box 1800, Glendale, CA 91209 (818) 240-2060		

SECTION II - HAZARDOUS INGREDIENTS

CHEMICAL NAME	COMMON NAME	CAS NO	OSHA PEL	ACGIH TLV TWA	ACGIH TLV STEL
Dimethyl Acetamide	DMAC	127-19-5	10 ppm	10 ppm (Skin)	Not Est.
Calcium Dichromate	Calcium Dichromate	14307-33-6	0.5 mg/M^3	0.05 mg/M^3	Not Est.
Magnesium Dichromate	Magnesium Dichromate	13423-61-5	0.5 mg/M^3	0.05 mg/M^3	Not Est.

SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point, °F.:	Unk.	Specific Gravity:	1.45
Vapor Pressure, mm Hg:	Unk.		
Vapor Density:	Unk.	Evaporation Rate:	Unk.
Solubility in Water:	Complete.		

SECTION VI - EMERGENCY FIRST AID PROCEDURES

Eyes:	Flush with luke warm water for 15 minutes, consult physician.
Skin:	Wash with soap and water. If symptoms persist, consult a physician.
Inhalation:	Remove to fresh air. If symptoms are present consult a physician.
Ingestion:	Consult a physician.

SECTION VII - SUGGESTED CONTROL PROCEDURES

Ventilation:	General ventilation to maintain vapor below PEL.
Skin Protection:	"Nitrile, butyl or natural rubber gloves for occasional contact. Gloves are not adequate protection for immersion. Skin areas subject to splash should be protected with nitrile, butyl or natural rubber, or polyethylene apron or coveralls."
Eye Protection:	Chemical goggles, or if a splash hazard exists, full-face shield.

SECTION VIII - SPILL OR LEAKAGE PROCEDURES

Release or Spillage:	Dike and cover the spill with a non-oxidizable absorbant. Scoop into container. Sprinkle sodium thiosulfate on residue. Work into residue. Scoop into disposal container. Clean area with water.
Waste Disposal:	EPA Waste No. D-007. Dispose of spillage in compliance with Federal and State regulations.

SECTION IX - SPECIAL PRECAUTIONS

Wash thoroughly after handling and before smoking or eating. Avoid ingestion. Due to toxicity by skin absorption, avoid all skin contact.

The information provided herein is, to the best of the manufacturer's knowledge, current, accurate and complete, based on information reasonably available.

MATERIAL SAFETY DATA SHEET

SECTION I

U

PRODUCT NAME:	PR-1422 B-1/2, Part A	MSDS IDENTIFICATION NO:	MS3138B05
		DATE OF ISSUE:	02-29-88
DESCRIPTION:	Inorganic Dichromate Solution.	REPLACES:	MS3138B04
		PREPARED BY:	AS
MANUFACTURER:	Products Research & Chemical Corporation 5430 San Fernando Road, P.O. Box 1800, Glendale, CA 91209		
EMERGENCY TELEPHONE:	(818) 240-2060		

SECTION II - HAZARDOUS INGREDIENTS

CHEMICAL NAME	COMMON NAME	CAS NO	OSHA PEL	ACGIH TLV TWA	ACGIH TLV STEL
Dimethyl Acetamide	DMAC	127-19-5	10 ppm	10 ppm (Skin)	Not Est.
Calcium Dichromate	Calcium Dichromate	14307-33-6	0.5 mg/M^3	0.05 mg/M^3	Not Est.
Octylphenoxypolyethoxy-Ethanol	Surfactant	9002-93-1	Not Est.	Not Est.	Not Est.

SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point, °F.:	Unk.	Specific Gravity:	1.38
Vapor Pressure, mm Hg:	Unk.		
Vapor Density:	Unk.	Evaporation Rate:	Unk.
Solubility in Water:	Complete.		

SECTION VI - EMERGENCY FIRST AID PROCEDURES

Eyes:	Flush with luke warm water for 15 minutes, consult physician.
Skin:	Wash with soap and water. If symptoms persist, consult a physician.
Inhalation:	Remove to fresh air. If symptoms are present consult a physician.
Ingestion:	Consult a physician.

SECTION VII - SUGGESTED CONTROL PROCEDURES

Ventilation:	General ventilation to maintain vapor below PEL.
Skin Protection:	"Nitrile, butyl or natural rubber gloves for occasional contact. Gloves are not adequate protection for immersion. Skin areas subject to splash should be protected with nitrile, butyl or natural rubber, or polyethylene apron or coveralls."
Eye Protection:	Chemical goggles, or if a splash hazard exists, full-face shield.

SECTION VIII - SPILL OR LEAKAGE PROCEDURES

Release or Spillage:	Dike and cover the spill with a non-oxidizable absorbant. Scoop into container. Sprinkle sodium thiosulfate on residue. Work into residue. Scoop into disposal container. Clean area with water.
Waste Disposal:	EPA Waste No. D-007. Dispose of spillage in compliance with Federal and State regulations.

SECTION IX - SPECIAL PRECAUTIONS

Wash thoroughly after handling and before smoking or eating. Avoid ingestion. Due to toxicity by skin absorption, avoid all skin contact.

The information provided herein is, to the best of the manufacturer's knowledge, current, accurate and complete, based on information reasonably available.

MATERIAL SAFETY DATA SHEET

SECTION I

U

PRODUCT NAME:	PR-1431-G, Type I, Part B	MSDS IDENTIFICATION NO:	MS0045C03
		DATE OF ISSUE:	02-29-88
DESCRIPTION:	Polysulfide Rubber Compound.	REPLACES:	MS0045C02
		PREPARED BY:	AS
MANUFACTURER:	Products Research & Chemical Corporation		
EMERGENCY TELEPHONE:	5430 San Fernando Road, P.O. Box 1800, Glendale, CA 91209 (818) 240-2060		

SECTION II - HAZARDOUS INGREDIENTS

CHEMICAL NAME	COMMON NAME	CAS NO	OSHA PEL	ACGIH TLV TWA	ACGIH TLV STEL
Phenol Polymer with Formaldehyde	Phenolic Resin	9003-35-4	Not Est.	Not Est.	Not Est.
Isopropylidenediphenol-epichlorohydrin resin	Epoxy Resin	25068-38-6	Not Est.	Not Est.	Not Est.
Methyl Benzene	Toluene	108-88-3	200 ppm	100 ppm	150 ppm
Magnesium Chromate	Magnesium Chromate	13423-61-5	0.5 mg/M^3	0.05 mg/M^3	Not Est.

SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point, °F.:	Unk.	Specific Gravity:	1.43
Vapor Pressure, mm Hg:	Unk.	VOC, g/l (Mixed):	39
Vapor Density:	3.2 (Toluene).	Evaporation Rate:	2 (Toluene)
Solubility in Water:	Negligible.		

SECTION VI - EMERGENCY FIRST AID PROCEDURES

Eyes:	Flush with luke warm water for 15 minutes. If symptoms persist, consult physician.
Skin:	Wash with soap and water. If symptoms persist, consult a physician.
Inhalation:	Remove to fresh air. If symptoms are present consult a physician.
Ingestion:	Consult a physician.

SECTION VII - SUGGESTED CONTROL PROCEDURES

Ventilation:	General ventilation to maintain vapors below PEL. When applying in confined areas, or in other circumstances likely to produce airborne levels of solvent in excess of PEL, use an organic vapor cartridge respirator or air-supplied respirator.
Skin Protection:	Solvent resistant gloves.
Eye Protection:	Safety glasses.

SECTION VIII - SPILL OR LEAKAGE PROCEDURES

Release or Spillage:	Remove all ignition sources. Cover with absorbant. Scoop into containers. Clean-up residue with 1,1,1 -trichloroethane.
Waste Disposal:	EPA Waste No. D-007. Dispose of spillage in compliance with Federal and State regulations.

SECTION IX - SPECIAL PRECAUTIONS

...ash thoroughly after handling and before smoking or eating. Avoid ingestion.

SECTION X - TRANSPORTATION DATE

Proper Shipping Name:	Cement
Dot Classification:	Flammable liquid.
Dot Label:	Flammable.
Identification No.:	NA1133

The information provided herein is, to the best of the manufacturer's knowledge, current, accurate and complete, based on information reasonably available.

MATERIAL SAFETY DATA SHEET

SECTION I

U

PRODUCT NAME:	PR-1431-G Type II, Type III, Type IV, Part B	MSDS IDENTIFICATION NO:	MS0522B03
		DATE OF ISSUE:	02-29-88
DESCRIPTION:	Polysulfide Rubber Compound.	REPLACES:	MS0522B02
		PREPARED BY:	AS
MANUFACTURER:	Products Research & Chemical Corporation 5430 San Fernando Road, P.O. Box 1800, Glendale, CA 91209		
EMERGENCY TELEPHONE:	(818) 240-2060		

SECTION II - HAZARDOUS INGREDIENTS

CHEMICAL NAME	COMMON NAME	CAS NO	OSHA PEL	ACGIH TLV TWA	ACGIH TLV STEL
Methyl Benzene	Toluene	108-88-3	200 ppm	100 ppm	150 ppm
Phenol Polymer with formaldehyde	Phenolic Resin	9003-35-4	Not Est.	Not Est.	Not Est.
4,4'-Isopropylidenediphenol Epichorohydrin Resin	Epoxy Resin	25068-38-6	Not Est.	Not Est.	Not Est.
Magnesium Chromate	Magnesium Chromate	13423-61-5	0.5 mg/M^3	0.05 mg/M^3	Not Est.

SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point, °F.:	Unk.	Specific Gravity:	1.45
Vapor Pressure, mm Hg:	Unk.	VOC, g/l (Mixed):	56
Vapor Density:	3.2 (Toluene).	Evaporation Rate:	2.0 (Toluene).
Solubility in Water:	Negligible.		

SECTION VI - EMERGENCY FIRST AID PROCEDURES

Eyes:	Flush with luke warm water for 15 minutes. If symptoms persist, consult physician.
Skin:	Wash with soap and water. If symptoms persist, consult a physician.
Inhalation:	Remove to fresh air. If symptoms are present consult a physician.
Ingestion:	Consult a physician.

SECTION VII - SUGGESTED CONTROL PROCEDURES

Ventilation:	General ventilation to maintain vapors below PEL. When applying in confined areas, or in other circumstances likely to produce airborne levels of solvent in excess of PEL, use an organic vapor cartridge respirator or air-supplied respirator.
Skin Protection:	Solvent resistant gloves.
Eye Protection:	Safety glasses.

SECTION VIII - SPILL OR LEAKAGE PROCEDURES

Release or Spillage:	Remove all ignition sources. Wear air-supplied respirator for major unventilated spill. Scoop into containers. Clean-up residue with 1,1,1 -trichloroethane.
Waste Disposal:	EPA Waste No. D-001. Dispose of spillage in compliance with Federal and State regulations.

SECTION IX - SPECIAL PRECAUTIONS

None.

The information provided herein is, to the best of the manufacturer's knowledge, current, accurate and complete, based on information reasonably available.

MATERIAL SAFETY DATA SHEET

SECTION I

PRODUCT NAME:	PR-1436-G A-2, Part A	MSDS IDENTIFICATION NO:	MS3125B02
		DATE OF ISSUE:	02-29-88
		REPLACES:	MS3125B01
DESCRIPTION:	Inorganic Dichromate Solution.	PREPARED BY:	AS
MANUFACTURER:	Products Research & Chemical Corporation 5430 San Fernando Road, P.O. Box 1800, Glendale, CA 91209		
EMERGENCY TELEPHONE:	(818) 240-2060		

SECTION II - HAZARDOUS INGREDIENTS

CHEMICAL NAME	COMMON NAME	CAS NO	OSHA PEL	ACGIH TLV TWA	ACGIH TLV STEL
Dimethylacetamide	DMAC	127-19-5	10 ppm	10 ppm (Skin)	Not Est.
Calcium Dichromate	Calcium Dichromate	14307-33-6	0.5 mg/M^3	0.5 mg/M^3	Not Est.
Octylphenoxypolyethoxyethanol	Octylphenoxypolyethoxy-ethanol	9036-19-5	Not Est.	Not Est.	Not Est.

SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point, °F.:	Unk.	Specific Gravity:	1.26
Vapor Pressure, mm Hg:	Unk.		
Vapor Density:	Unk.	Evaporation Rate:	Unk.
Solubility in Water:	Appreciable.		

General Offices
3M Center
St. Paul, Minnesota 55144-1000
(612) 733-1110

MATERIAL SAFETY
DATA SHEET

7. PRECAUTIONARY INFORMATION

Avoid eye contact.
Avoid prolonged or repeated breathing of dust.
Keep out of reach of children.

General Offices,
3M Center
St. Paul, Minnesota 55144-1000
(612) 733-1110

MATERIAL SAFETY
DATA SHEET

8. HEALTH HAZARD DATA

EYE CONTACT: Dust may cause slight eye irritation.

SKIN CONTACT: No adverse health effects are expected.

INHALATION: Dust may cause slight upper respiratory system irritation.

INGESTION: No adverse health effects are expected.

The information on this Data Sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this Data Sheet or which involves using the product in combination with any other product or any other process is the responsibility of the user.

General Offices
3M Center
St. Paul, Minnesota 55144-1000
(612) 733-1110

MATERIAL SAFETY
DATA SHEET

3M

DIVISION: Engineering Systems
TRADE NAME: 3M Brand Type 148 Toner
3M I.D. NUMBER: 78-6969-5888-9
ISSUED: SEPTEMBER 15, 1986
SUPERSEDES: DECEMBER 1, 1985
DOCUMENT: 10-3576-5

1. INGREDIENTS

INGREDIENTS	C.A.S. NO.	PERCENT	EXPOSURE LIMITS	
Styrene Acrylate/Polyester Resin	N/D	80.0- 90.0	None Est.	5
Polypropylene Wax	9003-07-0	2.0- 10.0	None Est.	5
Carbon Black	1333-86-4	1.0- 8.0	3.5mg/m3	1
Nigrosine Dye	8005-02-5	1.0- 8.0	None Est.	5
Amorphous Silica	7631-86-9	0.1- 2.0	10mg/m3	1

SOURCE OF EXPOSURE LIMIT DATA
1. ACGIH THRESHOLD LIMIT VALUES
2. FEDERAL OSHA PERMISSIBLE EXPOSURE LIMIT
3. 3M EXPOSURE GUIDELINES
4. CHEMICAL MANUFACTURER RECOMMENDED GUIDELINES
5. NONE ESTABLISHED

ABBREVIATIONS
N/D - NOT DETERMINED
N/A - NOT APPLICABLE

2. PHYSICAL DATA

BOILING POINT:	N/A	SOLUBILITY IN WATER:	N/A
VAPOR PRESSURE:	N/A	SP. GRAVITY (WATER=1):	0.32
VAPOR DENSITY (AIR=1):	N/A	PERCENT VOLATILE:	0
EVAPORATION RATE (=1):	N/A	VISCOSITY:	N/A
APPEARANCE AND ODOR:	Fine black powder, acrylic odor		pH: N/A

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT ( ): N/A
FLAMMABLE LIMITS - LEL: N/A UEL: N/A

EXTINGUISHING MEDIA:
CO2, Foam, Dry Chemical
SPECIAL FIRE FIGHTING PROCEDURES:
None

General Offices.
3M Center
St. Paul, Minnesota 55144-1000
(612) 733-1110

MATERIAL SAFETY
DATA SHEET

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Due to fine particle size, possible explosive if dispersed in air in high concentrations.

4. REACTIVITY DATA

STABILITY: STABLE

INCOMPATIBILITY - MATERIALS TO AVOID:
None
HAZARDOUS POLYMERIZATION: MAY NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS:
Styrene Monomer, CO, CO2

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:
Observe precautionary information from other sections. Vacuum or sweep up spilled material being careful not to make the powder airborne. Be cautious walking on the powder, slip hazard.
RECOMMENDED DISPOSAL:
Incinerate or dispose of in sanitary landfill in accordance with applicable regulations.
ENVIRONMENTAL DATA:
Not determined.

6. SUGGESTED FIRST AID

EYE CONTACT:
In case of eye contact, flush eyes with plenty of water.
SKIN CONTACT:
N/A
INHALATION:
N/A
IF SWALLOWED:
N/A

7. PRECAUTIONARY INFORMATION

Avoid eye contact. Keep away from heat, sparks, flames, and other sources of ignition if dusting may occur.

General Offices
3M Center
St. Paul, Minnesota 55144-1000
(612) 733-1110

MATERIAL SAFETY
DATA SHEET

8. HEALTH HAZARD DATA

EYE CONTACT: May cause slight eye irritation. (The product was practically non-irritating when tested in laboratory animals.)

SKIN CONTACT: No adverse health effects are expected. (The product was non-irritating when tested in laboratory animals.)

INHALATION: No adverse health effects are expected. (The product was practically non-toxic when tested in laboratory animals.)

INGESTION: No adverse health effects are expected.

The information on this Data Sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this Data Sheet or which involves using the product in combination with any other product or any other process is the responsibility of the user.

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 02-23-1988

SECTION I

MANUFACTURER	U. S. PAINT DIVISION OF GROW GROUP, INCORPORATED 831 S. 21st Street St. Louis, Missouri 63103
INFORMATION	(314) 621-0525
EMERGENCY	CHEMTREC --- 1-800-424-9300
PRODUCT CLASS	MODIFIED POLYESTER RESIN
TRADE NAME	AWLGRIP® Duranodic Polyester Topcoat
CODE	DURANODIC Lead Free (H1047, H2011, H6013)

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20°C)
TOLUENE METHYL BENZENE CAS #108883	5-6	100	200	23
ETHYL ACETATE ETHYL ETHANOATE CAS #141786	20-24	400	400	86
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE 1-METHOXY 2-ACETYL PROPANE CAS #108-65-6	34-39	NE	NE	4
XYLENE DIMETHYL BENZENE CAS #1330207	3	100	100	10
PETROLEUM DISTILLATES ODORLESS MINERAL SPIRITS CAS #64742-48-9	0-2	100	500	2
METHYL ISOBUTYL KETONE 4-METHYL 2-PENTANONE CAS #108101	0-1	50	100	15

* Values given are in mg/M³.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M³.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 8.39-8.55 lbs. VOLUME PERCENT VOLATILE 77-78

BOILING RANGE 168°F — 395°F VOC OF MATERIAL 711-723 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY ——— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.
VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 24°F TCC LEL 1.00

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters. During a fire, toxic gases and smoke are irritants present from decomposition/combustion. Closed containers may explode when exposed to extreme heat.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, sore throat, abdominal pain, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC)

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Can cause irritation to mucous membranes.
—Inhalation of concentrated vapors causes intoxication resembling that from alcohol.
—Lassitude, loss of appetite, and a bad taste may be noted at high concentrations.
—Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.
—Hemorrhages into various vital organs have been noted.
—Narcotic effects have been noted.
—May cause injury to kidneys and liver.
—Corneal effects may occur.
—Coma may result from overexposure.

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 02-18-1988

SECTION I

MANUFACTURER U. S. PAINT
DIVISION OF GROW GROUP, INCORPORATED
831 S. 21st Street
St. Louis, Missouri 63103

INFORMATION (314) 621-0525

EMERGENCY CHEMTREC --- 1-800-424-9300

PRODUCT CLASS MODIFIED PHENOLIC RESIN

TRADE NAME AWLGRIP® AWL-SPAR® VARNISH

CODE M3041

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20°C)
PETROLEUM DISTILLATES ODORLESS MINERAL SPIRITS CAS #8030-30-6	48	100	500	2
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE 1-METHOXY 2-ACETYL PROPANE CAS #108-65-6	2	NE	NE	4
LEADED PIGMENT(S) CAS # : UNKNOWN	1	0.05*	0.05*	NA

* Values given are in mg/M³.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M³.

WARNING!!
Do not use on toys, furniture, or surfaces of other articles which might be chewed by children. Wash hands thoroughly after using and before smoking or eating.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 7.31 lbs. VOLUME PERCENT VOLATILE 57

BOILING RANGE 302°F — 395°F VOC OF MATERIAL 442 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY ---- Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

WARNING! — COMBUSTIBLE.

FLASH POINT 114°F TCC LEL 1.00

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation with redness, swelling and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, convulsions, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea. May cause severe irritation to the mouth, throat and stomach.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC)

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Can cause irritation to mucous membranes.
—High vapors may result in central nervous system depression.
—Aspiration of material into the lungs can cause chemical pneumonitis, pulmonary edema, and hemorrhage.
—May cause injury to kidneys and liver.
—Coma may result from overexposure.
—A cumulative poison.
—Ingestion or inhalation of dusts and mists can cause lead poisoning.
—Keep away from food products.
—Lead is a cumulative poison. Increasing amounts build up in the body and eventually a point is reached when symptoms and disability occur.

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.
Birth defect hazard. Contains lead compound which can cause birth defects. Can also cause kidney and/or nervous system damage and blood disorders.

CARCINOGENIC? ( ) YES ( ) IARC ( ) NTP ( ) OSHA
(X) NO

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 01-28-1988

SECTION I

MANUFACTURER	U. S. PAINT DIVISION OF GROW GROUP, INCORPORATED 831 S. 21st Street St. Louis, Missouri 63103
INFORMATION	(314) 621-0525
EMERGENCY	CHEMTREC --- 1-800-424-9300
PRODUCT CLASS	MODIFIED POLYESTER RESIN
TRADE NAME	Clear Gloss, Low Solids Clear Polyester Urethane Topcoat
CODE	G3003

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20°C)
ETHYL 3 ETHOXYPROPIONATE ETHYL 3 ETHOXYPROPIONATE CAS #763699	3	NE	NE	1
METHYL ETHYL KETONE 2-BUTANONE CAS #78933	54	200	200	78
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE 1-METHOXY 2-ACETYL PROPANE CAS #108-65-6	13	NE	NE	4
TOLUENE METHYL BENZENE CAS #108883	1	100	200	23
XYLENE DIMETHYL BENZENE CAS #1330-20-7	2	100	100	10

* Values given are in mg/M³.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M³.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 7.64 lbs. VOLUME PERCENT VOLATILE 79

BOILING RANGE 172°F — 329°F VOC OF MATERIAL 666 gms./l.

EVAPORATION RATE — Slower than Ether

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.

VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 21°F TCC LEL 1.05

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters. During a fire, toxic gases and smoke are irritants present from decomposition/combustion. Closed container may explode when exposed to extreme heat.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis. Solvents can penetrate the skin causing effects similar to those identified under acute breathing symptoms.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation. May also cause tightness in the chest.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, sore throat, abdominal pain, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC)

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Can cause irritation to mucous membranes.
—Lassitude, loss of appetite, and a bad taste may be noted at high concentrations.
—High vapors may result in central nervous system depression.
—Narcotic effects have been noted.
—May cause injury to kidneys and liver.
—Corneal effects may occur.
—Coma may result from overexposure.
—Prolonged vapor contact may cause conjunctivitis.

CARCINOGENIC? ( ) YES ( ) IARC ( ) NTP ( ) OSHA
(X) NO

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 01-28-1988

SECTION I

MANUFACTURER	U. S. PAINT DIVISION OF GROW GROUP, INCORPORATED 831 S. 21st Street St. Louis, Missouri 63103
INFORMATION	(314) 621-0525
EMERGENCY	CHEMTREC --- 1-800-424-9300
PRODUCT CLASS	MODIFIED POLYESTER RESIN
TRADE NAME	Clear Polyurethane Topcoat High Gloss High Solids
CODE	G3005

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20°C)
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE 1-METHOXY 2-ACETYL PROPANE CAS #108-65-6	43	NE	NE	4
METHYL ISOBUTYL KETONE 4-METHYL 2-PENTANONE CAS #108101	4	50	100	15
TOLUENE METHYL BENZENE CAS #108883	6	100	200	23
XYLENE DIMETHYL BENZENE CAS #1330-20-7	3	100	100	10

* Values given are in mg/M³.

NA — Not available
NE — Not established

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 8.63 lbs. VOLUME PERCENT VOLATILE 63

BOILING RANGE 230°F — 302°F VOC OF MATERIAL 590 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY —— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.

VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 40°F TCC LEL 1.10

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters. During a fire, toxic gases and smoke are irritants present from decomposition/combustion. Closed container may explode when exposed to extreme heat.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis. Solvents can penetrate the skin causing effects similar to those identified under acute breathing symptoms.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation. May also cause tightness in the chest.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, sore throat, abdominal pain, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC)

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Can cause irritation to mucous membranes.
—Lassitude, loss of appetite, and a bad taste may be noted at high concentrations.
—High vapors may result in central nervous system depression.
—Narcotic effects have been noted.
—May cause injury to kidneys and liver.
—Corneal effects may occur.
—Coma may result from overexposure.

CARCINOGENIC? ( ) YES ( ) IARC ( ) NTP ( ) OSHA
(X) NO

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 01-28-1988

SECTION I

MANUFACTURER — U. S. PAINT
DIVISION OF GROW GROUP, INCORPORATED
831 S. 21st Street
St. Louis, Missouri 63103

INFORMATION — (314) 621-0525

EMERGENCY — CHEMTREC --- 1-800-424-9300

PRODUCT CLASS — MODIFIED POLYESTER RESIN

TRADE NAME — Satin Clear Polyester Urethane Topcoat

CODE — H3026

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20°C)
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE 1-METHOXY 2-ACETYL PROPANE CAS #108-65-6	41	NE	NE	4
METHYL ISOBUTYL KETONE 4-METHYL 2-PENTANONE CAS #108101	3	50	100	15
TOLUENE METHYL BENZENE CAS #108883	3	100	200	23
XYLENE DIMETHYL BENZENE CAS #1330-20-7	3	100	100	10

* Values given are in mg/M³.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M³.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 9.02 lbs. — VOLUME PERCENT VOLATILE 58

BOILING RANGE 230°F — 302°F — VOC OF MATERIAL 542 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY ——— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.

VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 40°F TCC — LEL 1.10

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters. During a fire, toxic gases and smoke are irritants present from decomposition/combustion. Closed container may explode when exposed to extreme heat.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis. Solvents can penetrate the skin causing effects similar to those identified under acute breathing symptoms.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation. May also cause tightness in the chest.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, sore throat, abdominal pain, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC)

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Can cause irritation to mucous membranes.
—Lassitude, loss of appetite, and a bad taste may be noted at high concentrations.
—High vapors may result in central nervous system depression.
—Narcotic effects have been noted.
—May cause injury to kidneys and liver.
—Corneal effects may occur.
—Coma may result from overexposure.

CARCINOGENIC? ( ) YES ( ) IARC ( ) NTP ( ) OSHA
(X) NO

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 02-23-1988

SECTION I

MANUFACTURER	U. S. PAINT DIVISION OF GROW GROUP, INCORPORATED 831 S. 21st Street St. Louis, Missouri 63103
INFORMATION	(314) 621-0525
EMERGENCY	CHEMTREC --- 1-800-424-9300
PRODUCT CLASS	MODIFIED POLYESTER RESIN
TRADE NAME	#9101 Flat Black Polyurethane Topcoat
CODE	G2002

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20° C)
METHYL ETHYL KETONE 2-BUTANONE CAS #78933	4	200	200	78
TOLUENE METHYL BENZENE CAS #108883	5	100	200	23
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE 1-METHOXY 2-ACETYL PROPANE CAS #108-65-6	42	NE	NE	4
XYLENE DIMETHYL BENZENE CAS #1330-20-7	2	100	100	10
CARBON BLACK CAS #1330-86-4	4	3.5*	3.5*	NA

* Values given are in mg/M^3.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M^3.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 9.98 lbs. VOLUME PERCENT VOLATILE 67

BOILING RANGE 172°F — 302°F VOC OF MATERIAL 630 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY ——— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.
VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 21°F TCC LEL 1.10

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters. During a fire, toxic gases and smoke are irritants present from decomposition/combustion. Closed containers may explode when exposed to extreme heat.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, swelling and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC)

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Can cause irritation to mucous membranes.
—Lassitude, loss of appetite, and a bad taste may be noted at high concentrations.
—High vapors may result in central nervous system depression.
—Narcotic effects have been noted.
—Overexposure may cause injury to kidneys, liver, and lungs.
—Corneal effects may occur.
—Coma may result from overexposure.
—Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.
—Hemorrhages into various vital organs have been noted.

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 02-29-1988

SECTION I

MANUFACTURER	U. S. PAINT DIVISION OF GROW GROUP, INCORPORATED 831 S. 21st Street St. Louis, Missouri 63103
INFORMATION	(314) 621-0525
EMERGENCY	CHEMTREC --- 1-800-424-9300
PRODUCT CLASS	MODIFIED POLYISOCYANATE RESIN
TRADE NAME	TOPCOAT CONVERTER FOR SPRAY APPLICATION
CODE	G3010 (92-C-39) AWL-CAT® #2

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20° C)
XYLENE DIMETHYL BENZENE CAS #1330207	6	100	100	10
ETHYL ACETATE ETHYL ETHANOATE CAS #141786	25	400	400	86
ETHYL 3 ETHOXYPROPIONATE ETHYL 3 ETHOXYPROPIONATE CAS #763699	28	NE	NE	1
ALIPHATIC POLYISOCYANATE BIURET OF 1,6 HEXAMETHYLENE DIISOCYANATE CAS #28182-81-2	41	0.02	0.02	0

* Values given are in mg/M³.

NA — Not available
NE — Not established

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 8.33 lbs. VOLUME PERCENT VOLATILE 64

BOILING RANGE 168°F — 382°F VOC OF MATERIAL 588 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY ——— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.
VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 24°F TCC LEL 1.05

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

Personnel who are fighting isocyanate fires should wear self-contained breathing apparatus. During a fire, isocyanate vapors and other irritating, highly toxic gases may be generated by thermal decomposition or combustion. Closed container may explode when exposed to extreme heat or burst when contaminated with water (CO_2 evolved).

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Liquid, aerosols or vapors of the product are irritating and can cause tearing, reddening and swelling accompanied by a stinging sensation and maybe a feeling like that of fine dust in the eyes.
SKIN	Isocyanates react with skin protein and moisture and can cause irritation. Symptoms of skin irritation may be reddening, swelling, rash, scaling or blistering. Some persons may develop skin sensitization from skin contact. Cured material is difficult to remove.
BREATHING	Isocyanate vapors or mist at concentrations above the suggested TLV can irritate (burning sensation) the mucous membranes in the respiratory tract (nose, throat, lungs) causing runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function (breathing obstruction). Persons with a preexisting, nonspecific bronchial hyperreactivity can respond to concentrations below the TLV with similar symptoms as well as an asthma attack. Exposure well above the TLV may lead to bronchitis, bronchial spasm and pulmonary edema (fluid in lungs). These effects are usually reversible. Chemical or hypersensitive pneumonitis, with flu-like symptoms (e.g., fever, chills) has also been reported.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea. Can result in irritation and possible corrosive action in the mouth, stomach tissue and digestive tract.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC)

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Can cause irritation to mucous membranes.
—May cause injury to kidneys and liver.
—Corneal effects may occur.
—Persons with asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases or recurrent skin eczema or sensitization should be excluded from working with isocyanates. Once a person is diagnosed as sensitized to an isocyanate no further exposure can be permitted.
—Allergic skin or respiratory reaction may occur in some individuals. Respiratory sensitivity results in asthma-like symptoms on subsequent exposure even below the TLV. Skin sensitivity results in allergic dermatitis which may include rash, itching, hives and swelling of extremities. In those who have developed a skin sensitization, these symptoms can develop as a result of contact with very small amounts of liquid material or even as a result of vapor-only exposure.
—High vapors may result in central nervous system depression.
—Hemorrhages into various vital organs have been noted.
—Coma may result from overexposure.
—As a result of previous repeated overexposures or a single large dose, certain individuals will develop isocyanate sensitization (chemical asthma) which will cause them to react to a later

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 12-02-1987

SECTION I

MANUFACTURER	U. S. PAINT DIVISION OF GROW GROUP, INCORPORATED 831 S. 21st Street St. Louis, Missouri 63103
INFORMATION	(314) 621-0525
EMERGENCY	CHEMTREC --- 1-800-424-9300
PRODUCT CLASS	MODIFIED POLYISOCYANATE RESIN
TRADE NAME	BRUSHING TOPCOAT CONVERTER
CODE	H3002 (82-C-147) AWL-CAT® #3

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20°C)
ETHYL 3 ETHOXYPROPIONATE ETHYL 3 ETHOXYPROPIONATE CAS #763699	19	NE	NE	1
ALIPHATIC POLYISOCYANATE BIURET OF 1,6 HEXAMETHYLENE DIISOCYANATE CAS # : 822-06-0	75	0.02	0.02	0

* Values given are in mg/M³.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M³.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 9.04 lbs. VOLUME PERCENT VOLATILE 29

BOILING RANGE 329°F — 382°F VOC OF MATERIAL 276 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY —— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

WARNING! — COMBUSTIBLE.

FLASH POINT 136°F TCC LEL 1.05

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Prevent build up of vapors by maintaining a continuous flow of fresh air. Do not breathe vapors, spray mist, or sanding dusts. USE A RESPIRATOR THAT A RESPIRATOR SUPPLIER RECOMMENDS AS EFFECTIVE FOR ISOCYANATES.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

Personnel who are fighting isocyanate fires should wear self-contained breathing apparatus.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC)

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Persons with asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases or recurrent skin eczema or sensitization should be excluded from working with isocyanates. Once a person is diagnosed as sensitized to an isocyanate no further exposure can be permitted.
—Allergic skin or respiratory reaction may occur in some individuals. Respiratory sensitivity results in asthma-like symptoms on subsequent exposure even below the TLV. Skin sensitivity results in allergic dermatitis which may include rash, itching, hives and swelling of extremities.

CARCINOGENIC? ( ) YES ( ) IARC ( ) NTP ( ) OSHA
(X) NO

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

PRIMARY ROUTE(S) OF ENTRY (X) SKIN (X) BREATHING (X) SWALLOWING

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 10-14-1985 R 12-12-1985 R 02-25-1987

SECTION I

MANUFACTURER U. S. PAINT
DIVISION OF GROW GROUP, INCORPORATED
831 S. 21st Street
St. Louis, Missouri 63103

INFORMATION (314) 621-0525

EMERGENCY (314) 621-0525

PRODUCT CLASS MODIFIED EPOXY RESIN

TRADE NAME 30-Y-94 Non-Sanding Mil-Spec Anti-Corrosive Epoxy Primer

CODE S9001

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg)
ISOBUTANOL 2 BUTANOL	6	50	100	9
NORMAL BUTYL ACETATE BUTYL ETHANOATE	6	150	150	10
COLLOSOLVE 2-ETHOXYETHANOL	6	5	200	4
METHYL ETHYL KETONE 2-BUTANONE	9	200	200	71
TOLUENE METHYL BENZENE	6	100	200	23
CHROMATE PIGMENT(S)	18	0.05*	0.05*	NA

* Values given are in mg/M³.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M³.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 11.37 lbs. VOLUME PERCENT VOLATILE 57

BOILING RANGE 172°F — 279°F

EVAPORATION RATE — Slower than Ether

VAPOR DENSITY Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.
VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 21°F TCC LEL 1.20

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC)

- Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
- Lassitude, loss of appetite, and a bad taste may be noted at high concentrations.
- Mild Allegen
- Narcotic effects have been noted.
- Chromate salts are recognized carcinogens of the lungs, nasal cavity, and paranasal sinus, also experimental carcinogens of the stomach and larynx.

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

WARNING! Harmful or fatal if swallowed. Harmful if inhaled or absorbed through skin. Overexposure may cause blood disorders. Based on tests with laboratory animals, overexposure may cause reproductive disorders and birth defects.

PRIMARY ROUTE(S) OF ENTRY (X) SKIN (X) BREATHING (X) SWALLOWING

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 01-27-1988

SECTION I

MANUFACTURER	U. S. PAINT DIVISION OF GROW GROUP, INCORPORATED 831 S. 21st Street St. Louis, Missouri 63103
INFORMATION	(314) 621-0525
EMERGENCY	CHEMTREC --- 1-800-424-9300
PRODUCT CLASS	ACID REDUCER
TRADE NAME	Acid Reducer for G9072
CODE	G3014

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20° C)
ISOPROPYL ALCOHOL 2-PROPANOL CAS #67630	38	400	400	33
METHYL ISOBUTYL KETONE 4-METHYL 2-PENTANONE CAS #108101	8	50	100	15
BUTYL CELLOSOLVE 2 BUTOXYETHANOL CAS #111762	3	25	50	1
METHYL ETHYL KETONE 2-BUTANONE CAS #78933	12	200	200	78
NORMAL BUTYL ALCOHOL BUTANOL CAS #71363	34	50	100	6
PHOSPHORIC ACID PHOSPHORIC ACID CAS #7664-38-2	4	1*	1*	.03

* Values given are in mg/M^3.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M^3.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 6.85 lbs. VOLUME PERCENT VOLATILE 98

BOILING RANGE 172° F — 343° F VOC OF MATERIAL 820 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY ——— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.

VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 21° F TCC LEL 1.10

EXTINGUISHING MEDIA — Dry Chemical or Foam

D.O.T. CLASSIFICATION — Corrosive Material

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters. Thermal decomposition emits toxic fumes of oxides of phosphorus.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Causes severe irritation, redness, tearing, and blurred vision. Chemical burn likely.
SKIN	Prolonged or repeated contact can cause severe irritation, defatting, and dermatitis. Corrosive to tissue.
BREATHING	Inhalation of vapors can cause severe nasal and respiratory irritation, if in excess dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation can occur.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea. Corrosive to tissue.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC)

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—High vapors may result in central nervous system depression.
—Narcotic effects have been noted.
—May cause injury to kidneys and liver.
—Corneal effects may occur.
—Slightly toxic with repeated inhalation or ingestion. Causes burns to exposed tissue.

CARCINOGENIC? ( ) YES ( ) IARC ( ) NTP ( ) OSHA
(X) NO

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 07-14-1987

SECTION I

MANUFACTURER U. S. PAINT
DIVISION OF GROW GROUP, INCORPORATED
831 S. 21st Street
St. Louis, Missouri 63103

INFORMATION (314) 621-0525

EMERGENCY CHEMTREC --- 1-800-424-9300

PRODUCT CLASS MODIFIED ALKYD RESIN

TRADE NAME ZINC CHROMATE PRIMERS

CODE S9005/S4007
MEETS FED. SPEC. TT-P-1757A

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	AEROSOL WEIGHT %	NON-AEROSOL WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20°C)
NORMAL BUTYL ACETATE BUTYL ETHANOATE CAS #123864	8	11	150	150	10
METHYL ETHYL KETONE 2-BUTANONE CAS #78933	14	20	200	200	78
XYLENE DIMETHYL BENZENE CAS #1330207	19	27	100	100	10
CHROMATE PIGMENT(S) CAS # : UNKNOWN	13	19	0.05*	0.05*	NA
PROPANE CAS #74986	17	0	A	1000	NA
ISOBUTANE CAS #75285	5	0	NE	800	NA
BUTANE CAS #106978	8	0	800	NE	NA

* Values given are in mg/M³.

NA — Not available
NE — Not established
A — Asphyxiant

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M³.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III -- PHYSICAL DATA

WEIGHT PER GALLON 8.97 lbs.(NON-AEROSOL) 7.13 lbs.(AEROSOL)

VOLUME PERCENT VOLATILE 74 (NON-AEROSOL) 86 (AEROSOL)

BOILING RANGE 172°F—288°F (NON-AEROSOL) -43°F—288°F (AEROSOL)

VOC OF MATERIAL 633 gms./l. (NON-AEROSOL) 604 gms./l. (AEROSOL)

EVAPORATION RATE — Slower than Ether**
VAPOR DENSITY ——— Heavier than Air
**PROPELLANTS FASTER THAN ETHER

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

EXTREMELY FLAMMABLE! (AEROSOL)
DANGER! -- FLAMMABLE. (NON-AEROSOL)
VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 21°F TCC (NON-AEROSOL) -156° (AEROSOL)

LEL 1.10

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS -- Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES — Can cause severe irritation, redness, tearing, and blurred vision. (AEROSOL PROPELLANT: Contact with the liquified gas or the gas under pressure may cause burning.)

SKIN — Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis. (AEROSOL PROPELLANT: Contact with the liquified gas or the gas under pressure may cause skin burns and frostbite.)

BREATHING — Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.

SWALLOWING — INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC):

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Can cause irritation to mucous membranes.
—Mild allergen.
—Narcotic effects have been noted.
—Corneal effects may occur.
—Chromate salts are recognized carcinogens of the lungs, nasal cavity, and paranasal sinus, also experimental carcinogens of the stomach and larynx.

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 01-25-1988

SECTION I

MANUFACTURER	U. S. PAINT DIVISION OF GROW GROUP, INCORPORATED 831 S. 21st Street St. Louis, Missouri 63103
INFORMATION	(314) 621-0525
EMERGENCY	CHEMTREC --- 1-800-424-9300
PRODUCT CLASS	MODIFIED POLYESTER RESIN
TRADE NAME	Fast Dry Polyurethane Primer Surfacer White Base
CODE	G8005

SECTION II -- HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20°C)
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE 1-METHOXY 2-ACETYL PROPANE CAS #108-65-6	22	NE	NE	4
ETHYL 3 ETHOXYPROPIONATE ETHYL 3 ETHOXYPROPIONATE CAS #763699	11	NE	NE	1
ETHYL ACETATE ETHYL ETHANOATE CAS #141786	2	400	400	86
TOLUENE METHYL BENZENE CAS #108883	1	100	200	23

Values given are in mg/M³.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust - 10 mg/M³.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 11.69 lbs. VOLUME PERCENT VOLATILE 54

BOILING RANGE 168°F — 329°F VOC OF MATERIAL 513 gms./l.

EVAPORATION RATE -- Slower than Ether
VAPOR DENSITY ---- Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.

VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 24°F TCC LEL 1.05

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS -- Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES -- Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters. During a fire, toxic gases and smoke are irritants present from decomposition/combustion. Closed container may explode when exposed to extreme heat.

SECTION V -- HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis. Solvents can penetrate the skin causing effects similar to those identified under acute breathing symptoms.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation. May also cause tightness in the chest
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, sore throat, abdominal pain, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC)

- Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
- Can cause irritation to mucous membranes.
- Lassitude, loss of appetite, and a bad taste may be noted at high concentrations.
- High vapors may result in central nervous system depression.
- Narcotic effects have been noted.
- --May cause injury to kidneys and liver.
- --Corneal effects may occur.
- --Coma may result from overexposure.

CARCINOGENIC? ( ) YES ( ) IARC ( ) NTP ( ) OSHA
(X) NO

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Symtoms include loss of memory, loss of intellectual ability, and loss of coordination.

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 11-13-1987

SECTION I

MANUFACTURER U. S. PAINT
DIVISION OF GROW GROUP, INCORPORATED
831 S. 21st Street
St. Louis, Missouri 63103

INFORMATION (314) 621-0525

EMERGENCY CHEMTREC — 1-800-424-9300

PRODUCT CLASS MODIFIED POLYISOCYANATE RESIN

TRADE NAME 85-A-3™ Corrosion Inhibiting Moisture-Cured Urethane Maintenance Primer - Aluminum

CODE H1001

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20° C)
PETROLEUM DISTILLATES HI-FLASH NAPTHA CAS #64742956	22	50	NE	2
XYLENE DIMETHYL BENZENE CAS #1330207	9	100	100	10
PETROLEUM DISTILLATES ODORLESS MINERAL SPIRITS CAS #64742-88-7	8	100	500	2
AROMATIC POLYISOCYANATE DIPHENYLMETHANE DIISOCYANATE BASED ADDUCT CAS # : 26447-40-5	45	0.02	0.02	0

* Values given are in mg/M³.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M³.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 9.11 lbs. VOLUME PERCENT VOLATILE 50

BOILING RANGE 278°F — 395°F VOC OF MATERIAL 421 gms./l.

EVAPORATION RATE — Slower than Ether

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.
VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 82°F TCC LEL 1.00

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

Personnel who are fighting isocyanate fires should wear self-contained breathing apparatus.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

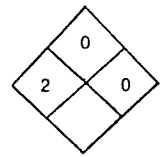
EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC)

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Can cause irritation to mucous membranes.
—May cause injury to kidneys and liver.
—Corneal effects may occur.
—Coma may result from overexposure.
—Persons with asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases or recurrent skin eczema or sensitization should be excluded from working with isocyanates. Once a person is diagnosed as sensitized to an isocyanate no further exposure can be permitted.
—Allergic skin or respiratory reaction may occur in some individuals. Respiratory sensitivity results in asthma-like symptoms on subsequent exposure even below the TLV. Skin sensitivity results in allergic dermatitis which may include rash, itching, hives and swelling of extremities.
—Effects peripheral nervous system.
—High vapors may result in central nervous system depression.
—Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.

CARCINOGENIC? ( ) YES ( ) IARC ( ) NTP ( ) OSHA
(X) NO

AMCHEM PRODUCTS, INC.
Division of Henkel Corporation
300 Brookside Avenue
Ambler, PA 19002



MATERIAL SAFETY DATA SHEET

PRODUCT TRADE NAME	Alodine 1201/73003
D.O.T. PROPER SHIPPING NAME	Not Regulated
D.O.T. HAZARD CLASSIFICATION	None
TECHNICAL CONTACT (NAME)	Charles Gruszka
TELEPHONE NUMBER	(215) 628-1364
EMERGENCY NUMBER	(215) 628-1000

1 HAZARDOUS INGREDIENTS

MATERIAL	CAS NO.	CONTENTS (% WT/WT)	HAZARD	TLV
Chromic Acid	7738-94-5	<1	Carcinogen, NTP, IARC; Corrosive	0.05 mg (Cr)/M³ PEL(0.1 mg (Cr03)/M³)

2 PHYSICAL DATA

APPEARANCE	Amber liquid	SOLUBILITY IN WATER	Complete
ODOR, @ 60°F	None	pH OF CONCENTRATE	<2
SPECIFIC GRAVITY @ 60°F	1.00-1.02	BOILING POINT, °F	>212
OTHER:	Freezing Point: 32°F		

3 FIRE AND EXPLOSION DATA

FLASH POINT None TEST METHOD N/A EXTINGUISHING MEDIA Water

UNUSUAL FIRE OR EXPLOSION HAZARDS
If organic material such as rags, paper, sawdust, etc., become saturated with this material and then dried, spontaneous combustion may result.

SPECIAL FIRE FIGHTING PROCEDURES Wear self-contained breathing apparatus - NIOSH approved.

4 REACTIVITY DATA

STABLE [X] UNSTABLE [ ]

CONDITIONS TO AVOID
N/A

INCOMPATIBLE MATERIALS
Organic materials, reducing agents, strong acids

HAZARDOUS POLYMERIZATION WILL NOT OCCUR [X]
WILL OCCUR [ ]

HAZARDOUS DECOMPOSITION PRODUCTS
Hydrogen cyanide

5 HEALTH HAZARD DATA

Skin	Will irritate and may burn.
Eyes	Will irritate and may burn.
Ingestion	Will burn mouth, throat, and stomach. May be fatal.
Inhalation	Will irritate and may burn respiratory tract if prolonged.

6 FIRST AID RECOMMENDATIONS

Skin	Flush with cold water for 5-10 minutes. Soak affected area in an iced solution of ZEPHIRAN CHLORIDE (a readily available product at any drug store). The strength of the soak is 0.13% or 30 cc of 17% ZEPHIRAN CHLORIDE CONCENTRATE per each gallon of iced distilled water. Soak affected part for 1 hour. Call a doctor and make him aware that hydrofluoric acid burns may not become apparent until several hours after exposure.
Eyes	Flush immediately with copious amounts of water for at least 15 minutes. Call a doctor.
Ingestion	Drink milk of magnesia, aluminum hydroxide gel, or limewater, followed by several glasses of water. Call a doctor. Do not induce vomiting unless directed by a doctor.
Inhalation	Remove from contaminated area to fresh air. Any exposed person with any respiratory difficulty such as coughing, chest pain, breathing difficulty, dizziness, fatigue, etc., should be examined by a doctor and the doctor made aware of what materials the individual was exposed to.

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 01-26-1988

SECTION I

MANUFACTURER — U. S. PAINT
DIVISION OF GROW GROUP, INCORPORATED
831 S. 21st Street
St. Louis, Missouri 63103

INFORMATION — (314) 621-0525

EMERGENCY — CHEMTREC --- 1-800-424-9300

PRODUCT CLASS — AUXILIARY PRODUCT

TRADE NAME — PRO-CURE™ X-98 Fast Accelerator For Urethane Topcoats

CODE — 73014

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20° C)
TOLUENE METHYL BENZENE CAS #108883	44	100	200	23
ETHYL 3 ETHOXYPROPIONATE ETHYL 3 ETHOXYPROPIONATE CAS #763699	49	NE	NE	1
ORGANOTIN DIBUTYLTIN DILAURATE CAS #77-58-7	7	0.1mgSn/M³ (skin)	0.1mgSn/M³ (skin)	0.2 @ 160° C

* Values given are in mg/M³.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M³.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 7.66 lbs. — VOLUME PERCENT VOLATILE 94

BOILING RANGE 230° F — 329° F — VOC OF MATERIAL 851 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY ——— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.

VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 40° F TCC — LEL 1.05

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Causes severe chemical burns. Burns of the eye may result in blindness.
SKIN	Contact causes severe chemical burns.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC)

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Lassitude, loss of appetite, and a bad taste may be noted at high concentrations.
—High vapors may result in central nervous system depression.

CARCINOGENIC? ( ) YES ( ) IARC ( ) NTP ( ) OSHA
(X) NO

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

PRIMARY ROUTE(S) OF ENTRY (X) SKIN (X) BREATHING (X) SWALLOWING

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 01-25-1988

SECTION I

MANUFACTURER U. S. PAINT
DIVISION OF GROW GROUP, INCORPORATED
831 S. 21st Street
St. Louis, Missouri 63103

INFORMATION (314) 621-0525

EMERGENCY CHEMTREC --- 1-800-424-9300

PRODUCT CLASS AUXILIARY PRODUCT

TRADE NAME 1010 FLATTENING AGENT FOR URETHANE TOPCOATS

CODE G3013

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20°C)
METHYL ISOBUTYL KETONE 4-METHYL 2-PENTANONE CAS #108101	6	50	100	15
TOLUENE METHYL BENZENE CAS #108883	5	100	200	23
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE 1-METHOXY 2-ACETYL PROPANE CAS #108-65-6	54	NE	NE	4

* Values given are in mg/M³.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M³/

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 10.00 lbs. VOLUME PERCENT VOLATILE 82

BOILING RANGE 230°F — 302°F VOC OF MATERIAL 773 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY ——— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.
VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 40°F TCC LEL 1.27

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC)

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Lassitude, loss of appetite, and a bad taste may be noted at high concentrations.
—High vapors may result in central nervous system depression.
—Narcotic effects have been noted.
—May cause injury to kidneys and liver.
—Coma may result from overexposure.
—Can cause irritation to mucous membranes.

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

CARCINOGENIC? ( ) YES ( ) IARC ( ) NTP ( ) OSHA
(X) NO

PRIMARY ROUTE(S) OF ENTRY (X) SKIN (X) BREATHING (X) SWALLOWING

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 01-26-1988

SECTION I

MANUFACTURER U. S. PAINT
DIVISION OF GROW GROUP, INCORPORATED
831 S. 21st Street
St. Louis, Missouri 63103

INFORMATION (314) 621-0525

EMERGENCY CHEMTREC --- 1-800-424-9300

PRODUCT CLASS AUXILIARY PRODUCT

TRADE NAME Crater-X® Fisheye Eliminator and Anti-Contaminant Additive

CODE M1017

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20° C)
ETHYL 3 ETHOXYPROPIONATE ETHYL 3 ETHOXYPROPIONATE CAS #763699	50	NE	NE	1
ISOBUTANOL 2 BUTANOL CAS #78831	5	50	100	9
XYLENE DIMETHYL BENZENE CAS #1330-20-7	16	100	100	10
ETHYL BENZENE PHENYLETHANE CAS #100-41-4	3	100	100	10

* Values given are in mg/M³.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M³.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 7.91 lbs. VOLUME PERCENT VOLATILE 78

BOILING RANGE 225° F — 329° F VOC OF MATERIAL 712 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY ——— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.

VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 59° F TCC LEL 1.05

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC)

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Can cause irritation to mucous membranes.
—High vapors may result in central nervous system depression.
—May cause injury to kidneys and liver.
—Corneal effects may occur.
—Coma may result from overexposure.
—Narcotic effects have been noted.

CARCINOGENIC? ( ) YES ( ) IARC ( ) NTP ( ) OSHA
(X) NO

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

PRIMARY ROUTE(S) OF ENTRY (X) SKIN (X) BREATHING (X) SWALLOWING

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 10-16-1987

SECTION I

MANUFACTURER U. S. PAINT
DIVISION OF GROW GROUP, INCORPORATED
831 S. 21st Street
St. Louis, Missouri 63103

INFORMATION (314) 621-0525

EMERGENCY CHEMTREC — 1-800-424-9300

PRODUCT CLASS MODIFIED VINYL RESIN

TRADE NAME URETHANE SPATTERING ADDITIVE - SPATTER-IT

CODE M3048

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20° C)
METHYL ETHYL KETONE 2-BUTANONE CAS #78933	37	200	200	78
TOLUENE METHYL BENZENE CAS #108883	22	100	200	23
CYCLOHEXANONE CYCLOHEXANONE CAS #108941	15	25	50	3

* Values given are in mg/M³.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M³.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 7.89 lbs. VOLUME PERCENT VOLATILE 82

BOILING RANGE 172° F — 338° F VOC OF MATERIAL 695 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY —— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.
VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 21° F TCC LEL 1.10

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC):

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Nasal and respiratory irritant.
—Lassitude, loss of appetite, and a bad taste may be noted at high concentrations.
—Narcotic effects have been noted.
—May cause injury to kidneys and liver.

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 02-16-1988

SECTION I

MANUFACTURER	U. S. PAINT DIVISION OF GROW GROUP, INCORPORATED 831 S. 21st Street St. Louis, Missouri 63103
INFORMATION	(314) 621-0525
EMERGENCY	CHEMTREC --- 1-800-424-9300
PRODUCT CLASS	MODIFIED POLYISOCYANATE RESIN
TRADE NAME	85-A-1™ Corrosion Inhibiting Moisture-Cured Urethane Maintenance Finish
CODE	H1013

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20° C)
ETHYL 3 ETHOXYPROPIONATE ETHYL 3 ETHOXYPROPIONATE CAS #763699	32	NE	NE	1
PETROLEUM DISTILLATES ODORLESS MINERAL SPIRITS CAS #64742-88-7	7	100	500	2
AROMATIC POLYISOCYANATE DIPHENYLMETHANE DIISOCYANATE BASED ADDUCT CAS # NA	48	0.02	0.02	0

* Values given are in mg/M³.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M³.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 9.43 lbs. VOLUME PERCENT VOLATILE 48

BOILING RANGE 305° F — 395° F VOC OF MATERIAL 425 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY ——— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

WARNING! — COMBUSTIBLE.

FLASH POINT 120° F TCC LEL 1.00

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

Personnel who are fighting isocyanate fires should wear self-contained breathing apparatus. During a fire, isocyanate vapors and other irritating, highly toxic gases may be generated by thermal decomposition or combustion. At temperatures greater than 400° F (204° C),polymeric MDI can polymerize and decompose which can cause pressure build-up in closed containers. Explosive rupture is possible. Therefore, use cold water to cool fire-exposed containers.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Vapors or aerosols are irritating to the eyes and can cause lachrymation (tearing effect). Corneal damage may occur; however, indications are that the damage is reversible and does not result in permanent injury.
SKIN	MDI reacts with skin protein and tissue moisture and can cause localized irritation as well as discoloration. Prolonged contact could produce reddening, swelling, or blistering and, in some individuals, skin sensitization resulting in dermatitis.
BREATHING	Inhalation of vapors or mist can produce irritation of the mucous membranes in the respiratory tract. Symptoms may be runny nose, dryness of the throat, coughing, headache, tightness in the chest or burning sensation. A reduction in lung function may also be seen. Extensive exposures to concentrations of MDI well above the TLV could lead to bronchitis, bronchial spasm and pulmonary edema. These effects are usually reversible. However, due to low volatility, high exposures are not anticipated except if the material is overheated or sprayed as an aerosol into the air. Hypersensitivity pneumonitis has also been reported. Another type of response is hyperreactivity or hypersensitization. Persons with a preexisting unspecific bronchial hyperreactivity or persons with a specific isocyanate hypersensitivity (as a result of previous repeated overexposure or a single large dosage) will respond to small isocyanate concentrations at levels well below the TLV of 0.02 ppm. Symptoms could be immediate or delayed and include chest tightness, respiratory distress or asthmatic attack.
SWALLOWING	Ingestion could result in irritation and some corrosive action in the mouth, stomach tissue and digestive tract. However, it is not considered a common occupational route of exposure.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC)

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Can cause irritation to mucous membranes.
—High vapors may result in central nervous system depression.
—Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.
—Coma may result from overexposure.
—Persons with asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases or recurrent skin eczema or sensitization should be excluded from working with isocyanates. Once a person is diagnosed as sensitized to an isocyanate no further exposure can be permitted.
—Allergic skin or respiratory reaction may occur in some individuals. Respiratory sensitivity results in asthma-like symptoms on subsequent exposure even below the TLV. Skin sensitivity results in allergic dermatitis which may include rash, itching, hives and swelling of extremities.

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 06-04-1987

SECTION I

MANUFACTURER U. S. PAINT
DIVISION OF GROW GROUP, INCORPORATED
831 S. 21st Street
St. Louis, Missouri 63103

INFORMATION (314) 621-0525

EMERGENCY CHEMTREC — 1-800-424-9300

PRODUCT CLASS SOLVENT BLEND

TRADE NAME FAST EVAPORATING REDUCER FOR SPRAY APPLIED URETHANE TOPCOATS

CODE T0001

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20° C)
ETHYL ACETATE ETHYL ETHANOATE CAS #141786	13	400	400	86
METHYL ETHYL KETONE 2-BUTANONE CAS #78933	35	200	200	78
NORMAL BUTYL ACETATE BUTYL ETHANOATE CAS #123864	12	150	150	10
ETHYL 3 ETHOXYPROPIONATE ETHYL 3 ETHOXYPROPIONATE CAS #763699	40	NE	NE	1

* Values given are in mg/M³.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M³.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 7.34 lbs. VOLUME PERCENT VOLATILE 100

BOILING RANGE 168° F — 329° F VOC OF MATERIAL 880 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY ——— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.
VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 21° F TCC LEL 1.05

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC)

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Can cause irritation to mucous membranes.
—Mild allergen.
—Narcotic effects have been noted.
—May cause injury to kidneys and liver.
—Corneal effects may occur.

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

PRIMARY ROUTE(S) OF ENTRY (X) SKIN (X) BREATHING (X) SWALLOWING

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 01-12-1988

SECTION I

MANUFACTURER U. S. PAINT
DIVISION OF GROW GROUP, INCORPORATED
831 S. 21st Street
St. Louis, Missouri 63103

INFORMATION (314) 621-0525

EMERGENCY CHEMTREC --- 1-800-424-9300

PRODUCT CLASS SOLVENT BLEND

TRADE NAME Fast Evaporating Reducer And Equipment Cleaner

CODE T0002

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20°C)
METHYL ETHYL KETONE 2-BUTANONE CAS #78933	100	200	200	78

* Values given are in mg/M³.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M³.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 6.71 lbs. VOLUME PERCENT VOLATILE 100

BOILING RANGE 172°F — 178°F VOC OF MATERIAL 804 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY ——— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.

VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 21°F TCC LEL 1.80

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC)

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—May produce central nervous system depression and narcosis.

CARCINOGENIC? ( ) YES ( ) IARC ( ) NTP ( ) OSHA
(X) NO

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

PRIMARY ROUTE(S) OF ENTRY (X) SKIN (X) BREATHING (X) SWALLOWING

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 05-18-1987

SECTION I

MANUFACTURER	U. S. PAINT DIVISION OF GROW GROUP, INCORPORATED 831 S. 21st Street St. Louis, Missouri 63103
INFORMATION	(314) 621-0525
EMERGENCY	CHEMTREC --- 1-800-424-9300
PRODUCT CLASS	SOLVENT BLEND
TRADE NAME	STANDARD REDUCER FOR SPRAY APPLIED URETHANE TOPCOATS
CODE	T0003

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20°C)
ETHYL 3 ETHOXYPROPIONATE ETHYL 3 ETHOXYPROPIONATE CAS #763699	51	NE	NE	1
ETHYL ACETATE ETHYL ETHANOATE CAS #141786	49	400	400	86

* Values given are in mg/M³.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M³.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 7.71 lbs. VOLUME PERCENT VOLATILE 100

BOILING RANGE 168° F — 329° F VOC OF MATERIAL 924 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY ——— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.
VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 24° F TCC LEL 1.05

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC):

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Can cause irritation to mucous membranes.
—Narcotic effects have been noted.
—May cause injury to kidneys and liver.
—Corneal effects may occur.

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Primary Route(s) of Entry (x) skin (x) breathing (x) swallowing

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 05-18-1987

SECTION I

MANUFACTURER U. S. PAINT
DIVISION OF GROW GROUP, INCORPORATED
831 S. 21st Street
St. Louis, Missouri 63103

INFORMATION (314) 621-0525

EMERGENCY CHEMTREC --- 1-800-424-9300

PRODUCT CLASS SOLVENT BLEND

TRADE NAME STANDARD REDUCER FOR EPOXY PRIMERS

CODE T0006

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20°C)
TOLUENE METHYL BENZENE CAS #108883	20	100	200	23
NORMAL BUTYL ACETATE BUTYL ETHANOATE CAS #123864	32	150	150	10
NORMAL BUTYL ALCOHOL BUTANOL CAS #71363	18	50	100	6
METHYL ETHYL KETONE 2-BUTANONE CAS #78933	18	200	200	78
PROPYLENE GLYCOL METHYL ETHER 1 METHOXY 2 PROPANOL CAS #107982	12	100	NA	11

* Values given are in mg/M^3.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M^3.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 7.13 lbs. VOLUME PERCENT VOLATILE 100

BOILING RANGE 172°F - 262°F VOC OF MATERIAL 854 gms./l.

EVAPORATION RATE — Slower than Ether

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.
VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 21°F TCC LEL 1.27

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC):

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Nasal and respiratory irritant.
—Lassitude, loss of appetite, and a bad taste may be noted at high concentrations.
—Mild allergen.
—Narcotic effects have been noted.
—Corneal effects may occur.

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Primary Route(s) of Entry (x) skin (x) breathing (x) swallowing

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 11-13-1987

SECTION I

MANUFACTURER U. S. PAINT
DIVISION OF GROW GROUP, INCORPORATED
831 S. 21st Street
St. Louis, Missouri 63103

INFORMATION (314) 621-0525

EMERGENCY CHEMTREC --- 1-800-424-9300

PRODUCT CLASS SOLVENT BLEND

TRADE NAME AWL-PREP™ Surface Cleaner

CODE T0008

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20°C)
DENATURED ETHYL ALCOHOL ETHANOL CAS #64175	100	1000	1000	40

* Values given are in mg/M³.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M³.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 6.59 lbs. VOLUME PERCENT VOLATILE 100

BOILING RANGE 167°F — 172°F VOC OF MATERIAL 790 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY ——— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.
VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 41°F TCC LEL 3.30

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC):

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.

CARCINOGENIC? ( ) YES ( ) IARC ( ) NTP ( ) OSHA
(X) NO

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

PRIMARY ROUTE(S) OF ENTRY (X) SKIN (X) BREATHING (X) SWALLOWING

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 12-14-1987

SECTION I

MANUFACTURER U. S. PAINT
DIVISION OF GROW GROUP, INCORPORATED
831 S. 21st Street
St. Louis, Missouri 63103

INFORMATION (314) 621-0525

EMERGENCY CHEMTREC --- 1-800-424-9300

PRODUCT CLASS SOLVENT BLEND

TRADE NAME AWL-SPAR® Spar Varnish Reducer

CODE T0016

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20°C)
PETROLEUM DISTILLATES ODORLESS MINERAL SPIRITS CAS #64742-88-7	100	100	500	2

* Values given are in mg/M³.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M³.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 6.50 lbs. VOLUME PERCENT VOLATILE 100

BOILING RANGE 305°F — 395°F VOC OF MATERIAL 779 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY ——— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

WARNING! — COMBUSTIBLE.

FLASH POINT 120°F TCC LEL 1.00

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self-contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC):

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Can cause irritation to mucous membranes.
—Effects peripheral nervous system.
—High vapors may result in central nervous system depression.
—Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.
—Coma may result from overexposure.

CARCINOGENIC? ( ) YES ( ) IARC ( ) NTP ( ) OSHA
(X) NO

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

PRIMARY ROUTE(S) OF ENTRY (X) SKIN (X) BREATHING (X) SWALLOWING

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 06-04-1987

SECTION I

MANUFACTURER	U. S. PAINT DIVISION OF GROW GROUP, INCORPORATED 831 S. 21st Street St. Louis, Missouri 63103
INFORMATION	(314) 621-0525
EMERGENCY	CHEMTREC — 1-800-424-9300
PRODUCT CLASS	SOLVENT BLEND
TRADE NAME	MEDIUM EVAPORATING URETHANE REDUCER AND REDUCER FOR 85-A-1™ MAINTENANCE FINISHER AND 85-A-3™ MAINTENANCE PRIMER
CODE	T0022

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20° C)
ETHYL 3 ETHOXYPROPIONATE ETHYL 3 ETHOXYPROPIONATE CAS #763699	100	NE	NE	1

* Values given are in mg/M³.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M³.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 7.91 lbs. VOLUME PERCENT VOLATILE 100

BOILING RANGE 329° F VOC OF MATERIAL 948 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY ——— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

WARNING! — COMBUSTIBLE.

FLASH POINT 136° F TCC LEL 1.05

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC)

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

PRIMARY ROUTE(S) OF ENTRY (X) SKIN (X) BREATHING (X) SWALLOWING

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 06-04-1987

SECTION I

MANUFACTURER	U. S. PAINT DIVISION OF GROW GROUP, INCORPORATED 831 S. 21st Street St. Louis, Missouri 63103
INFORMATION	(314) 621-0525
EMERGENCY	CHEMTREC — 1-800-424-9300
PRODUCT CLASS	SOLVENT BLEND
TRADE NAME	REDUCER FOR URETHANE PRIMERS
CODE	T0023

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20°C)
TOLUENE METHYL BENZENE CAS #108883	5	100	200	23
NORMAL BUTYL ACETATE BUTYL ETHANOATE CAS #123864	6	150	150	10
ETHYL ACETATE ETHYL ETHANOATE CAS #141786	37	400	400	86
METHYL ETHYL KETONE 2-BUTANONE CAS #78933	39	200	200	78
ETHYL 3 ETHOXYPROPIONATE ETHYL 3 ETHOXYPROPIONATE CAS #763699	13	NE	NE	1

* Values given are in mg/M³.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M³.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 7.21 lbs. VOLUME PERCENT VOLATILE 100

BOILING RANGE 168° F — 329° F VOC OF MATERIAL 864 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY ——— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.
VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 21° F TCC LEL 1.05

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC)

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Can cause irritation to mucous membranes.
—Lassitude, loss of appetite, and a bad taste may be noted at high concentrations.
—Mild allergen.
—Narcotic effects have been noted.
—May cause injury to kidneys and liver.
—Corneal effects may occur.

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

PRIMARY ROUTE(S) OF ENTRY (X) SKIN (X) BREATHING (X) SWALLOWING

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 06-04-1987

SECTION I

MANUFACTURER U. S. PAINT
DIVISION OF GROW GROUP, INCORPORATED
831 S. 21st Street
St. Louis, Missouri 63103

INFORMATION (314) 621-0525

EMERGENCY CHEMTREC — 1-800-424-9300

PRODUCT CLASS SOLVENT BLEND

TRADE NAME SLOW DRYING REDUCER FOR BRUSH APPLIED EPOXY PRIMERS AND URETHANE TOPCOATS

CODE T0031

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20°C)
ETHYL 3 ETHOXYPROPIONATE ETHYL 3 ETHOXYPROPIONATE CAS #763699	100	NE	NE	1

* Values given are in mg/M³.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M³.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 7.91 lbs. VOLUME PERCENT VOLATILE 100

BOILING RANGE 329°F VOC OF MATERIAL 948 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY ——— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

WARNING! — COMBUSTIBLE.

FLASH POINT 136°F TCC LEL 1.05

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC)

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

PRIMARY ROUTE(S) OF ENTRY (X) SKIN (X) BREATHING (X) SWALLOWING

FIRST AID:

IN CASE OF SKIN CONTACT: Wash area thoroughly with soap and water. Remove soiled clothing. Get medical assistance if irritation persists. Wash clothing before reuse.

IN CASE OF EYE CONTACT: Flush with large amounts of water for at least 15 minutes. Get medical assistance.

IF SWALLOWED: GET MEDICAL ATTENTION IMMEDIATELY. Induce vomiting.

IF INHALED: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, summon medical assistance immediately. If breathing ceases, restore using approved CPR techniques and summon medical help immediately.

SECTION VI — REACTIVITY DATA

HAZARDOUS POLYMERIZATION — Can not occur.

STABILITY — Stable.

MATERIALS TO AVOID

Excess heat and/or oxidizing materials.

HAZARDOUS DECOMPOSITION

May decompose into fumes containing carbon monoxide and carbon dioxide.

SECTION VII — SPILL OR LEAK PROCEDURES

SMALL SPILL Absorb liquid on inert material such as paper, vermiculite, floor absorbent, and transfer to hood.

LARGE SPILL Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, contain area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be absorbed with inert materials such as sand, clay, earth, or floor absorbent, and shoveled into containers with non-sparking tools. Prevent run-off to sewers, streams, or other bodies of water. If run-off occurs, notify the proper authorities as required that a spill has occurred.

WASTE DISPOSAL METHOD

Allow volatile portion to evaporate in hood being sure to allow sufficient time for vapors to completely clear hood duct work. Dispose of contaminated absorbent, container and unused contents in accordance with local, state, and federal regulations. Do not incinerate closed containers.

SECTION VIII — PROTECTIVE EQUIPMENT

VENTILATION/RESPIRATORY PROTECTION

Use only with adequate ventilation. Maintain continuous flow of fresh air. Do not breathe vapors, spray mists, or sanding dusts. Wear appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application unless air monitoring demonstrates vapor, mist, and particulate levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Engineering or administrative controls should be implemented to reduce exposure.
Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

PERSONAL PROTECTIVE EQUIPMENT

Do not get in eyes, on skin, or on clothing. Use solvent resistant safety eyewear with splash guards. Solvent impermeable gloves, clothing, and boots are recommended to prevent skin contact.

SECTION IX — SPECIAL PRECAUTIONS AND ADDITIONAL COMMENTS

Keep closure tight and upright to prevent leakage. Keep container closed when not in use. Do not store above 120° F. Do not transfer contents to bottles or other unlabeled containers.

Containers of this material may be hazardous when emptied because they retain product residues (vapor, liquid, and/or solid). All hazard precautions given in this data sheet must be observed.

IMPORTANT!!
This product may be blended with other products prior to use. Read all warnings and precautions on the labels of all products being blended as the combination may contain the hazards of each component.

NON-WARRANTY
The information presented herein, while not guaranteed, is to the best of our knowledge true and accurate. No warranty or guarantee expressed or implied is made regarding the performance of any product, since the manner of use is beyond our control. No suggestion for product use, nor anything contained herein, shall be construed as a recommendation for its use in infringement of any existing patent, and Grow Group assumes no responsibility or liability for operations that do infringe any such patents.

FOR INDUSTRIAL USE ONLY
By professional, trained personnel using proper equipment. Not intended for sale to, or use by, the general public.

USP-2
10-14-85
R.12-12-85

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 06-04-1987

SECTION I

MANUFACTURER	U. S. PAINT DIVISION OF GROW GROUP, INCORPORATED 831 S. 21st Street St. Louis, Missouri 63103
INFORMATION	(314) 621-0525
EMERGENCY	CHEMTREC — 1-800-424-9300
PRODUCT CLASS	SOLVENT BLEND
TRADE NAME	AWLGARD® REDUCER
CODE	T0035

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20°C)
ETHYL 3 ETHOXYPROPIONATE ETHYL 3 ETHOXYPROPIONATE CAS #763699	33	NE	NE	1
NORMAL BUTYL ACETATE BUTYL ETHANOATE CAS #123864	37	150	150	10
ISOPROPYL ACETATE 2-METHYL ETHYL ETHANOATE CAS #108214	30	250	250	48

* Values given are in mg/M³.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M³.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 7.48 lbs. VOLUME PERCENT VOLATILE 100

BOILING RANGE 184°F — 329°F VOC OF MATERIAL 896 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY ——— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.
VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 40°F TCC LEL 1.05

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC)

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Mild allergen.
—Narcotic effects have been noted.
—May cause injury to kidneys and liver.

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

PRIMARY ROUTE(S) OF ENTRY (X) SKIN (X) BREATHING (X) SWALLOWING

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 01-06-1988

SECTION I

MANUFACTURER U. S. PAINT
DIVISION OF GROW GROUP, INCORPORATED
831 S. 21st Street
St. Louis, Missouri 63103

INFORMATION (314) 621-0525

EMERGENCY CHEMTREC --- 1-800-424-9300

PRODUCT CLASS SOLVENT BLEND

TRADE NAME ULTRA-BUILD® Reducer and Reducer for Epoxy Primers

CODE T0073

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20°C)
TOLUENE METHYL BENZENE CAS #108883	50	100	200	23
METHYL ISOBUTYL KETONE 4-METHYL 2-PENTANONE CAS #108101	50	50	100	15

* Values given are in mg/M³.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M³.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 6.94 lbs. VOLUME PERCENT VOLATILE 100

BOILING RANGE 230°F — 244°F VOC OF MATERIAL 832 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY ---- Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.

VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 40°F TCC LEL 1.27

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation. May also have other central nervous system effects.
SWALLOWING	INGESTION IS HARMFUL and can cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC)

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Lassitude, loss of appetite, and a bad taste may be noted at high concentrations.
—High concentration of vapors may cause confusion and central nervous system depression.
—Narcotic effects have been noted.
—May cause injury to kidneys and liver.

CARCINOGENIC? ( ) YES ( ) IARC ( ) NTP ( ) OSHA
(X) NO

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

PRIMARY ROUTE(S) OF ENTRY (X) SKIN (X) BREATHING (X) SWALLOWING

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 06-04-1987

SECTION I

MANUFACTURER	U. S. PAINT DIVISION OF GROW GROUP, INCORPORATED 831 S. 21st Street St. Louis, Missouri 63103
INFORMATION	(314) 621-0525
EMERGENCY	CHEMTREC — 1-800-424-9300
PRODUCT CLASS	SOLVENT BLEND
TRADE NAME	REDUCER FOR ALUMIGARD™ FILIFORM CORROSION RESISTANT NON-SANDING PRIMER
CODE	T0086

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20°C)
TOLUENE METHYL BENZENE CAS #108883	5	100	200	23
NORMAL BUTYL ACETATE BUTYL ETHANOATE CAS #123864	6	150	150	10
ETHYL ACETATE ETHYL ETHANOATE CAS #141786	36	400	400	86
METHYL ETHYL KETONE 2-BUTANONE CAS #78933	39	200	200	78
ETHYL 3 ETHOXYPROPIONATE ETHYL 3 ETHOXYPROPIONATE CAS #763699	14	NE	NE	1

* Values given are in mg/M^3.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M^3.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 7.21 lbs. VOLUME PERCENT VOLATILE 100

BOILING RANGE 168°F — 329°F VOC OF MATERIAL 864 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY ——— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.
VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 21°F TCC LEL 1.05

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC)

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Can cause irritation to mucous membranes.
—Lassitude, loss of appetite, and a bad taste may be noted at high concentrations.
—Mild allergen.
—Narcotic effects have been noted.
—May cause injury to kidneys and liver.
—Corneal effects may occur.

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

PRIMARY ROUTE(S) OF ENTRY — (X) SKIN — (X) BREATHING — (X) SWALLOWING

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 11-10-1987

SECTION I

MANUFACTURER U. S. PAINT
DIVISION OF GROW GROUP, INCORPORATED
831 S. 21st Street
St. Louis, Missouri 63103

INFORMATION (314) 621-0525

EMERGENCY CHEMTREC --- 1-800-424-9300

PRODUCT CLASS SOLVENT REDUCER

TRADE NAME REDUCER FOR AWLGRIP® AWLSTAR™ ANTI-FOULING GOLD LABEL

CODE T0101

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20°C)
NORMAL BUTYL ALCOHOL BUTANOL CAS #71363	50	50	100	6
PETROLEUM DISTILLATES HI-FLASH NAPTHA CAS #64742956	50	50	NE	2

* Values given are in mg/M³.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M³.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 7.02 lbs. VOLUME PERCENT VOLATILE 100

BOILING RANGE 241°F — 361°F VOC OF MATERIAL 841 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY ——— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.
VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 97°F TCC LEL 1.00

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC):

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—May cause injury to kidneys and liver.
—Corneal effects may occur.

CARCINOGENIC? ( ) YES ( ) IARC ( ) NTP ( ) OSHA
(X) NO

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

PRIMARY ROUTE(S) OF ENTRY (X) SKIN (X) BREATHING (X) SWALLOWING

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 10-16-1987

SECTION I

MANUFACTURER: U. S. PAINT
DIVISION OF GROW GROUP, INCORPORATED
831 S. 21st Street
St. Louis, Missouri 63103

INFORMATION: (314) 621-0525

EMERGENCY: CHEMTREC — 1-800-424-9300

PRODUCT CLASS: SOLVENT BLEND

TRADE NAME: METAL ADHESION LACQUER THINNER

CODE: T0013

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20°C)
PETROLEUM DISTILLATES VM&P NAPHTHA RULE 66 CAS #100	3	100	500	13
METHYL ETHYL KETONE 2-BUTANONE CAS #78933	6	200	200	78
TOLUENE METHYL BENZENE CAS #108883	54	100	200	23
NORMAL BUTYL ACETATE BUTYL ETHANOATE CAS #123864	19	150	150	10
NORMAL BUTYL ALCOHOL BUTANOL CAS #71363	2	50	100	6
ISOPROPYL ALCOHOL 2-PROPANOL CAS #67630	15	400	400	33

* Values given are in mg/M³.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M³.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 7.10 lbs.

VOLUME PERCENT VOLATILE 99

BOILING RANGE 172°F — 272°F

VOC OF MATERIAL 850 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY ——— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.
VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 21°F TCC

LEL 1.10

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC):

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Can cause irritation to mucous membranes.
—Inhalation of concentrated vapors causes intoxications resembling that from alcohol.
—Nasal and respiratory irritant.
—Lassitude, loss of appetite, and a bad taste may be noted at high concentrations.
—Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.
—Hemorrhages into various vital organs have been noted.
—Mild allergen.
—Narcotic effects have been noted.
—May cause injury to kidneys and liver.
—Corneal effects may occur.
—Coma may result from overexposure.

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 11-10-1987

SECTION I

MANUFACTURER U. S. PAINT
DIVISION OF GROW GROUP, INCORPORATED
831 S. 21st Street
St. Louis, Missouri 63103

INFORMATION (314) 621-0525

EMERGENCY CHEMTREC --- 1-800-424-9300

PRODUCT CLASS SOLVENT BLEND

TRADE NAME Fast Evaporating Reducer

CODE T0015

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20°C)
TOLUENE METHYL BENZENE CAS #108883	100	100	200	23

* Values given are in mg/M³.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M³.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 7.24 lbs. VOLUME PERCENT VOLATILE 100

BOILING RANGE 230°F — 232°F VOC OF MATERIAL 868 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY ——— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.
VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 40°F TCC LEL 1.27

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC):

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Lassitude, loss of appetite, and a bad taste may be noted at high concentrations.

CARCINOGENIC? ( ) YES ( ) IARC ( ) NTP ( ) OSHA
(X) NO

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

PRIMARY ROUTE(S) OF ENTRY (X) SKIN (X) BREATHING (X) SWALLOWING

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 06-05-1987

SECTION I

MANUFACTURER U. S. PAINT
DIVISION OF GROW GROUP, INCORPORATED
831 S. 21st Street
St. Louis, Missouri 63103

INFORMATION (314) 621-0525

EMERGENCY CHEMTREC — 1-800-424-9300

PRODUCT CLASS SOLVENT BLEND

TRADE NAME MIL Spec Reducer for MIL Spec Epoxy Primer S9001 Meets Mil-T-81772

CODE T0049

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20°C)
PROPYLENE GLYCOL METHYL ETHER 1 METHOXY 2 PROPANOL CAS #107982	31	100	NE	11
METHYL ISOBUTYL KETONE 4-METHYL 2-PENTANONE CAS #108101	18	50	100	15
METHYL ETHYL KETONE 2-BUTANONE CAS #78933	51	200	200	78

* Values given are in mg/M³.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M³.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 6.97 lbs. VOLUME PERCENT VOLATILE 100

BOILING RANGE 172°F – 244°F VOC OF MATERIAL 835 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY ——— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.
VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 21°F TCC LEL 1.40

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC)

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Nasal and respiratory irritant.
—Narcotic effects have been noted.

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

PRIMARY ROUTE(S) OF ENTRY (X) SKIN (X) BREATHING (X) SWALLOWING

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 12-14-1987

SECTION I

MANUFACTURER U. S. PAINT
DIVISION OF GROW GROUP, INCORPORATED
831 S. 21st Street
St. Louis, Missouri 63103

INFORMATION (314) 621-0525

EMERGENCY CHEMTREC --- 1-800-424-9300

PRODUCT CLASS SOLVENT BLEND

TRADE NAME GRIMCO High Flash Naphtha

CODE T0050

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20° C)
PETROLEUM DISTILLATE SC-150 HIGH SOLVENCY CAS #64742-95-6	100	35	NE	1

* Values given are in mg/M³.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M³.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 7.40 lbs. VOLUME PERCENT VOLATILE 100

BOILING RANGE 361°F — 405°F VOC OF MATERIAL 887 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY —— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

WARNING! — COMBUSTIBLE.

FLASH POINT 140°F TCC LEL 1.00

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC):

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Can cause irritation to mucous membranes.
—Effects peripheral nervous system.
—High vapors may result in central nervous system depression.
—Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.
—Coma may result from overexposure.

CARCINOGENIC? ( ) YES ( ) IARC ( ) NTP ( ) OSHA
(X) NO

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

PRIMARY ROUTE(S) OF ENTRY (X) SKIN (X) BREATHING (X) SWALLOWING

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 06-04-1987

SECTION I

MANUFACTURER U. S. PAINT
DIVISION OF GROW GROUP, INCORPORATED
831 S. 21st Street
St. Louis, Missouri 63103

INFORMATION (314) 621-0525

EMERGENCY CHEMTREC — 1-800-424-9300

PRODUCT CLASS SOLVENT BLEND

TRADE NAME REDUCER FOR ELECTRO-PRIME™ PRIMER

CODE T0055

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20° C)
ETHYL 3 ETHOXYPROPIONATE ETHYL 3 ETHOXYPROPIONATE CAS #763699	24	NE	NE	1
NORMAL BUTYL ALCOHOL BUTANOL CAS #71363	3	50	100	6
XYLENE DIMETHYL BENZENE CAS #1330207	73	100	100	10

* Values given are in mg/M³.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M³.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 7.38 lbs. VOLUME PERCENT VOLATILE 100

BOILING RANGE 241° F — 329° F VOC OF MATERIAL 884 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY —— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.
VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 82° F TCC LEL 1.05

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC)

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Can cause irritation to mucous membranes.
—Corneal effects may occur.

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

PRIMARY ROUTE(S) OF ENTRY (X) SKIN (X) BREATHING (X) SWALLOWING

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 11-10-1987

SECTION I

MANUFACTURER U. S. PAINT
DIVISION OF GROW GROUP, INCORPORATED
831 S. 21st Street
St. Louis, Missouri 63103

INFORMATION (314) 621-0525

EMERGENCY CHEMTREC --- 1-800-424-9300

PRODUCT CLASS SOLVENT BLEND

TRADE NAME Retarding Reducer for F1023 Fast Dry
Acrylic Urethane Topcoat

CODE T0076

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20°C)
ALIPHATIC KETONE 2-4 PENTANEDIONE CAS #123546	21	NE	NE	7
METHYL ETHYL KETONE 2-BUTANONE CAS #78933	79	200	200	78

* Values given are in mg/M³.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M³.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 6.96 lbs. VOLUME PERCENT VOLATILE 100

BOILING RANGE 172°F — 285°F VOC OF MATERIAL 834 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY ——— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.
VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 21°F TCC LEL 1.80

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC):

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Affects peripheral nervous system.

CARCINOGENIC? ( ) YES ( ) IARC ( ) NTP ( ) OSHA
(X) NO

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

PRIMARY ROUTE(S) OF ENTRY (X) SKIN (X) BREATHING (X) SWALLOWING

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 12-15-1987

SECTION I

MANUFACTURER U. S. PAINT
DIVISION OF GROW GROUP, INCORPORATED
831 S. 21st Street
St. Louis, Missouri 63103

INFORMATION (314) 621-0525

EMERGENCY CHEMTREC --- 1-800-424-9300

PRODUCT CLASS SOLVENT BLEND

TRADE NAME Reducer For Zinc Chromate Primers S4010 and S9010

CODE T0077

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20° C)
ISOBUTANOL 2 BUTANOL CAS #78831	13	50	100	9
PETROLEUM DISTILLATES VM&P NAPHTHA RULE 66 CAS #8030306	59	100	500	13
TOLUENE METHYL BENZENE CAS #108883	17	100	200	23
NORMAL BUTYL ACETATE BUTYL ETHANOATE CAS #123864	11	150	150	10

* Values given are in mg/M³.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M³.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 6.61 lbs. VOLUME PERCENT VOLATILE 100

BOILING RANGE 225°F — 272°F VOC OF MATERIAL 792 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY ——— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.

VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 40°F TCC LEL 1.10

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC):

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Can cause irritation to mucous membranes.
—Inhalation of concentrated vapors causes intoxication resembling that from alcohol.
—Effects peripheral nervous system.
—Lassitude, loss of appetite, and a bad taste may be noted at high concentrations.
—High vapors may result in central nervous system depression.
—Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.
—Hemorrhages into various vital organs have been noted.
—Mild allergen.
—Narcotic effects have been noted.
—Coma may result from overexposure.

CARCINOGENIC? ( ) YES ( ) IARC ( ) NTP ( ) OSHA
(X) NO

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

PRIMARY ROUTE(S) OF ENTRY (X) SKIN (X) BREATHING (X) SWALLOWING

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 11-10-1987

SECTION I

MANUFACTURER	U. S. PAINT DIVISION OF GROW GROUP, INCORPORATED 831 S. 21st Street St. Louis, Missouri 63103
INFORMATION	(314) 621-0525
EMERGENCY	CHEMTREC --- 1-800-424-9300
PRODUCT CLASS	SOLVENT BLEND
TRADE NAME	ELECTRO-PRIME™ Equipment Cleaner
CODE	T0078

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20°C)
METHYL ETHYL KETONE 2-BUTANONE CAS #78933	33	200	200	78
TOLUENE METHYL BENZENE CAS #108883	35	100	200	23
ISOPROPYL ALCOHOL 2-PROPANOL CAS #67630	32	400	400	33

* Values given are in mg/M³.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M³.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 6.83 lbs. VOLUME PERCENT VOLATILE 100

BOILING RANGE 172°F — 232°F VOC OF MATERIAL 819 gms./l.

EVAPORATION RATE — Slower than Ether

VAPOR DENSITY ---- Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.
VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 21°F TCC LEL 1.27

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC):

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Nasal and respiratory irritant.
—Lassitude, loss of appetite, and a bad taste may be noted at high concentrations.
—Narcotic effects have been noted.
—Affects peripheral nervous system.
—Corneal effects may occur.

CARCINOGENIC? ( ) YES ( ) IARC ( ) NTP ( ) OSHA
(X) NO

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

PRIMARY ROUTE(S) OF ENTRY (X) SKIN (X) BREATHING (X) SWALLOWING

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 12-14-1987

SECTION I

MANUFACTURER U. S. PAINT
DIVISION OF GROW GROUP, INCORPORATED
831 S. 21st Street
St. Louis, Missouri 63103

INFORMATION (314) 621-0525

EMERGENCY CHEMTREC --- 1-800-424-9300

PRODUCT CLASS SOLVENT BLEND

TRADE NAME Gun and Equipment Cleaner

CODE T0081

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20°C)
METHYL ETHYL KETONE 2-BUTANONE CAS #78933	48	200	200	78
XYLENE DIMETHYL BENZENE CAS #1330-20-7	52	100	100	10

* Values given are in mg/M³.

NA — Not available
NE — Not established

Care should be taken when sanding pigmented paints. Airborne nuisance particulates have an ACGIH TLV of total dust = 10 mg/M³.

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 6.97 lbs. VOLUME PERCENT VOLATILE 100

BOILING RANGE 172°F — 288°F VOC OF MATERIAL 835 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY ——— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.

VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 21°F TCC LEL 1.10

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC):

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Can cause irritation to mucous membranes.
—Effects peripheral nervous system.
—May cause injury to kidneys and liver.
—Corneal effects may occur.

CARCINOGENIC? ( ) YES ( ) IARC ( ) NTP ( ) OSHA
(X) NO

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

PRIMARY ROUTE(S) OF ENTRY (X) SKIN (X) BREATHING (X) SWALLOWING

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 02-18-1988

SECTION I

MANUFACTURER U. S. PAINT
DIVISION OF GROW GROUP, INCORPORATED
831 S. 21st Street
St. Louis, Missouri 63103

INFORMATION (314) 621-0525

EMERGENCY CHEMTREC --- 1-800-424-9300

PRODUCT CLASS SOLVENT BLEND

TRADE NAME AWL-PREP PLUS™ WAX AND GREASE REMOVER

CODE T0115

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20°C)
PETROLEUM DISTILLATES VM&P NAPHTHA RULE 66 CAS #64742-89-8	39	100	500	13
XYLENE DIMETHYL BENZENE CAS #1330-20-7	61	100	100	10

* Values given are in mg/M³.

NA — Not available
NE — Not established

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 6.85 lbs. VOLUME PERCENT VOLATILE 100

BOILING RANGE 247°F — 288°F VOC OF MATERIAL 821 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY ——— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.
VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 52°F TCC LEL 1.10

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC)

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Can cause irritation to mucous membranes.
—Inhalation of concentrated vapors causes intoxication resembling that from alcohol.
—High vapors may result in central nervous system depression.
—Aspiration of material into the lungs can cause chemical pneumonitis, pulmonary edema, and hemorrhage.
—Hemorrhages into various vital organs have been noted.
—May cause injury to kidneys and liver.
—Corneal effects may occur.
—Coma may result from overexposure.

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

CARCINOGENIC? ( ) YES ( ) IARC ( ) NTP ( ) OSHA
(X) NO

PRIMARY ROUTE(S) OF ENTRY (X) SKIN (X) BREATHING (X) SWALLOWING

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 02-05-1988

SECTION I

MANUFACTURER U. S. PAINT
DIVISION OF GROW GROUP, INCORPORATED
831 S. 21st Street
St. Louis, Missouri 63103

INFORMATION (314) 621-0525

EMERGENCY CHEMTREC --- 1-800-424-9300

PRODUCT CLASS SOLVENT BLEND

TRADE NAME Fast Evaporating A.R.™ (Activated) Reducer
For Spray Applied Urethane Topcoats

CODE AR001

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20°C)
TEOF TRIETHYL ORTHOFORMATE CAS #00122-51-0	3	NE	NE	3
ETHYL ACETATE ETHYL ETHANOATE CAS #141786	12	400	400	86
METHYL ETHYL KETONE 2-BUTANONE CAS #78933	33	200	200	78
NORMAL BUTYL ACETATE BUTYL ETHANOATE CAS #123864	12	150	150	10
ETHYL 3 ETHOXYPROPIONATE ETHYL 3 ETHOXYPROPIONATE CAS #763699	38	NE	NE	1
TOLUENE METHYL BENZENE CAS #108883	2	100	200	23

* Values given are in mg/M³.

NA — Not available
NE — Not established

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 7.34 lbs. VOLUME PERCENT VOLATILE 100

BOILING RANGE 168°F — 329°F VOC OF MATERIAL 880 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY ——— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.
VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 21°F TCC LEL 1.05

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC)

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Can cause irritation to mucous membranes.
—Lassitude, loss of appetite, and a bad taste may be noted at high concentrations.
—High vapors may result in central nervous system depression.
—Narcotic effects have been noted.
—May cause injury to kidneys and liver.
—Coma may result from overexposure.

CARCINOGENIC? ( ) YES ( ) IARC ( ) NTP ( ) OSHA
(X) NO

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

PRIMARY ROUTE(S) OF ENTRY (X) SKIN (X) BREATHING (X) SWALLOWING

FIRST AID:

IN CASE OF SKIN CONTACT: Wash area thoroughly with soap and water. Remove soiled clothing. Get medical assistance if irritation persists. Wash clothing before reuse.

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 02-05-1988

SECTION I

MANUFACTURER U. S. PAINT
DIVISION OF GROW GROUP, INCORPORATED
831 S. 21st Street
St. Louis, Missouri 63103

INFORMATION (314) 621-0525

EMERGENCY CHEMTREC --- 1-800-424-9300

PRODUCT CLASS SOLVENT BLEND

TRADE NAME Very Fast Evaporating A.R.™ (Activated) Reducer
For Spray Applied Urethane Topcoats

CODE AR002

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20°C)
TEOF TRIETHYL ORTHOFORMATE CAS #00122-51-0	4	NE	NE	3
METHYL ETHYL KETONE 2-BUTANONE CAS #78933	94	200	200	78
TOLUENE METHYL BENZENE CAS #108883	2	100	200	23

* Values given are in mg/M³.

NA — Not available
NE — Not established

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 6.76 lbs. VOLUME PERCENT VOLATILE 100

BOILING RANGE 172° F — 295° F VOC OF MATERIAL 809 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY ——— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.
VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 21° F TCC LEL 1.27

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC)

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Lassitude, loss of appetite, and a bad taste may be noted at high concentrations.
—High vapors may result in central nervous system depression.
—May cause injury to kidneys and liver.
—Coma may result from overexposure.

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

CARCINOGENIC? ( ) YES ( ) IARC ( ) NTP ( ) OSHA
(X) NO

PRIMARY ROUTE(S) OF ENTRY (X) SKIN (X) BREATHING (X) SWALLOWING

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 01-15-1988

SECTION I

MANUFACTURER — U. S. PAINT
DIVISION OF GROW GROUP, INCORPORATED
831 S. 21st Street
St. Louis, Missouri 63103

INFORMATION — (314) 621-0525

EMERGENCY — CHEMTREC --- 1-800-424-9300

PRODUCT CLASS — SOLVENT BLEND

TRADE NAME — Standard A.R.™ (Activated) Reducer
For Spray Applied Urethane Topcoats

CODE — AR003

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20°C)
TEOF TRIETHYL ORTHOFORMATE CAS #00122-51-0	3	NE	NE	3
ETHYL 3 ETHOXYPROPIONATE ETHYL 3 ETHOXYPROPIONATE CAS #763699	49	NE	NE	1
ETHYL ACETATE ETHYL ETHANOATE CAS #141786	46	400	400	86
TOLUENE METHYL BENZENE CAS #108883	2	100	200	23

* Values given are in mg/M³.

NA — Not available
NE — Not established

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 7.69 lbs. — VOLUME PERCENT VOLATILE 100

BOILING RANGE 168°F — 329°F — VOC OF MATERIAL 921 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY ——— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.
VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 24°F TCC — LEL 1.05

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC)

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Can cause irritation to mucous membranes.
—Lassitude, loss of appetite, and a bad taste may be noted at high concentrations.
—High vapors may result in central nervous system depression.
—Narcotic effects have been noted.
—May cause injury to kidneys and liver.
—Coma may result from overexposure.

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

CARCINOGENIC? ( ) YES ( ) IARC ( ) NTP ( ) OSHA
(X) NO

PRIMARY ROUTE(S) OF ENTRY (X) SKIN (X) BREATHING (X) SWALLOWING

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS, AND RELATED MATERIALS

DATE OF PREPARATION — 02-05-1988

SECTION I

MANUFACTURER	U. S. PAINT DIVISION OF GROW GROUP, INCORPORATED 831 S. 21st Street St. Louis, Missouri 63103
INFORMATION	(314) 621-0525
EMERGENCY	CHEMTREC --- 1-800-424-9300
PRODUCT CLASS	SOLVENT BLEND
TRADE NAME	Slow Evaporating A.R.™ (Activated) Reducer For Brush Applied Urethane Topcoats
CODE	AR031

SECTION II — HAZARDOUS INGREDIENTS

INGREDIENT (COMMON NAME) (CHEMICAL NAME)	WEIGHT %	ACGIH TLV (PPM)	OSHA PEL (PPM)	VAPOR PRESSURE (mm Hg @ 20°C)
TEOF TRIETHYL ORTHOFORMATE CAS #00122-51-0	3	NE	NE	3
ETHYL 3 ETHOXYPROPIONATE ETHYL 3 ETHOXYPROPIONATE CAS #763699	95	NE	NE	1
TOLUENE METHYL BENZENE CAS #108883	2	100	200	23

* Values given are in mg/M³.

NA — Not available
NE — Not established

This material does not contain intentionally added ingredients which are based on compounds of antimony, arsenic, cadmium, lead, mercury, selenium, or water soluble barium.

SECTION III — PHYSICAL DATA

WEIGHT PER GALLON 7.88 lbs. VOLUME PERCENT VOLATILE 100

BOILING RANGE 230°F — 329°F VOC OF MATERIAL 944 gms./l.

EVAPORATION RATE — Slower than Ether
VAPOR DENSITY —— Heavier than Air

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

DANGER! — FLAMMABLE.
VAPORS MAY CAUSE FLASH FIRE.

FLASH POINT 40°F TCC LEL 1.05

EXTINGUISHING MEDIA — Dry Chemical or Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS — Keep away from heat, sparks, and flame. Do not smoke. Extinguish all pilot lights and turn off all sources of ignition, including heaters, fans, and other non-explosion-proof electrical equipment, during use and until all vapors are gone. Vapors may ignite explosively. Vapors may spread long distances and beyond closed doors. Prevent build up of vapors by maintaining a continuous flow of fresh air.

SPECIAL FIREFIGHTING PROCEDURES — Self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. In case of fire, use CO_2, Dry Chemical, Foam, or other approved method for treating a Class B fire. Summon professional firefighters.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE)

EYES	Can cause severe irritation, redness, tearing, and blurred vision.
SKIN	Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.
BREATHING	Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.
SWALLOWING	INGESTION IS HARMFUL and can cause a burning sensation, nausea, vomiting, and diarrhea.

ADDITIONAL EFFECTS OF OVEREXPOSURE (CHRONIC)

—Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause diseases of the lungs.
—Lassitude, loss of appetite, and a bad taste may be noted at high concentrations.
—High vapors may result in central nervous system depression.
—May cause injury to kidneys and liver.
—Coma may result from overexposure.

WARNING! Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

CARCINOGENIC? ( ) YES ( ) IARC ( ) NTP ( ) OSHA
(X) NO

PRIMARY ROUTE(S) OF ENTRY (X) SKIN (X) BREATHING (X) SWALLOWING

JAN-16-91 WED 12 3

HANGAR 119 FOAM

Hangar 119 file 92 date

Material Safety Data Sheet for

Aer-O-Foam 3% Regular

CNF Chubb National Foam

Section I

Manufacturer's Name and Address:

Chubb National Foam, Inc.
150 Gordon Drive
P. O. Box 270
Exton, PA 19341-1350

Emergency Telephone:

(215) 363-1400

Date Prepared: 8/20/90

Section II Hazardous Ingredients/Identity Information

The specific chemical identities and corresponding weight percents of some substances involved in the formulation of this product are considered a proprietary trade secret and are not disclosed on this MSDS. To comply with the trade secret provisions of existing Community and Worker Right-To-Know laws, generic chemical identities for some of the ingredients in this product have been provided.

Information about the specific chemical identities is available to attending health professionals in the event of a medical emergency. In a non-emergency situation, this information is available to other health professionals, employees or their designated respresentatives, as prescribed by the OSHA Hazard Communication Standard, 29 CFR 1910.1200 and the PA Worker and Community Right-to-Know Act.

Specific/Generic Chemical Identity:	OSHA PEL	ACGIH TLV	Other Limits
Water	None Established	None Established	
Protein Hydrolysate #69430-36-0	None Established	None Established	

This product contains the following substances which appear on the PA Hazardous Substances List. The properties and effects of these substances are disclosed on this MSDS.

Specific/Generic Chemical Identity:	OSHA PEL	ACGIH TLV	Other Limits
Hexylene Glycol; 2 Methyl-2,4 Pentanediol; #107-41-5	25 ppm	25 ppm ceiling limit	
Ferrous Sulfate #7720-78-7	1.0 mg/M^3	1.0 mg/M^3	
Chlorophenol	None Established	None Established	

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR Part 372.

Specific/Generic Chemical Identity:	OSHA PEL	ACGIH TLV	% by Weight
Ethylene Glycol; 1,2 Ethanediol; #107-21-1	50 ppm ceiling limit	50 ppm (vapor) ceiling limit	10 (max)

Material Safety Data Sheet for

Aer-O-Foam 3% Regular

Section III Physical Chemical Characteristics of Product

pH	7.3	Specific Gravity (Water=1)	1.16
Solubility in water	100%	Evaporation Rate (Butyl Acetate=1)	< 1
Vapor Pressure (mm Hg)	N/D	Vapor Density	N/D
Boiling Point	N/D	Melting Point	N/A

Appearance and Odor: Dark brown liquid — Organic odor

N/D denotes Not Determined.

N/A denotes Not Applicable.

Section IV Health Hazard Data

This product contains the following substances, which in their **pure** form, pose the following hazards:

Chemical Ingredients	Routes of Entry Symptoms of Exposure Effects of Inhalation, Ingestion and Skin Absorption:	Listed In NTP, IARC or OSHA:
Hexylene Glycol #107-41-5	May cause eye and skin irritation and nervous system depression. Large amounts may cause nose and throat irritation upon inhalation of vapors, and digestive tract irritation upon ingestion.	Not listed.
Ferrous Sulfate #7720-78-7	Dust and mist are irritant to the respiratory system. Ingestion can cause severe gastrointestinal irritation.	Not listed.
Chlorophenol	Chlorinated phenols are considered to have highly toxic acute, local, and systemic effects. Chronic systemic effects have been observed. In general, phenol poisoning targets the central nervous system. Absorption through skin or inhalation, ingestion may result in nervous disorders and skin eruption.	Not listed.
Ethylene Glycol; #107-21-1	May cause eye irritation upon contact, nose and throat irritation upon inhalation of vapors. Ingestion can result in digestive tract irritation, nervous system depression, visual disturbances, kidney damage, convulsions, or coma. **Animal studies of large doses showed liver and kidney damage and birth defects.**	Not listed.

Material Safety Data Sheet for

Aer-O-Foam 3% Regular

Section IV Health Hazard Data (continued)

Medical Conditions Generally Aggravated by Exposure:
Existing eye or skin sensitivity may be aggravated by exposure.

Emergency First Aid Procedures:

Skin contact: Flush skin with water for 15 minutes. Apply hand cream to restore oils.

Eyes: Flush eyes immediately with copious amounts of water for 15 minutes. Contact physician if problem persists.

Ingestion: If conscious, give victim two glasses of water and induce vomitting. Contact physician immediately.

Section V Fire and Explosion Hazard Data

Flash Point: None (Cleveland Open Cup)

Flammable Limits
LEL: N/A
UEL: N/A

Extinguishing Media: Product is an extiguishing medium.

Special Fire Fighting Procedures: N/A

Unusual Fire and Explosion Hazards: N/A

Section VI Reactivity Data

Stability: Unstable [ ] Stable [X]

Conditions to Avoid: None

Incompatibility; Material to Avoid: None

Hazardous Polymerization: May Occur [ ] Will Not Occur [X]

Material Safety Data Sheet for

Aer-O-Foam 3% Regular

Section VII Control Measures

Concentrate:	Collect spilled concentrate with absorbent material, flush area with water until it no longer foams. Disposal should be in accordance with State or Local regulations.
Foam:	Flush with water and dispose of diluted material according to State or Local regulations.

Section VIII Precautions for Safe Handling and Use

Respiratory Protection:	None required.
Ventilation:	None required.
Protective Clothing:	Rubber or PVC gloves recommended for persons with extreme skin sensitivity or skin lesions and cuts.
Eye Protection:	Safety glasses, goggles, or face shield required.
Work/Hygienic Practices:	Avoid inhalation, ingestion, or skin contact. Avoid contact with eyes.

The information contained herein is furnished without warranty either expressed or implied. This data sheet is not a part of any contract of sale. The information contained herein is believed to be correct or is obtained from sources believed to be generally reliable. However, it is the responsibility of the user of these materials to investigate, understand and comply with federal, state and local guidelines and procedures for safe handling and use of these materials. CNF shall not be liable for any loss or damage arising directly or indirectly from the use of this product and CNF assumes no obligation or liabilities for reliance on the information contained herein or omissions herefrom.

Material Safety Data Sheet for:

HIGH EXPANSION

HANGER 113 & 114

Section I
Manufacturer's Name and Address:

Alison Control Inc.
35 Daniel Road West
Fairfield, New Jersey 07004

Emergency Telephone:

(201) 575-7100

Section II Hazardous Ingredients/Identity Information

The specific chemical identities and corresponding weight percents of some substances involved in the formulation of this product are considered a proprietary trade secret and are not disclosed on this MSDS. To comply with the trade secret provisions of existing Community and Worker Right-To-Know laws, generic chemical identities for some of the ingredients in this product have been provided.

Information about the specific chemical identities is available to attending health professionals in the event of a medical emergency. In a non-emergency situation, this information is available to other health professionals, employees or their designated representative, as prescribed by the OSHA Hazard Communication Standard, 29 CFR 1910.1200 and the PA Worker and Community Right-To-Know Act.

Specific/Generic Chemical Identity:	OSHA PEL	ACGIH TLV	Other Limits
Water	None Established	None Established	
Ethoxylated Alcohol Sulfate	None Established	None Established	
Alkyl Amine Oxide	None Established	None Established	
Lauryl Alcohol #67762-41-8	None Established	None Established	

This product contains the following substance which appears on the PA Hazardous Substances List. The properties and effects of the substance is disclosed on this MSDS.

Specific/Generic Chemical Identity:	OSHA PEL	ACGIH TLV	Other Limits
Acetic Acid #64-19-7	10 ppm	10 ppm STEL 15 ppm	

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR Part 372.

Material Safety Data Sheet for:

HIGH EXPANSION

Specific/Generic Chemical Identity:	OSHA PEL	ACGIH TLV	% by Weight
Butyl Cellosolve; Ethylene Glycol Monobutyl Ether; 2-Butoxycthanol; #111-76-2	25 ppm-skin	25 ppm-skin	35 (max.)

Section III Physical Chemical Characteristics of Product

pH	6.9	Specific Gravity (Water=1)	0.98
Solubility in water	100%	Evaporation Rate (Butyl Acetate=1)	<1
Vapor Pressure (mm Hg)	N/D	Vapor Density	N/D
Boiling Point	N/D	Melting Point	N/A

Appearance and Odor: Pale yellow liquid - mild pleasant odor.

N/D denotes Not Determined
N/A denotes Not Applicable

Section IV Health Hazard Data

This product contains the following substances, which in their pure form, pose the following hazards:

Chemical Ingredients	Routes of Entry Symptoms of Exposure Effects of Inhalation, Ingestion & Skin Absorption:	Listed in NTP, IARC or OSHA:
Butyl Cellosolve #111-76-2	An irritant of the skin and mucous membranes. Can be toxic when absorbed through the skin, ingested, or inhaled. Symptoms are eye, mucous membrane irritation and central nervous system depression. Prolonged exposure may result in blood disorders, pulmonary, or liver and kidney damage.	Not listed.
Acetic Acid #64-19-7	Vapor is a severe irritant to eyes, mucous membranes, and skin. Can cause lacrimation, conjunctivitis, severe burns of the eyes. Exposure to skin can cause dermatitis or ulcers.	Not listed.

Medical Conditions Generally Aggravated by Exposure:
Existing eye or skin sensitivity may be aggravated by exposure.

Material Safety Data Sheet for:

HIGH EXPANSION

Section VIII Precautions for Safe Handling and Use

Respiratory Protection:	Required in confined spaces. Use self-contained breathing apparatus when in confined areas or when fighting fire.
Ventilation:	Adequate ventilation is required.
Protective Clothing:	Wear protective outerwear such as aprons or labcoats to prevent skin absorption. Use PVC, neoprene, or chemically resistant gloves.
Eye Protection:	Safety glasses, face shield or goggles required.
Work/Hygienic Practices:	Avoid inhalation, ingestion, or skin contact. Avoid contact with eyes.

The information contained herein is furnished without warranty either expressed or implied. This data sheet is not a part of any contract of sale. The information contained herein is believed to be correct or is obtained from sources believed to be generally reliable. However, it is the responsibility of the user of these materials to investigate, understand and comply with federal, state and local guidelines and procedures for safe handling and use of these materials. Alison Control shall not be liable for any loss or damage arising directly or indirectly from the use of this product and Alison Control assumes no obligation or liabilities for reliance on the information contained herein or omissions herefrom.

Material Safety Data Sheet for:

HIGH EXPANSION

Emergency First Aid Procedures:

Skin Contact: Remove all contaminated clothing. Flush skin with water for 15 minutes. Contact physician if exposure symptoms are evident.

Eye: Flush eyes immediately with copious amounts of water for 15 minutes. Contact physician immediately.

Ingestion: Contact physician immediately.

Section V Fire and Explosion Hazard Data

Flash Point 172° (Cleveland Open Cup)

Flammable Limits
LEL N/A
UEL N/A

Extinguishing Media: Product is an extinguishing medium.
Special Fire Fighting Procedures: N/A
Unusual Fire and Explosion Hazards: N/A

Section VI Reactivity Data

Stability: Unstable { } Stable { x }

Conditions to Avoid: Avoid temperatures close to flash point. Product is combustible.

Incompatibility; Material to Avoid: N/A

Hazardous Polymerization: May Occur { } Will Not Occur { x }

Section VII Control Measures

Spill or Leak Procedures

Concentrate: Collect spilled concentrate with absorbent material, flush area with water until it no longer foams. Disposal should be in accordance with State and Local regulations.

Foam: Flush with water and dispose of diluted material according to State and Local regulations.

Loctite Corporation

'05 North Mountain Road
Newington, Connecticut 06111
Telephone: (203) 278-1280
Telex: 99348

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Product Name TAK PAK™ ACCELERATOR
Part No. Part of Kit 00216 — 11525, 11527, 11570
Product Type
Formula No.

II. COMPOSITION

Ingredients	% by Wt.	Hazard
Freon TA	99+	TLV = 1000 ppm
N,N-Dialkyltoluidine	<1	Toxic
Hydroquinone	<1	Toxic

III. CHEMICAL AND PHYSICAL PROPERTIES

Vapor Pressure 380 mm at 77°F
Specific Gravity 1.4 at 68°F
Vapor Density 2.6
Boiling Point 110°F
Solubility in Water Slight
pH dna
Appearance Amber Liquid
Odor Mild

IV. TOXICITY AND HEALTH HAZARD DATA

Toxicity Low via ingestion.
Est. Oral LD 50 >5000 mg/kg
TLV 1000 ppm
Est. Dermal LD 50 >2000 mg/kg
Symptoms of Overexposure Headache, dizziness, shortness of breath.

Emergency Treatment Procedures
Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.
Inhalation: Remove to fresh air. If symptoms persist, obtain medical attention.
Skin Contact: Flush with water.
Eye Contact: Flush with water.

Personal Protection
Eyes: Safety glasses or goggles recommended.
Skin: Rubber or plastic gloves recommended.
Ventilation: Provide sufficient ventilation to maintan vapor concentration below TLV.

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TAR TAR ACCELERATOR

V. FLAMMABILITY AND EXPLOSIVE PROPERTIES

Flash point None Method T.C.C.
Explosive Limits (% by volume in air) Lower dna % Upper dna %
Recommended Extinguishing Agents CO_2, Foam, Dry Chemical
Hazardous Products Formed by Fire or Thermal Decomposition: Toxic chlorides and fluorides
Unusual Fire or Explosion Hazards: None
Compressed Gasses Name None
Pressure at Room Temperature

VI. REACTIVITY DATA

Stability [X] Stable [ ] Unstable
Hazardous Polymerization [ ] May Occur [X] Will Not Occur
Hazardous Decomposition Products (non-thermal)
None

Incompatibility None

VII. SPILL OR LEAK AND DISPOSAL PROCEDURES

Steps to be taken in case of spill or leak: Allow to evaporate with good ventilation. Soak up residue with inert absorbent.

Recommended methods of disposal: Bury or incinerate in accordance with EPA and local regulations.

VIII. STORAGE AND HANDLING PROCEDURES

Storage: Store below 110°F.
Handling: No special precautions.

IX. SHIPPING REGULATIONS

Type or Class DOT Unrestricted
IATA Unrestricted

Prepared By: Martin Hauser
Title: Vice President - Environmental Health and Safety
Date: November 1, 1985

Loctite Corporation

705 North Mountain Road
Newington, Connecticut 06111
Telephone: (203) 278-1280
Telex: 99348

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Product Name TAK PAK™ ADHESIVE
Part No. 12292, 12294
Product Type Cyanoacrylate Ester
Formula No. ____

II. COMPOSITION

Ingredients	% by Wt.	Hazard
Ethyl cyanoacrylate	90+	See Section IV. ↓
Poly (methyl methacrylate)*	<10	
Hydroquinone	<0.5	

*Pure poly (methyl methacrylate) has been shown to cause tumors in experimental animals when implanted beneath the skin. In light of the low concentration of this component in the product, it is our best technical judgment that normal use of this product poses no such hazard. These materials are present only to meet OSHA regulations.

III. CHEMICAL AND PHYSICAL PROPERTIES

Vapor Pressure < 0.2 mm at 75°F
Specific Gravity 1.05 at 75°F
Vapor Density ~3
Boiling Point > 300°F
Solubility in Water Polymerized by water
pH dna
Appearance Clear Liquid
Odor Sharp, irritating

IV. TOXICITY AND HEALTH HAZARD DATA

Toxicity Bonds skin rapidly & strongly. Skin & eye irritant.
Est. Oral LD 50 >5000 mg/kg
TLV Est. 2 ppm
Est. Dermal LD 50 >2000 mg/kg
Symptoms of Overexposure Vapor is irritating to eyes and mucous membranes above TLV.

Emergency Treatment Procedures
Ingestion: See instructions on back side for emergency procedures.
Inhalation: Remove to fresh air. Treat symptomatically.
Skin Contact: See instructions on back side for emergency procedures.
Eye Contact: See instructions on back side for emergency procedures.

Personal Protection
Eyes: Safety glasses or goggles recommended.
Skin: Polyethylene gloves recommended. Do not use cotton gloves.
Ventilation: Provide adequate local ventilation to maintain vapor concentration below TLV.

V. FLAMMABILITY AND EXPLOSIVE PROPERTIES

Flash point > 200°F
Method T.C.C.
Explosive Limits (% by volume in air)
Lower dna % Upper dna %
Recommended Extinguishing Agents CO_2, Foam, Dry Chemical
Hazardous Products Formed by Fire or Thermal Decomposition: Irritating organic fragments.
Unusual Fire or Explosion Hazards: None
Compressed Gasses Name None
Pressure at Room Temperature ____

TAK PAK™ ADHESIVE

VI. REACTIVITY DATA

Stability [X] Stable [ ] Unstable
Hazardous Polymerization [ ] May Occur [X] Will Not Occur
Hazardous Decomposition Products (non-thermal)
None

Incompatibility Polymerized by contact with water, alcohols, amines, alkalies.

VII. SPILL OR LEAK AND DISPOSAL PROCEDURES

Steps to be taken in case of spill or leak: Flood with water to polymerize. Soak up with an inert absorbent.

Recommended methods of disposal: Polymerize as above. Landfill or incinerate in accordance with EPA and local regulations.

VIII. STORAGE AND HANDLING PROCEDURES

Storage: Store at or below 75°F to maximize shelf life.

IX. SHIPPING REGULATIONS

Type or Class DOT Not regulated (≤ 1 pint); ORM-A (> 1 pint)
IATA Not regulated; [ORM-A (> 1 pint) in U.S. only]
Proper Shipping Name DOT Not regulated (≤ 1 pint); ORM-A, n.o.s. (> 1 pint)
IATA Not regulated; [ORM-A, n.o.s. (> 1 pint) in U.S. only]

Prepared By: Martin Hauser
Title: Vice President - Environmental Health and Safety
Date: November 1, 1985

Information for First Aid and Casualty on Treatment for Adhesion of Human Skin to Itself if caused by Cyanoacrylate Adhesives

Cyanoacrylate adhesive is a very fast setting and strong adhesive. It bonds human tissue including skin in seconds. Experience has shown that accidents due to cyanoacrylates are handled best by passive, non-surgical first aid. Treatment of specific types of accidents are given below.

SKIN ADHESION

First immerse the bonded surfaces in warm soapy water.

Peel or roll the surfaces apart with the aid of a blunt edge, e.g. a spatula or a teaspoon handle, then remove adhesive from the skin with soap and water.

Do not try and pull surfaces apart with a direct opposing action.

EYELID TO EYELID OR EYEBALL ADHESION

In the event that eyelids are stuck together or bonded to the eyeball, wash thoroughly with warm water and apply a gauze patch. The eye will open without further action (eyelashes may tear). There will be no residual damage. Do not try to open the eyes by manipulation.

ADHESIVE ON THE EYEBALL

Cyanoacrylate introduced into the eyes will attach itself to the eye protein and will disassociate from it over intermittent periods (generally covering several hours). This will be painless as long as tear clearance is achieved. During the period [illegible] vision may be experienced together with a lachrymatory effect, and it is important to understand the cause and realize that dissociation will normally occur within a matter of hours, even with gross contamination.

MOUTH

If lips are accidentally stuck together apply lots of warm water to the lips and encourage maximum wetting and pressure from saliva inside the mouth. Peel or roll lips apart. Do not try and pull the lips with direct opposing action.

It is almost impossible to swallow cyanoacrylate. The adhesive solidifies and adheres in the mouth. Saliva will lift the adhesive in ½ to 2 days. In case a lump forms in the mouth, position the patient to prevent ingestion of the lump when it detaches.

BURNS

Cyanoacrylates give off heat on solidification. In rare cases a large drop will increase in temperature enough to cause a burn. Burns should be treated normally after the lump of cyanoacrylate is released from the tissue as described above.

SURGERY

It should rarely be necessary to use such a drastic method to separate accidentally bonded skin.

Published by
Loctite Corporation, [illegible]

Raychem

PRODUCT SAFETY DATA AND INFORMATION

Issue No.: 4 Effective Date: May 1986 Serial No.: RAY/3002

* * * * GENERAL INFORMATION * * * *

Product Name: Thermofit S-1006 Adhesive Product Code: S-1006

Manufacturer: RAYCHEM CORPORATION
300 CONSTITUTION DRIVE
MENLO PARK, CA 94025

Telephone No.: 415-361-3333

* * * * HAZARDOUS INGREDIENTS * * * *

PART A - Epichlorohydrin/bisphenol A epoxy resin; CAS#: 25068-38-6
Amorphous silica; CAS#: 7631-86-9

PART B - Polyamide resin; CAS#: 68410-23-1
Triethylenetetramine; CAS#: 00112-24-3
Amorphous silica; CAS#: 7631-86-9

* * * * PHYSICAL PROPERTIES * * * *

Appearance and Odor: PART A - Viscous, purple liquid with slight odor.
PART B - Viscous, tan liquid with ammonia-like odor.

Specific Gravity: PART A - >1; PART B - not established

Solubility in Water: PART A - negligible; PART B - moderate

Flash Point (°F): PART A - 480; PART B - >365

Volatility @23°C(%w/w): PART A - negligible; PART B - negligible

* * * * HEALTH HAZARD INFORMATION * * * *

Toxicological Data: PART A - oral LD_{50}(rat) = 11.4 g/kg (epoxy resin)
PART B - oral LD_{50}(rat) > 16 ml/kg

Exposure Limits: Not established for epoxy, polyamide, or triethylenetriamine. Although a TLV has been established for amorphous silica, it is bound in the product and not available as a particulate.

Health Effects/Symptoms of Exposure: PART A - Irritating to eyes, skin, nose, and throat. Repeated or prolonged contact may produce skin sensitization or other allergic responses in susceptible individuals. May be irritating if ingested, but is not known to have other harmful effects. PART B - Skin, eye, nose, and throat irritation. May be irritating if ingested, but is not known to have other harmful effects.

Suspect Cancer Agent(s)? No. The ingredients, present at ≥0.1%, of the product are not listed as suspect carcinogens by Federal OSHA, Cal-OSHA, NTP, or IARC.

* * * * STORAGE, HANDLING, DISPOSAL, AND PREVENTATIVE MEASURES * * * *

Stable at room temperature? Yes.

Conditions/Materials to Avoid: May react exothermically (release heat) with acids, bases, or strong oxidizing agents.

AMCHEM PRODUCTS INC.
DIVISION OF HENKEL CORPORATION
300 BROOKSIDE AVENUE
AMBLER, PA 19002

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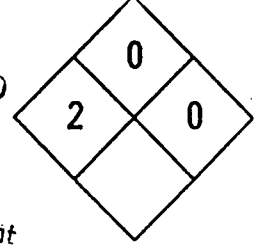
JAN 28 1987
Personnel Department



MATERIAL SAFETY DATA SHEET

FALCON JET CORPORATION
TETERBORO AIRPORT
TETERBORO, NJ 07608

CUSTOMER # FAL01

PRODUCT TRADE NAME	ALODINE 1201		
DOT PROPER SHIPPING NAME	Not Regulated		
DOT HAZARD CLASSIFICATION	None		
TECHNICAL CONTACT (NAME)	Charles Gruszka		
TELEPHONE NUMBER	(215) 628-1364	EMERGENCY NUMBER	(215) 628-1000

1 HAZARDOUS INGREDIENTS

MATERIAL	CAS NO.	CONTENTS (% WT/WT)	HAZARD	TLV
Chromic Acid	1333-82-0	<1	Carcinogen, NTP	0.05 mg/M^3

2 PHYSICAL DATA

APPEARANCE	Amber liquid		
SOLUBILITY IN WATER	Complete		
ODOR, @ 60 °F.	None	pH of CONCENTRATE	2-3
SPECIFIC GRAVITY @ 60 °F.	1.00-1.02	BOILING POINT, °F.	>212
OTHER:	N/A		

3 FIRE & EXPLOSION DATA

FLASH POINT: None
TEST METHOD: N/A
EXTINGUISHING MEDIA: Water

UNUSUAL FIRE OR EXPLOSION HAZARDS

If organic material such as rags, paper, sawdust, etc., become saturated with this material and then dried, spontaneous combustion may result.

SPECIAL FIRE FIGHTING PROCEDURES

None

4 REACTIVITY DATA

STABLE ☒ UNSTABLE ☐

CONDITIONS TO AVOID

INCOMPATIBLE MATERIALS

Organic materials, reducing agents, strong acids

HAZARDOUS POLYMERIZATION WILL OCCUR ☐

WILL NOT OCCUR ☒

CONDITIONS TO AVOID

HAZARDOUS DECOMPOSITION PRODUCTS

Hydrogen cyanide

5 HEALTH HAZARD DATA

Skin:	Very corrosive. Can cause deep tissue destruction which may not be apparent for several hours.
Eyes:	Very corrosive. Anyone whose eyes were exposed should see a doctor.
Ingestion:	Very corrosive to mucous membranes. May be fatal.
Inhalation:	Can be extremely toxic if prolonged.

6 FIRST AID RECOMMENDATIONS

Skin:	Flush with cold water for 5-10 minutes. Soak affected area in an iced solution of ZEPHIRAN CHLORIDE (a readily available product at any drug store). The strength of the soak is 0.13% or 30 cc of 17% ZEPHIRAN CHLORIDE CONCENTRATE per each gallon of iced distilled water. Soak affected part for 1 hour. Call a doctor and make him aware that hydrofluoric acid burns may not become apparent until several hours after exposure.
Eyes:	Flush immediately with copious amounts of water for at least 15 minutes. Call a doctor.
Ingestion:	Drink milk of magnesia, aluminum hydroxide gel, or limewater, followed by several glasses of water. Call a doctor. Do not induce vomiting unless directed by a doctor.
Inhalation:	Remove from contaminated area to fresh air. Any exposed person with any respiratory difficulty such as coughing, chest pain, breathing difficulty, dizziness, fatigue, etc., should be examined by a doctor and the doctor made aware of what materials the individual was exposed to.

7 SPILL PROCEDURES & WASTE DISPOSAL

SPILL PROCEDURES

Transfer any excess to a clean polyethylene container. Treat remaining residue with a dilute solution of sodium metabisulfite to reduce chrome. Neutralize with lime to pH 7-8.

WASTE TREATMENT

Flush reduced and neutralized material to treatment plant with plenty of water and with approval of regulatory agency.

8 PERSONAL PROTECTION

VENTILATION REQUIREMENTS	GENERAL AREA EXHAUST	☐
	LOCAL EXHAUST	☒
	NO EXHAUST NECESSARY	☐

PERSONAL PROTECTIVE EQUIPMENT

EYE PROTECTION	Safety goggles
SKIN PROTECTION	Rubber gloves and rubber apron
RESPIRATORY PROTECTION	Acid mist cartridge - NIOSH approved
OTHER REQUIRED EQUIPMENT	None

9 SPECIAL PRECAUTIONS & STORAGE

Store in a cool place. Do not open container in an unventilated space.

PREPARED BY Charles Gruszka DATE 11/18/86

TITLE Senior Chemist

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MATERIAL SAFETY DATA SHEET

SECTION I

U

PRODUCT NAME:	PR-1436-G B-2, Part A	MSDS IDENTIFICATION NO:	MS3186B03
		DATE OF ISSUE:	02-29-88
DESCRIPTION:	Inorganic Dichromate Solution.	REPLACES:	MS3186B02
		PREPARED BY:	AS.
MANUFACTURER:	Products Research & Chemical Corporation 5430 San Fernando Road, P.O. Box 1800, Glendale, CA 91209		
EMERGENCY TELEPHONE:	(818) 240-2060		

SECTION II - HAZARDOUS INGREDIENTS

CHEMICAL NAME	COMMON NAME	CAS NO	OSHA PEL	ACGIH TLV TWA	ACGIH TLV STEL
Dimethyl Acetamide	Dimethylacetamide	127-19-5	10 ppm	10 ppm (Skin)	Not Est.
Calcium Dichromate	Calcium Dichromate	14307-33-6	0.5 mg/M^3	0.05 mg/M^3	Not Est.

SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point, °F.:	Unk.	Specific Gravity:	1.38
Vapor Pressure, mm Hg:	Unk.		
Vapor Density:	Unk.	Evaporation Rate:	Unk.
Solubility in Water:	Appreciable.		

SECTION VI - EMERGENCY FIRST AID PROCEDURES

Eyes:	Flush with luke warm water for 15 minutes, consult physician.
Skin:	Wash with soap and water. If symptoms persist, consult a physician.
Inhalation:	Remove to fresh air. If symptoms are present consult a physician.
Ingestion:	Consult a physician.

SECTION VII - SUGGESTED CONTROL PROCEDURES

Ventilation:	General ventilation to maintain vapor below PEL.
Skin Protection:	"Nitrile, butyl or natural rubber gloves for occasional contact. Gloves are not adequate protection for immersion. Skin areas subject to splash should be protected with nitrile, butyl or natural rubber, or polyethylene apron or coveralls."
Eye Protection:	Chemical goggles, or if a splash hazard exists, full-face shield.

SECTION VIII - SPILL OR LEAKAGE PROCEDURES

Release or Spillage:	Dike and cover the spill with a non-oxidizable absorbant. Scoop into container. Sprinkle sodium thiosulfate on residue. Work into residue. Scoop into disposal container. Clean area with water.
Waste Disposal:	EPA Waste No. D-007. Dispose of spillage in compliance with Federal and State regulations.

SECTION IX - SPECIAL PRECAUTIONS

Wash thoroughly after handling and before smoking or eating. Avoid ingestion. Due to toxicity by skin absorption, avoid all skin contact.

The information provided herein is, to the best of the manufacturer's knowledge, current, accurate and complete, based on information reasonably available.

SECTION VI - EMERGENCY FIRST AID PROCEDURES

Eyes:	Flush with luke warm water for 15 minutes, consult physician.
Skin:	Wash with soap and water. If symptoms persist, consult a physician.
Inhalation:	Remove to fresh air. If symptoms are present consult a physician.
Ingestion:	Consult a physician.

SECTION VII - SUGGESTED CONTROL PROCEDURES

Ventilation:	General ventilation to maintain vapor below PEL.
Skin Protection:	"Nitrile, butyl or natural rubber gloves for occasional contact. Gloves are not adequate protection for immersion. Skin areas subject to splash should be protected with nitrile, butyl or natural rubber, or polyethylene apron or coveralls."
Eye Protection:	Chemical goggles, or if a splash hazard exists, full-face shield.

SECTION VIII - SPILL OR LEAKAGE PROCEDURES

Release or Spillage:	Dike and cover the spill with a non-oxidizable absorbant. Scoop into container. Sprinkle sodium thiosulfate on residue. Work into residue. Scoop into disposal container. Clean area with water.
Waste Disposal:	EPA Waste No. D-007. Dispose of spillage in compliance with Federal and State regulations.

SECTION IX - SPECIAL PRECAUTIONS

Wash thoroughly after handling and before smoking or eating. Avoid ingestion. Due to toxicity by skin absorption, avoid all skin contact.

The information provided herein is, to the best of the manufacturer's knowledge, current, accurate and complete, based on information reasonably available.

MATERIAL SAFETY DATA SHEET

SECTION I

U

PRODUCT NAME:	PR-1436-G, B-2, B-4, Part B	MSDS IDENTIFICATION NO:	MS3193B06
DESCRIPTION:	Polysulfide Rubber Compound.	DATE OF ISSUE:	02-29-88
		REPLACES:	MS3193B05
MANUFACTURER:	Products Research & Chemical Corporation	PREPARED BY:	AS
EMERGENCY TELEPHONE:	5430 San Fernando Road, P.O. Box 1800, Glendale, CA 91209 (818) 240-2060		

SECTION II - HAZARDOUS INGREDIENTS

CHEMICAL NAME	COMMON NAME	CAS NO	OSHA PEL	ACGIH TLV TWA	ACGIH TLV STEL
Methyl Benzene	Toluene	108-88-3	200 ppm	100 ppm	150 ppm
4,4'-Isopropylidenediphenol-epichlorohydrin resin	Epoxy Resin	25068-38-6	Not Est.	Not Est.	Not Est.
Phenol Polymer with formaldehyde	Phenolic Resin	9003-35-4	Not Est.	Not Est.	Not Est.
Strontium Chromate	Strontium Chromate	7789-06-2	0.5 mg/M^3 (as chromium)	0.05 mg/M^3	Not Est.

SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point, °F.:	Unk.	Specific Gravity:	1.40
Vapor Pressure, mm Hg:	Unk.	VOC, g/l (Mixed):	93.13
Vapor Density:	Unk.	Evaporation Rate:	Unk.
Solubility in Water:	Negligible.		

SECTION VI - EMERGENCY FIRST AID PROCEDURES

Eyes:	Flush with luke warm water for 15 minutes, consult physician.
Skin:	Wash with soap and water. If symptoms persist, consult a physician.
Inhalation:	Remove to fresh air. If symptoms are present consult a physician.
Ingestion:	Consult a physician.

SECTION VII - SUGGESTED CONTROL PROCEDURES

Ventilation:	General ventilation to maintain vapor below PEL.
Skin Protection:	Solvent resistant gloves.
Eye Protection:	Safety glasses.

SECTION VIII - SPILL OR LEAKAGE PROCEDURES

Release or Spillage:	Scoop into containers. Clean-up residue with 1,1,1 -trichloroethane.
Waste Disposal:	EPA Waste No. D-001 and D-007. Dispose of spillage in compliance with Federal and State regulations.

SECTION IX - SPECIAL PRECAUTIONS

Wash thoroughly after handling and before smoking or eating. Avoid ingestion.

MATERIAL SAFETY DATA SHEET

SECTION I

U

PRODUCT NAME: PR-1560-M, Part B

MSDS IDENTIFICATION NO: MS0767C00

DESCRIPTION: Hydrocarbon resin compound solution

DATE OF ISSUE: 04-07-85

PREPARED BY: MBY

MANUFACTURER: Products Research & Chemical Corporation
5430 San Fernando Road, P.O. Box 1800, Glendale, CA 91209

EMERGENCY TELEPHONE: (818) 240-2060

SECTION II - HAZARDOUS INGREDIENTS

CHEMICAL NAME	COMMON NAME	CAS NO	% BY WT	OSHA PEL	CALOSHA PEL	ACGIH TLV
Monochlorobenzene	Monochlorobenzene	108-90-7	48	75 ppm	75 ppm	75 ppm
Ligroin	V.M. & P. Naphtha	8030-30-6	8	400 ppm	300 ppm	300 ppm
n-Butyl acetate	Butyl acetate	123-86-4	3	150 ppm	150 ppm	150 ppm
Ethyl benzene	Ethyl benzene	100-41-4	2	100 ppm	100 ppm	100 ppm

SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point, °F.:	Not applicable	Specific Gravity:	1.26
Vapor Pressure, mm Hg:	Unk.	% Volatiles, by Vol:	75
Vapor Density:	Unk.	Evaporation Rate:	Unk.
Solubility in Water:	Negligible		

SECTION IV - PHYSICAL HAZARD INFORMATION

Flash Point:	122°F PMCC	Flammable Limits:	Unk.
Extinguishing Media:	CO_2, dry chemical, foam, water fog.		
Spec. Fire Fighting Proc:	Use air supplied respirator.		
Unusual Fire Hazards:	None known.		
Stability:	Stable.		
Incompatibility:	Strong oxidizing agents, strong acids.		
Decomposition products:	Oxides of carbon, SO_2, traces of H_2S.		
Hazardous polymerization:	Will not occur.		

SECTION V - HEALTH HAZARD INFORMATION

EFFECTS OF OVER-EXPOSURE:

Eyes:	Irritation. May cause burns of the cornea.
Skin:	Local irritation. Drying of skin. May cause allergic skin reaction in sensitized individuals. Prolonged exposure to strontium chromate over the PEL may cause painless penetrating ulcers of the skin.
Inhalation:	Respiratory irritation. Prolonged exposure above PEL may cause fatigue, headache, confusion, dizziness, drowsiness, numbness and unconsciousness. Prolonged exposure to strontium chromate over the PEL may cause penetrating ulcers of the mucous membrane of the nose and perforation of the cartilaginous nasal septum. Possible liver and kidney damage.
Ingestion:	None known.

LISTED CANCER AGENT?

_____ NO: This product's ingredients are not found in the lists below.

__X__ YES: _____ Federal OSHA __X__ NTP __X__ IARC

"Hexavalent chromium compounds are on the list entitled "Chemicals Known by the State of California to Cause Cancer".

SECTION VI - EMERGENCY FIRST AID PROCEDURES

Eyes:	Flush with luke warm water for 15 minutes, consult physician.
Skin:	Wash with soap and water. If symptoms persist, consult a physician.
Inhalation:	Remove to fresh air. If symptoms are present consult a physician.
Ingestion:	Consult a physician.

SECTION VII - SUGGESTED CONTROL PROCEDURES

Ventilation:	General ventilation to maintain vapor below PEL.
Skin Protection:	Solvent resistant gloves.
Eye Protection:	Safety glasses.

SECTION VIII - SPILL OR LEAKAGE PROCEDURES

Release or Spillage:	Scoop into containers. Clean-up residue with 1,1,1 -trichloroethane.
Waste Disposal:	EPA Waste No. D-001 and D-007. Dispose of spillage in compliance with Federal and State regulations.

SECTION IX - SPECIAL PRECAUTIONS

Wash thoroughly after handling and before smoking or eating. Avoid ingestion.

The information provided herein is, to the best of the manufacturer's knowledge, current, accurate and complete, based on information reasonably available.

SECTION VIII - SPILL OR LEAKAGE PROCEDURES

Release or Spillage:	Remove all ignition sources. Wear air-supplied respirator for major unventilated spill. cover with absorbant. Scoop into containers. Clean up residue with 1,1,1-trichloroethane. RQ = 200 lbs (chlorobenzene)
Waste Disposal:	EPA waste No. D-001. Dispose of spillage in compliance with State and Federal regulations.

SECTION IX - SPECIAL PRECAUTIONS

None

The information provided herein is, to the best of the manufacturer's knowledge, current, accurate and complete, based on information reasonably available.

MATERIAL SAFETY DATA SHEET

SECTION I

0

PRODUCT NAME:	PR-1560-MC, Part A	MSDS IDENTIFICATION NO:	MS0867B01
		DATE OF ISSUE:	11-21-86
DESCRIPTION:	Polyurethane Polymer Compound Solution	PREPARED BY:	MBY
MANUFACTURER:	Products Research & Chemical Corporation 5430 San Fernando Road, P.O. Box 1800, Glendale, CA 91209		
EMERGENCY TELEPHONE:	(818) 240-2060		

SECTION II - HAZARDOUS INGREDIENTS

CHEMICAL NAME	COMMON NAME	CAS NO	OSHA PEL	CALOSHA PEL	ACGIH TLV
Polymethylene polyphenylene polyisocyanate	Poly MDI	9016-87-9	*	*	*
The polymeric MDI contains monomeric 4,4'-diphenyl methane diisocyanate (MDI) (CAS 101-68-8). The PEL for MDI is 0.02 ppm.					
Monochlorobenzene	Monochlorobenzene	108-90-7	75 ppm	75 ppm	75 ppm
2-Butanone	Methyl ethyl ketone	78-93-3	200 ppm	200 ppm	200 ppm

SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point, °F.:	Unk.	Specific Gravity:	1.11
Vapor Pressure, mm Hg:	Unk.	% Volatiles, by Vol:	54
Vapor Density:	Not applicable	Evaporation Rate:	Unk.
Solubility in Water:	Slight		

SECTION VII - SUGGESTED CONTROL PROCEDURES OR LEAK PROCEDURES

Ventilation:	General ventilation to maintain vapors below PEL. When spraying, applying in confined areas, or other circumstances likely to produce airborne levels of isocyanate or solvent in excess of PEL, use an air-supplied respirator.
Skin Protection:	Solvent-resistant gloves. During spray application, complete skin protection is required.
Eye Protection:	Chemical goggles or full-face shield.

SECTION VIII - SPILL OR LEAKAGE PROCEDURES

Release or Spillage:	Remove all ignition sources. Wear air-supplied respirator for major unventilated spill. cover with absorbent material and add decontamination solution * and allow to react for 10 minutes. Collect in containers, add additional decontamination solution and keep loosely covered for 48 hours.
Waste Disposal:	EPA waste No. D-001. Dispose of spillage in compliance with State and Federal regulations.

SECTION IX - SPECIAL PRECAUTIONS

Avoid moisture contamination which will cause CO_2 pressure. Do not reseal containers if moisture contamination is suspected.

* Decontamination Solution: 5% concentrated ammonia, 2% detergent and 93% water.

The information provided herein is, to the best of the manufacturer's knowledge, current, accurate and complete, based on information reasonably available.

MATERIAL SAFETY DATA SHEET

SECTION I

0

PRODUCT NAME:	PR-1560-MC, Part B	MSDS IDENTIFICATION NO:	MS0767B01
		DATE OF ISSUE:	11-22-85
DESCRIPTION:	Hydrocarbon resin compound solution	PREPARED BY:	MBY
MANUFACTURER:	Products Research & Chemical Corporation 5430 San Fernando Road, P.O. Box 1800, Glendale, CA 91209		
EMERGENCY TELEPHONE:	(818) 240-2060		

SECTION II - HAZARDOUS INGREDIENTS

CHEMICAL NAME	COMMON NAME	CAS NO	% BY WT	OSHA PEL	CALOSHA PEL	ACGIH TLV
Monochlorobenzene	Monochlorobenzene	108-90-7	48	75 ppm	75 ppm	75 ppm
Ligroin	V.M. & P. Naphtha	8030-30-6	8	400 ppm	300 ppm	300 ppm
n-Butyl acetate	Butyl acetate	123-86-4	3	150 ppm	150 ppm	150 ppm
Ethyl benzene	Ethyl benzene	100-41-4	2	100 ppm	100 ppm	100 ppm

The following materials are listed as required by 29 CFR 1910.1200 because they appear on the airborne contaminants list. However, in this product, they are in a fully encapsulated form and therefore are not hazardous under normal conditions.

Magnesium silicate hydrate	Talc	14807-96-6	10	20 mppcf	20 mppcf	2 mg/M^3
Chromium III - oxide	Chrome oxide green	1308-38-9	2	0.5 mg/M^3	0.5 mg/M^3	0.5 mg/M^3

SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point, °F.:	Not applicable	Specific Gravity:	1.26
Vapor Pressure, mm Hg:	Unk.	% Volatiles, by Vol:	75
Vapor Density:	Unk.	Evaporation Rate:	Unk.
Solubility in Water:	Negligible		

SECTION VIII - SPILL OR LEAKAGE PROCEDURES

Release or Spillage:	Remove all ignition sources. Wear air-supplied respirator for major unventilated spill. cover with absorbant. Scoop into containers. Clean up residue with 1,1,1-trichloroethane. RQ = 200 lbs (chlorobenzene)
Waste Disposal:	EPA waste No. D-001. Dispose of spillage in compliance with State and Federal regulations.

SECTION IX - SPECIAL PRECAUTIONS

None

The information provided herein is, to the best of the manufacturer's knowledge, current, accurate and complete, based on information reasonably available.

MATERIAL SAFETY DATA SHEET

SECTION I

U

PRODUCT NAME:	PR-1750, All Classes and Types, Part A	MSDS IDENTIFICATION NO:	MS0644E02
		DATE OF ISSUE:	03-04-88
DESCRIPTION:	Manganese Dioxide Dispersion.	REPLACES:	MS0644E01
		PREPARED BY:	AS
MANUFACTURER:	Products Research & Chemical Corporation 5430 San Fernando Road, P.O. Box 1800, Glendale, CA 91209		
EMERGENCY TELEPHONE:	(818) 240-2060		

SECTION II - HAZARDOUS INGREDIENTS

CHEMICAL NAME	COMMON NAME	CAS NO	% BY WT	OSHA PEL	ACGIH TLV TWA	ACGIH TLV STEL
Manganese Dioxide *	Manganese Dioxide	1313-13-9	60	5 mg/M^3	5 mg/M^3	Not Est.

* The exposure limits are based on the measurement of airborne particles. In this product, this material is present in a fully encapsulated form and therefore airborne particles will not result from normal use.

SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point, °F.:	Not applicable.	Specific Gravity:	1.95
Vapor Pressure, mm Hg:	Not applicable.		
Vapor Density:	Not applicable.	Evaporation Rate:	Unk.
Solubility in Water:	Negligible.		

SECTION VII - SUGGESTED CONTROL PROCEDURES

Ventilation:	General ventilation.
Skin Protection:	Solvent resistant gloves.
Eye Protection:	Safety glasses.

SECTION VIII - SPILL OR LEAKAGE PROCEDURES

Release or Spillage:	Scoop into containers. Clean-up residue with 1,1,1 -trichloroethane.
Waste Disposal:	Not a hazardous waste according to EPA regulations. Consult State regulations prior to disposal of spillage.

SECTION IX - SPECIAL PRECAUTIONS

Wash thoroughly after handling and before smoking or eating. Avoid ingestion. This product contains a toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

The information provided herein is, to the best of the manufacturer's knowledge, current, accurate and complete, based on information reasonably available.

MATERIAL SAFETY DATA SHEET

SECTION I

U

PRODUCT NAME:	PR-1222, Part B	MSDS IDENTIFICATION NO:	MSO250C01
		DATE OF ISSUE:	01-29-88
DESCRIPTION:	Polysulfide Rubber Compound.	REPLACES:	MSO250C00
		PREPARED BY:	AS
MANUFACTURER:	Products Research & Chemical Corporation 5430 San Fernando Road, P.O. Box 1800, Glendale, CA 91209		
EMERGENCY TELEPHONE:	(818) 240-2060		

SECTION II - HAZARDOUS INGREDIENTS

CHEMICAL NAME	COMMON NAME	CAS NO	OSHA PEL	ACGIH TLV TWA	ACGIH TLV STEL
Phenol polymer with formaldehyde	phenolic resin	9003-35-4	Not est.	Not est.	Not est.

SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point, °F.:	Not applicable.	Specific Gravity:	1.52
Vapor Pressure, mm Hg:	Not applicable.	VOC, g/l (Mixed):	0
Vapor Density:	Not applicable.	Evaporation Rate:	Not applicable.
Solubility in Water:	Insoluble.		

SECTION VII - SUGGESTED CONTROL PROCEDURES

Ventilation:	General ventilation.
Skin Protection:	Rubber or plastic gloves.
Eye Protection:	Safety glasses.

SECTION VIII - SPILL OR LEAKAGE PROCEDURES

Release or Spillage:	Scoop into containers. Clean up residue with 1,1,1 trichloroethane.
Waste Disposal:	Not a hazardous waste according to EPA regulations. Consult state regulations prior to disposal of spillage.

SECTION IX - SPECIAL PRECAUTIONS

None.

The information provided herein is, to the best of the manufacturer's knowledge, current, accurate and complete, based on information reasonably available.

MATERIAL SAFETY DATA SHEET

SECTION I

U

PRODUCT NAME:	PR-1422 A-1/2, Part A	MSDS IDENTIFICATION NO:	MS3100C05
		DATE OF ISSUE:	03-01-88
DESCRIPTION:	Inorganic Dichromate Solution.	REPLACES:	MS3100C04
		PREPARED BY:	AS
MANUFACTURER:	Products Research & Chemical Corporation		
EMERGENCY TELEPHONE:	5430 San Fernando Road, P.O. Box 1800, Glendale, CA 91209 (818) 240-2060		

SECTION II - HAZARDOUS INGREDIENTS

CHEMICAL NAME	COMMON NAME	CAS NO	OSHA PEL	ACGIH TLV TWA	ACGIH TLV STEL
Dimethylformamide	DMF	68-12-2	10 ppm	10 ppm (Skin)	Not Est.
Magnesium Dichromate	Magnesium Dichromate	13423-61-5	0.5 mg/M^3	0.05 mg/M^3	Not Est.
Calcium Dichromate	Calcium Dichromate	14307-33-6	0.5 mg/M^3	0.05 mg/M^3	Not Est.

SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point, °F.:	Unk.	Specific Gravity:	1.51
Vapor Pressure, mm Hg:	Unk.		
Vapor Density:	Unk.	Evaporation Rate:	Unk.
Solubility in Water:	Complete.		

SECTION VI - EMERGENCY FIRST AID PROCEDURES

Eyes:	Flush with luke warm water for 15 minutes, consult physician.
Skin:	Wash with soap and water. If symptoms persist, consult a physician.
Inhalation:	Remove to fresh air. If symptoms are present consult a physician.
Ingestion:	Consult a physician.

SECTION VII - SUGGESTED CONTROL PROCEDURES

Ventilation:	General ventilation to maintain vapor below PEL.
Skin Protection:	"Nitrile, butyl or natural rubber gloves for occasional contact. Gloves are not adequate protection for immersion. Skin areas subject to splash should be protected with nitrile, butyl or natural rubber, or polyethylene apron or coveralls."
Eye Protection:	Chemical goggles, or if a splash hazard exists, full-face shield.

SECTION VIII - SPILL OR LEAKAGE PROCEDURES

Release or Spillage:	Dike and cover the spill with a non-oxidizable absorbant. Scoop into container. Sprinkle sodium thiosulfate on residue. Work into residue. Scoop into disposal container. Clean area with water.
Waste Disposal:	EPA Waste No. D-007. Dispose of spillage in compliance with Federal and State regulations.

SECTION IX - SPECIAL PRECAUTIONS

Wash thoroughly after handling and before smoking or eating. Avoid ingestion. Due to toxicity by skin absorption, avoid all skin contact.

The information provided herein is, to the best of the manufacturer's knowledge, current, accurate and complete, based on information reasonably available.

3M General Offices
3M Center
St. Paul, Minnesota 55144-1000
(612) 733-1110

Duns No.: 00-617-3082

MATERIAL SAFETY
DATA SHEET

MSDS: EC-3524 Part A
JANUARY 12, 1989

4. REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY - MATERIALS TO AVOID:
N/A
HAZARDOUS POLYMERIZATION: Will Not Occur
HAZARDOUS DECOMPOSITION PRODUCTS:
CO, CO2 plus nitrogen and chlorine containing compounds when subjected to excessive heat or flame.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:
Ventilate area. Observe precautions from other sections. Only properly protected personnel should remain in the immediate area. Post the area to prevent admittance by unprotected personnel. Contain the spill by covering with loose, absorbent material (sawdust or oil dry). Place in a suitable open top metal container (U.S. Department of Transportation - approved if waste is to be shipped). Remove waste and container to well ventilated area and treat by spraying with a dilute ammonia solution (90% water, 8% concentrated NH4OH and 2% liquid detergent). Leave ventilated 24 hours, then seal container. Wash down area with dilute ammonia solution to neutralize remaining residue of isocyanate.

RECOMMENDED DISPOSAL:
FOR ACCELERATOR ONLY and/or TWO PART PRODUCT (WHEN PARTS HAVE BEEN MIXED TOGETHER): Fully-cured or neutralized waste may be disposed in a sanitary landfill. Incinerate unused or partially cured bulk product after mixing with flammable material in an industrial or commercial facility. Disposal should be in accordance with applicable regulations.

ENVIRONMENTAL DATA:
Volatile Organic Compound (VOC):
Maximum VOC = N/A.
Maximum VOC minus Water minus Exempt Solvents = N/A.

6. SUGGESTED FIRST AID

EYE CONTACT:
Flush eyes with large amounts of water for at least 10 minutes. Call a physician.

SKIN CONTACT:
Thoroughly wash affected area with soap and water.

INHALATION:
Provide fresh air. Call a physician.

IF SWALLOWED:
Do not induce vomiting. Immediately call a physician or poison control center.

Abbreviations: N/D - Not Determined N/A - Not Applicable

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Duns No.: 00-617-3082

MATERIAL SAFETY
DATA SHEET

3M

MSDS: EC-3524 Part A
JANUARY 12, 1989

6. SUGGESTED FIRST AID (continued)

OTHER FIRST AID:
NONE

7. PRECAUTIONARY INFORMATION

FOR INDUSTRIAL AND PROFESSIONAL USE ONLY. Use only in areas with sufficient ventilation to remove vapors and prevent vapor buildup. Avoid eye contact. Wear appropriate eye protection such as safety glasses or chemical goggles. Avoid skin contact. Wear impervious gloves and protective clothing as necessary to prevent skin contact. Wash contaminated clothing before reuse. Keep container closed when not in use. Keep out of the reach of children.

8. HEALTH HAZARD DATA

EYE CONTACT: May be irritating to the eyes upon direct contact. Symptoms may include edema, redness, tearing, burning sensation and blurred vision.

SKIN CONTACT: Acute exposure is mildly irritating. Prolonged or repeated contact will produce defatting and resultant dermatitis. May cause an allergic skin reaction in susceptible individuals.

INHALATION: During heat curing operations, vapors may be irritating to the respiratory system. During normal room temperature curing operations vapor inhalation is not anticipated.

INGESTION: May cause digestive system irritation.

Abbreviations: N/D - Not Determined N/A - Not Applicable

The information on this Data Sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this Data Sheet or which involves using the product in combination with any other product or any other process is the responsibility of the user.

3M General Offices
3M Center
St. Paul, Minnesota 55144-1000
(612) 733-1110

Duns No.: 00-617-3082

MATERIAL SAFETY
DATA SHEET

3M

DIVISION: ADHESIVES, COATINGS AND SEALERS
TRADE NAME:
EC-3524 Part A
3M I.D. NUMBER: 62-3624-0000-0

ISSUED: JANUARY 12, 1989
SUPERSEDES: NOVEMBER 10, 1988
DOCUMENT: 10-4960-0

1. INGREDIENT	C.A.S. NO.	PERCENT	EXPOSURE LIMITS VALUE	UNIT	TYPE	AUTH
amine terminated polymer - N.J. Trade Secret (T.S.) Registry No. 04499600-5573P	T.S.	50.0 - 60.0	NONE	NONE	NONE	NONE
glass bubbles	none	20.0 - 30.0	NONE	NONE	NONE	NONE
flame retardant	13560-89-9	10.0 - 20.0	NONE	NONE	NONE	NONE
2,4,6-tris (dimethylamino)methyl phenol	90-72-2	1.0 - 10.0	5	ppm	TWA	CMRG
triphenylphosphite	68610-62-8	1.0 - 10.0	NONE	NONE	NONE	NONE

SOURCE OF EXPOSURE LIMIT DATA:
- CMRG: Chemical Manufacture Recommended Guidelines
- NONE: None Established

2. PHYSICAL DATA

BOILING POINT:..... N/A
VAPOR PRESSURE:..... N/A
VAPOR DENSITY: ..... N/A
EVAPORATION RATE:..... N/A
SOLUBILITY IN WATER: ..... Very slight
SP. GRAVITY:..... 0.500 Water = 1
PERCENT VOLATILE: ..... 0.00 %
VOLATILE ORGANICS: ..... N/A
pH: ..... N/A
VISCOSITY: ..... Paste
APPEARANCE AND ODOR: White, paste, characteristic amine odor

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... > 200.00 F
FLAMMABLE LIMITS - LEL: ..... N/A
FLAMMABLE LIMITS - UEL: ..... N/A
AUTOIGNITION TEMPERATURE: ... N/D
EXTINGUISHING MEDIA:
CO2, foam, dry chemical
SPECIAL FIRE FIGHTING PROCEDURES:
Fire fighters should be equipped with self-contained breathing apparatus when handling this material.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
None.
NFPA-HAZARD-CODES: HEALTH 1 FIRE 0 REACTIVITY 1
UNUSUAL REACTION HAZARD: None

Abbreviations: N/D - Not Determined N/A - Not Applicable

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Duns No.: 00-617-3082

MATERIAL SAFETY
DATA SHEET

3M

MSDS: EC-3524 Part A
JANUARY 12, 1989

4. REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY - MATERIALS TO AVOID:
N/A
HAZARDOUS POLYMERIZATION: Will Not Occur
HAZARDOUS DECOMPOSITION PRODUCTS:
CO, CO2 plus nitrogen and chlorine containing compounds when subjected to excessive heat or flame.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:
Ventilate area. Observe precautions from other sections. Only properly protected personnel should remain in the immediate area. Post the area to prevent admittance by unprotected personnel. Contain the spill by covering with loose, absorbent material (sawdust or oil dry). Place in a suitable open top metal container (U.S. Department of Transportation - approved if waste is to be shipped). Remove waste and container to well ventilated area and treat by spraying with a dilute ammonia solution (90% water, 8% concentrated NH4OH and 2% liquid detergent). Leave ventilated 24 hours, then seal container. Wash down area with dilute ammonia solution to neutralize remaining residue of isocyanate.

RECOMMENDED DISPOSAL:
FOR ACCELERATOR ONLY and/or TWO PART PRODUCT (WHEN PARTS HAVE BEEN MIXED TOGETHER): Fully-cured or neutralized waste may be disposed in a sanitary landfill. Incinerate unused or partially cured bulk product after mixing with flammable material in an industrial or commercial facility. Disposal should be in accordance with applicable regulations.

ENVIRONMENTAL DATA:
Volatile Organic Compound (VOC):
Maximum VOC = N/A.
Maximum VOC minus Water minus Exempt Solvents = N/A.

6. SUGGESTED FIRST AID

EYE CONTACT:
Flush eyes with large amounts of water for at least 10 minutes. Call a physician.

SKIN CONTACT:
Thoroughly wash affected area with soap and water.

INHALATION:
Provide fresh air. Call a physician.

IF SWALLOWED:
Do not induce vomiting. Immediately call a physician or poison control center.

Abbreviations: N/D - Not Determined N/A - Not Applicable

3M General Offices
3M Center
St. Paul, Minnesota 55144-1000
(612) 733-1110

03-66
4253

Duns No.: 00-617-3082

MATERIAL SAFETY
DATA SHEET

MSDS: EC-3524 Part A
JANUARY 12, 1989

6. SUGGESTED FIRST AID (continued)

OTHER FIRST AID:
NONE

7. PRECAUTIONARY INFORMATION

FOR INDUSTRIAL AND PROFESSIONAL USE ONLY. Use only in areas with sufficient ventilation to remove vapors and prevent vapor buildup. Avoid eye contact. Wear appropriate eye protection such as safety glasses or chemical goggles. Avoid skin contact. Wear impervious gloves and protective clothing as necessary to prevent skin contact. Wash contaminated clothing before reuse. Keep container closed when not in use. Keep out of the reach of children.

8. HEALTH HAZARD DATA

EYE CONTACT: May be irritating to the eyes upon direct contact. Symptoms may include edema, redness, tearing, burning sensation and blurred vision.

SKIN CONTACT: Acute exposure is mildly irritating. Prolonged or repeated contact will produce defatting and resultant dermatitis. May cause an allergic skin reaction in susceptible individuals.

INHALATION: During heat curing operations, vapors may be irritating to the respiratory system. During normal room temperature curing operations vapor inhalation is not anticipated.

INGESTION: May cause digestive system irritation.

Abbreviations: N/D - Not Determined N/A - Not Applicable

The information on this Data Sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this Data Sheet or which involves using the product in combination with any other product or any other process is the responsibility of the user.

MSDS

DYNALOY, INC.

POLYMERS, [illegible] AND CHEMICALS

7 GREAT MEADOW LANE • HANOVER, N.J. 07936 (201) 887-8270 • TELEX 642033

Material Safety Data Sheet

Manufacturer's Name: DYNALOY, INC.

Address: 7 GREAT MEADOW LANE, HANOVER, N.J. 07936

Preparer's Name: JAY W. PARTON

SECTION 1 - IDENTITY

Common Name: (used on label) URESOLVE PLUS/URESOLVE PLUS S.G.

(Trade Name & Synonyms) URESOLVE PLUS 500

Chemical Name	Formula	DOT Hazard Classification (49 CFR)	Proper Shipping Name
N/A	N/A	COMBUSTIBLE LIQUID	COMPOUND, CLEANING LIQUID

SECTION 2 - HAZARDOUS INGREDIENTS

Principal Hazardous Component(s) (chemical & common name(s))	Cas No.	[illegible]	Limit Value (units)
ETHYLENE GLYCOL MONOMETHYL ETHER (2-METHOXYETHANOL)	109-86-4	60	[illegible] OSHA [illegible] TABLE Z-1 [illegible], 1988-1989
FOR WOMEN OF CHILDBEARING POTENTIAL:	PEL-2 PPM (8 HOUR TWA), SKIN (15 MIN. TWA EXCURSION, [illegible] SEPARATION OF ONE HOUR. [illegible]		[illegible] MIT - 5 PPM [illegible] DAILY WITH A MINIMUM
FOR OTHER PERSONS:	PEL - 5 PPM (8 HOUR TWA) [illegible]		AVOID ALL SKIN CONTACT.
POTASSIUM HYDROXIDE	1310-58-3	2-4	2 MG/M3 (15 MIN CEILING) NIOSH PEL - 2 MG/M3 (8 HOUR TWA) OSHA AND ACGIH

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS (Fire & Explosion Data)

(ETHYLENE GLYCOL MONOMETHYL ETHER)

Boiling Point: 256°F (MIXTURE)

Specific Gravity (H_2O=1): 0.990 (PLUS/PLUS S.G.), 1.005 (PLUS 500)

Vapor Pressure (mm Hg): 6.2 AT 20°C

Percent Volatile by Volume (%): 100

Vapor Density (Air = 1): 2.62

Evaporation Rate ([illegible] BU AC = 1): 0.62

Solubility in Water: COMPLETE AT 20°C

Reactivity in Water: N/A

pH (MIXTURE): 12.8 (PLUS/PLUS S.G.), 13.5 (PLUS 500)

Appearance and Odor: (MIXTURE) BLUE TO GREEN BROWN LIQUID, SLIGHT PLEASANT ODOR.

Flash Point (MIXTURE): 117°F. CC

Flammable Limits in Air % by Volume: Lower 1.8, Upper 14.0

Extinguisher Media: WATER SPRAY, CO_2, ALCOHOL FOAM, DRY CHEMICAL

Auto-Ignition Temperature: N/A

Special Fire Fighting Procedures: USE SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.

Unusual Fire and Explosion Hazards: NONE

SECTION 4 - PHYSICAL HAZARDS

Stability: Unstable ☐ Stable ☒ Conditions to Avoid: FLAME, IGNITION SOURCES

Incompatability (Materials to Avoid): STRONG OXIDIZING AGENTS

Hazardous Decomposition Products: CO AND CO_2

Hazardous Polymerization: May Occur ☐ Will Not Occur ☒ Conditions to Avoid: N/A

HMIS RATINGS: HEALTH - 2*, FLAMMABILITY - 2, REACTIVITY - 1 *REFER TO MSDS

While Dynaloy, Inc. believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Dynaloy, Inc. assumes legal responsibility. They are offered solely for your consideration, investigation, and verification. Any use of these data and information must be determined by the user to be in accordance with applicable Federal, State, and local laws and regulations.

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA-20)

DATE OF PREP 11-12 80

Section I

MANUFACTURER'S NAME Tempo Products Company

STREET ADDRESS 6200 Cochran Rd. CITY, STATE, AND ZIP CODE Cleveland (Solon), Ohio 44139

EMERGENCY TELEPHONE NO. 216/248-1450

PRODUCT CLASS Spray Paint MANUFACTURER'S CODE IDENTIFICATION 7-6889A

TRADE NAME Tempo Green Zinc Chromate Primer

Section II — HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT	TLV PPM	TLV mg/m³	LEL	VAPOR PRESSURE
Toluene	12.6	100	-	1.27	Aerosol Cans 40 P.S.I @ 70°F.
Acetone	19.5	1,000	2,400	2.55	
Methylene Chloride	9.6	500	1,740	-	
thyl Ethyl Ketone	7.0	200	590	1.81	
Xylene	4.9	100	435	1.10	
Mineral Spirits	4.7	-	-	-	
opane	12.5	-	-	1.90	
Isobutane	12.5	-	-	2.30	

Section III — PHYSICAL DATA

BOILING RANGE NA VAPOR DENSITY [X] HEAVIER. [ ] LIGHTER THAN AIR

EVAPORATION RATE [X] FASTER [ ] SLOWER THAN ETHER PERCENT VOLATILE BY VOLUME 85% WEIGHT PER GALLON NA

Section IV — FIRE AND EXPLOSION HAZARD DATA

DOT CATEGORY FLASH POINT Aerosol -10° F. LEL See I

EXTINGUISHING MEDIA Use carbon dioxide dry chemical or foam.

UNUSUAL FIRE AND EXPLOSION HAZARDS Exposure to heat may cause bursting of aerosol can.

SPECIAL FIRE FIGHTING PROCEDURES Water spray may be ineffective. Water may be used to cool containers to prevent bursting. If water is used, fog nozzles are preferable. Wear goggles and self contained breathing apparatus.

MATERIAL SAFETY DATA SHEET

CIBA-GEIGY CORPORATION
FORMULATED SYSTEMS GROUP
4917 DAWN AVE
EAST LANSING, MI 48823
(517) 351-5900

EMERGENCY PHONE NUMBER:

(800) 888-8372

SECTION I-IDENTITY INFORMATION

IDENTITY (TRADENAME): ARALDITE AW 106

FORMER DESIGNATIONS:
RP 106 RESIN
FAMILY/CHEMICAL NAME:
EPOXY
PRODUCT TYPE:
EPOXY ADHESIVE RESIN
IMPORTANT:

THIS MATERIAL WILL NOT BE SOLD FOR USE IN PRODUCTS FOR WHICH PROLONGED CONTACT WITH MUCOUS MEMBRANES OR ABRADED SKIN, OR IMPLANTATION WITHIN THE HUMAN BODY, IS SPECIFICALLY INTENDED. BECAUSE OF THE WIDE RANGE OF SUCH POTENTIAL USES, CIBA-GEIGY CORPORATION IS NOT ABLE TO RECOMMEND THIS MATERIAL AS SAFE AND EFFECTIVE FOR SUCH USES AND ASSUMES NO LIABILITY FOR ANY SUCH USES.

HAZARD STATEMENT :

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200.
THIS PRODUCT IS CONSIDERED TO BE A HAZARDOUS CHEMICAL UNDER THAT STANDARD.

SECTION II-HAZARDOUS INGREDIENTS

CHEMICAL NAME: FUMED SILICA
COMMON NAME : FUMED SILICA
CAS NUMBER : 007631-86-9

EXPOSURE LIMITS:
ACGIH TLV : 10 MG/M3 AIR TWA (TOTAL DUST)
OSHA PEL : 6 MG/M3 AIR TWA
CARCINOGENICITY: THIS MATERIAL IS NOT CONSIDERED TO BE A CARCINOGEN BY NTP, IARC, OR OSHA.

* * *

CHEMICAL NAME: DI-N-BUTYL PHTHALATE
COMMON NAME : DIBUTYL PHTHALATE
CAS NUMBER : 000084-74-2
EXPOSURE LIMITS:
ACGIH TLV : 5 MG/M3 AIR TWA
OSHA PEL : 5 MG/M3 AIR TWA
CARCINOGENICITY: THIS MATERIAL IS NOT CONSIDERED TO BE A CARCINOGEN BY NTP, IARC, OR OSHA.

* * *

CHEMICAL NAME: PARA-TERTIARY BUTYLPHENYL GLYCIDYL ETHER
COMMON NAME : REACTIVE DILUENT
CAS NUMBER : 003101-60-8
CARCINOGENICITY: THIS MATERIAL IS NOT CONSIDERED TO BE A CARCINOGEN BY NTP, IARC, OR OSHA.

* * *

CHEMICAL NAME: DIGLYCIDYL ETHER OF BISPHENOL A
COMMON NAME : EPOXY RESIN
CAS NUMBER : 025068-38-6
CARCINOGENICITY: THIS MATERIAL IS NOT CONSIDERED TO BE A CARCINOGEN BY NTP, IARC, OR OSHA.

* * *

SECTION III-PHYSICAL DATA

APPEARANCE AND ODOR:
OPAQUE WHITE LIQUID, WITH MILD ODOR
BOILING POINT:
> 300F
EVAPORATION RATE:
NOT DETERMINED.
PERCENT VOLATILE:
< 1%.
VAPOR DENSITY:
NOT DETERMINED.
VAPOR PRESSURE:
@ 25C .00165 MMHG
SOLUBILITY IN WATER:
INSOLUBLE.
PH:
NOT DETERMINED.
SPECIFIC GRAVITY:
1.14 - 1.19 (WATER = 1)

SECTION IV-FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:
273F (PMCC)

FLAMMABLE LIMITS IN AIR-LOWER:
NOT ESTABLISHED.
FLAMMABLE LIMITS IN AIR-UPPER:
NOT ESTABLISHED.
EXTINGUISHING MEDIA:
CARBON DIOXIDE, DRY CHEMICAL, FOAM.
FIRE FIGHTING PROCEDURES-SPECIAL:
USE SELF-CONTAINED BREATHING APPARATUS.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
DECOMPOSITION AND COMBUSTION PRODUCTS MAY BE TOXIC.

SECTION V-REACTIVITY DATA

STABILITY:
STABLE.
CONDITIONS TO AVOID:
EXCESSIVE HEAT FOR PROLONGED PERIODS OF TIME.
INCOMPATIBILITY:
STRONG OXIDIZERS, ACIDS AND BASES.
HAZARDOUS DECOMPOSITION PRODUCTS:
COMBUSTION MAY FORM TOXIC MATERIALS, SUCH AS CARBON DIOXIDE, CARBON MONOXIDE.
HAZARDOUS POLYMERIZATION:
WILL NOT OCCUR.

SECTION VI-HEALTH HAZARD DATA

PRIMARY ROUTES OF EXPOSURE:
DERMAL; HEATED PRODUCT MAY PRODUCE INHALABLE VAPORS.
THRESHOLD LIMIT VALUE:
NONE ESTABLISHED FOR THIS PRODUCT. SEE THE HAZARDOUS INGREDIENTS SECTION.
SKIN IRRITATION:
IRRITANT.
EYE IRRITATION:
IRRITANT.
SENSITIZATION:
POSSIBLE IN SUSCEPTIBLE INDIVIDUALS.
TERATOGENICITY:
TEST RESULTS FOR DIGLYCIDYL ETHER OF BISPHENOL A:
NO ADVERSE EFFECTS ON EMBRYONIC OR FETAL DEVELOPMENT WERE OBSERVED (RATS,RABBITS)
MUTAGENICITY:
TEST RESULTS FOR DIGLYCIDYL ETHER OF BISPHENOL A:

AMES TEST	: BOTH POSITIVE AND NEGATIVE RESULTS
HAMSTER BONE MARROW CYTOGENETICS (INVIVO)	: NEGATIVE
MOUSE SPERMATOCYTES CYTOGENETICS (INVIVO)	: NEGATIVE
MICRONUCLEUS TEST (INVIVO)	: NEGATIVE
MOUSE DOMINANT LETHAL TEST	: NEGATIVE
ALKYLATION OF DNA	: POSITIVE
HUMAN MONONUCLEATED WBC (INVIVO)	: NEGATIVE
HOST MEDIATED ASSAY	: NEGATIVE

SUBCHRONIC ORAL FEEDING STUDIES:

TEST RESULTS FOR DIGLYCIDYL ETHER OF BISPHENOL A:
NO OBSERVABLE EFFECT AT HIGHEST LEVEL STUDIED
(1000 MG/KG/DAY FOR 28 DAYS - RATS)

OVEREXPOSURE EFFECTS:
SKIN AND EYE IRRITATION AND ALLERGIC SKIN REACTIONS.

OVEREXPOSURE-CHRONIC:
TEST RESULTS FOR DIGLYCIDYL ETHER OF BISPHENOL A:
2-YEAR DERMAL STUDY IN MICE: NO TREATMENT RELATED EFFECTS
2-YEAR SKIN PAINTING STUDIES:
A) C3HF/BD MICE : NO INCREASED TUMOR INCIDENCE
B) C57BL/6BD MICE: SLIGHT INCREASE IN EPIDERMAL LOCALIZED CARCINOMAS AT HIGH DOSE
C) C3H MICE : NO TUMORS
MICE RECEIVING SKIN APPLICATIONS OF DIGLYCIDYL ETHER OF BISPHENOL A OR ESSENTIALLY IDENTICAL RESINS FOR TWO YEARS HAVE YIELDED VERY LIMITED EVIDENCE OF WEAK CARCINOGENICITY. THE PUBLISHED REPORT ON THIS STUDY CONCLUDES THAT THIS RESIN PRODUCT "IS NOT A SYSTEMIC CARCINOGEN WHEN APPLIED TO THE SKIN OF CF1 MICE" AND THE TUMOR DATA "WAS OF NO BIOLOGICAL IMPORTANCE". BASED ON ALL AVAILABLE DATA, IARC (INTERNATIONAL AGENCY FOR RESEARCH ON CANCER) HAS CONCLUDED IN 1988 THAT DGEBPA IS NOT CLASSIFIED AS A CARCINOGEN.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:
SKIN AND EYE CONDITIONS.

EMERGENCY AND FIRST AID PROCEDURES-EYES:
IMMEDIATELY FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN.

EMERGENCY AND FIRST AID PROCEDURES-SKIN:
WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE RE-USE.

EMERGENCY AND FIRST AID PROCEDURES-INGESTION:
IF CONSCIOUS, GIVE PLENTY OF WATER TO DRINK. DO NOT INDUCE VOMITING. CALL A PHYSICIAN.

EMERGENCY AND FIRST AID PROCEDURES-INHALATION:
REMOVE TO FRESH AIR. GIVE OXYGEN AND/OR ARTIFICIAL RESPIRATION, IF NEEDED. CALL A PHYSICIAN.

EMERGENCY AND FIRST AID PROCEDURES-OTHER:
REFERRAL TO A PHYSICIAN IS RECOMMENDED IF THERE IS ANY QUESTION ABOUT THE SERIOUSNESS OF ANY INJURY.

SECTION VII-SPILL OR LEAK PROCEDURES

SPILL PROCEDURES:
REMOVE SPILLAGE BY ABSORBING IN ABSORBENT MATERIAL.

WASTE DISPOSAL METHODS:
CONSULT QUALIFIED LOCAL OR CORPORATE PERSONNEL FOR METHOD THAT WILL COMPLY WITH LOCAL, STATE AND FEDERAL HEALTH AND ENVIRONMENTAL REGULATIONS.

SECTION VIII-SPECIAL PROTECTION INFORMATION

VENTILATION:
GENERAL MECHANICAL AND LOCAL EXHAUST IN ACCORDANCE WITH

ACGIH RECOMMENDATIONS.

PROTECTIVE GLOVES:

WEAR IMPERMEABLE GLOVES.

EYE PROTECTION:

WEAR SPLASH-PROOF CHEMICAL GOGGLES.

RESPIRATORY PROTECTION:

USE NIOSH APPROVED ORGANIC VAPOR CARTRIDGE RESPIRATOR WHEN VAPOR/MIST EXPOSURE IS LIKELY.

SECTION IX-SPECIAL PRECAUTIONS

HANDLING, SHIPPING AND STORING PRECAUTIONS:

WARNING CAUSES SKIN AND EYE IRRITATION.
MAY CAUSE ALLERGIC SKIN REACTION.
AVOID CONTACT WITH EYES, SKIN, AND CLOTHING.
AVOID PROLONGED OR REPEATED CONTACT WITH SKIN.
WASH THOROUGHLY AFTER HANDLING.

HANDLING PRECAUTIONS:

NUISANCE DUST MAY BE GENERATED WHEN SANDING OR SAWING CURED MATERIAL.

PLEASE NOTE:

THIS PRODUCT CONTAINS DIBUTYL PHTHALATE WHICH MAY CAUSE ADVERSE REPRODUCTIVE EFFECTS IN LABORATORY ANIMALS. THE RELEVANCE TO HUMANS IS NOT KNOWN.

SECTION X- REGULATORY INFORMATION

DOT PROPER SHIPPING NAME:

LIQUID PLASTIC, N.O.I.

DOT CLASS:

NOT REGULATED.

RCRA STATUS:

U 069 DIBUTYL PHTHALATE.

SARA/TITLE III - TOXIC CHEMICALS LIST:

THIS PRODUCT IS (OR CONTAINS) A TOXIC CHEMICAL FOR ROUTINE ANNUAL "TOXIC CHEMICAL RELEASE REPORTING" UNDER SEC. 313 (40 CFR 372).

8.5000% 84-74-2 DIBUTYL PHTHALATE

THIS INFORMATION MUST BE INCLUDED IN ALL MSDS'S THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL.

TSCA INVENTORY STATUS:

CHEMICAL COMPONENTS LISTED ON TSCA INVENTORY.

PENNSYLVANIA RIGHT-TO-KNOW ACT:

THE FOLLOWING IS REQUIRED COMPOSITION INFORMATION.

CHEMICAL NAME : PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS-, POLYMER WITH (CHLOROMETHYL)OXIRANE
CAS NUMBER : 25068-38-6
COMMON NAME : EPOXY RESIN
COMMENTS : NOT ON PENNSYLVANIA HAZARDOUS SUBSTANCE LIST.

* * *

CHEMICAL NAME : SILICA
CAS NUMBER : 07631-86-9
COMMON NAME : SILICA
COMMENTS : HAZARDOUS SUBSTANCE.

* * *

CHEMICAL NAME : 1,2-BENZENEDICARBOXYLIC ACID, DIBUTYL ESTER
CAS NUMBER : 00084-74-2
COMMON NAME : DIBUTYL PHTHALATE
COMMENTS : ENVIRONMENTAL HAZARD.

* * *

ISSUE DATE: 08/16/89 REVISION: 08C ISSUED BY: PETER HENIGE
FOR FURTHER INFORMATION, PLEASE CONTACT: PRODUCT SAFETY DIR

THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED UPON DATA BELIEVED TO BE CORRECT. HOWEVER, NO GUARANTEE OR WARRANTY OF ANY KIND EXPRESSED OR IMPLIED IS MADE WITH RESPECT TO THE INFORMATION CONTAINED HEREIN.

MATERIAL SAFETY DATA SHEET

CIBA-GEIGY CORPORATION
FORMULATED SYSTEMS GROUP
4917 DAWN AVE
EAST LANSING, MI 48823
(517) 351-5900

EMERGENCY PHONE NUMBER:

(800) 888-8372

SECTION I-IDENTITY INFORMATION

IDENTITY (TRADENAME): HARDENER HV 953

FORMER DESIGNATIONS:
H 953 HARDENER
FAMILY/CHEMICAL NAME:
POLYAMIDE/AMINE
PRODUCT TYPE:
EPOXY ADHESIVE HARDENER
IMPORTANT:

* *
THIS MATERIAL WILL NOT BE SOLD FOR USE IN PRODUCTS FOR WHICH PROLONGED CONTACT WITH MUCOUS MEMBRANES OR ABRADED SKIN, OR IMPLANTATION WITHIN THE HUMAN BODY, IS SPECIFICALLY INTENDED. BECAUSE OF THE WIDE RANGE OF SUCH POTENTIAL USES, CIBA-GEIGY CORPORATION IS NOT ABLE TO RECOMMEND THIS MATERIAL AS SAFE AND EFFECTIVE FOR SUCH USES AND ASSUMES NO LIABILITY FOR ANY SUCH USES.
* *

HAZARD STATEMENT :

* *
THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200.
THIS PRODUCT IS CONSIDERED TO BE A HAZARDOUS CHEMICAL UNDER THAT STANDARD.
* *

SECTION II-HAZARDOUS INGREDIENTS

CHEMICAL NAME: (N,N)-DIMETHYL-DIPROPYLTRIAMINE
COMMON NAME : ALIPHATIC TRIAMINE
CAS NUMBER : 010563-29-8

CARCINOGENICITY: THIS MATERIAL IS NOT CONSIDERED TO BE A CARCINOGEN BY NTP, IARC, OR OSHA.

* * *

CHEMICAL NAME: FATTY ACIDS, C18 UNSATURATED, DIMERS, REACTION PRODUCTS WITH POLYETHYLENE POLYAMINES
COMMON NAME : POLYETHYLENE AMIDO AMINES
CAS NUMBER : 068410-23-1
CARCINOGENICITY: THIS MATERIAL IS NOT CONSIDERED TO BE A CARCINOGEN BY NTP, IARC, OR OSHA.

* * *

SECTION III-PHYSICAL DATA

APPEARANCE AND ODOR:
CLEAR AMBER LIQUID, WITH AMMONIACAL ODOR
BOILING POINT:
NOT DETERMINED.
EVAPORATION RATE:
NOT DETERMINED.
PERCENT VOLATILE:
< 1%.
VAPOR DENSITY:
NOT DETERMINED.
SOLUBILITY IN WATER:
INSOLUBLE.
PH:
NOT DETERMINED.
SPECIFIC GRAVITY:
0.9 - 1.0 (WATER - 1)

SECTION IV-FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:
> 248F (PMCC)
FLAMMABLE LIMITS IN AIR-LOWER:
NOT ESTABLISHED.
FLAMMABLE LIMITS IN AIR-UPPER:
NOT ESTABLISHED.
EXTINGUISHING MEDIA:
CARBON DIOXIDE, DRY CHEMICAL, FOAM, WATER.
FIRE FIGHTING PROCEDURES-SPECIAL:
USE SELF-CONTAINED BREATHING APPARATUS.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
DECOMPOSITION AND COMBUSTION PRODUCTS MAY BE TOXIC.

SECTION V-REACTIVITY DATA

STABILITY:
STABLE.
CONDITIONS TO AVOID:
EXCESSIVE HEAT FOR PROLONGED PERIODS OF TIME.
INCOMPATIBILITY:

STRONG OXIDIZERS, ACIDS AND BASES.

HAZARDOUS DECOMPOSITION PRODUCTS:
COMBUSTION MAY FORM TOXIC MATERIALS, SUCH AS CARBON DIOXIDE, CARBON MONOXIDE.

HAZARDOUS POLYMERIZATION:
WILL NOT OCCUR.

SECTION VI-HEALTH HAZARD DATA

PRIMARY ROUTES OF EXPOSURE:
DERMAL; HEATED PRODUCT MAY PRODUCE INHALABLE VAPORS.

THRESHOLD LIMIT VALUE:
NONE ESTABLISHED FOR THIS PRODUCT. SEE THE HAZARDOUS INGREDIENTS SECTION.

SKIN IRRITATION:
CORROSIVE

EYE IRRITATION:
REGARD AS CORROSIVE

OVEREXPOSURE EFFECTS:
DANGER CORROSIVE. CAUSES SKIN AND EYE BURNS.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:
SKIN AND EYE CONDITIONS.

EMERGENCY AND FIRST AID PROCEDURES-EYES:
IMMEDIATELY FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN.

EMERGENCY AND FIRST AID PROCEDURES-SKIN:
WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE RE-USE.

EMERGENCY AND FIRST AID PROCEDURES-INGESTION:
IF CONSCIOUS, GIVE PLENTY OF WATER TO DRINK. DO NOT INDUCE VOMITING. CALL A PHYSICIAN.

EMERGENCY AND FIRST AID PROCEDURES-INHALATION:
REMOVE TO FRESH AIR. GIVE OXYGEN AND/OR ARTIFICIAL RESPIRATION, IF NEEDED. CALL A PHYSICIAN.

EMERGENCY AND FIRST AID PROCEDURES-OTHER:
REFERRAL TO A PHYSICIAN IS RECOMMENDED IF THERE IS ANY QUESTION ABOUT THE SERIOUSNESS OF ANY INJURY.

SECTION VII-SPILL OR LEAK PROCEDURES

SPILL PROCEDURES:
REMOVE SPILLAGE BY ABSORBING IN ABSORBENT MATERIAL.

WASTE DISPOSAL METHODS:
CONSULT QUALIFIED LOCAL OR CORPORATE PERSONNEL FOR METHOD THAT WILL COMPLY WITH LOCAL, STATE AND FEDERAL HEALTH AND ENVIRONMENTAL REGULATIONS.

SECTION VIII-SPECIAL PROTECTION INFORMATION

VENTILATION:
GENERAL MECHANICAL AND LOCAL EXHAUST IN ACCORDANCE WITH ACGIH RECOMMENDATIONS.

PROTECTIVE GLOVES:

WEAR IMPERMEABLE GLOVES.

EYE PROTECTION:

WEAR SPLASH-PROOF CHEMICAL GOGGLES.

RESPIRATORY PROTECTION:

USE NIOSH APPROVED ORGANIC VAPOR CARTRIDGE RESPIRATOR WHEN VAPOR/MIST EXPOSURE IS LIKELY.

SECTION IX-SPECIAL PRECAUTIONS

HANDLING, SHIPPING AND STORING PRECAUTIONS:

DANGER CORROSIVE - CAUSES SKIN AND EYE BURNS. DO NOT GET IN EYES, ON SKIN, ON CLOTHING. AVOID BREATHING VAPOR OR MIST. KEEP CONTAINER CLOSED. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING.

HANDLING PRECAUTIONS:

NUISANCE DUST MAY BE GENERATED WHEN SANDING OR SAWING CURED MATERIAL.

SECTION X- REGULATORY INFORMATION

DOT PROPER SHIPPING NAME:

LIQUID PLASTIC, N.O.I.

DOT CLASS:

NOT REGULATED.

RCRA STATUS:

NOT A HAZARDOUS WASTE UNDER RCRA (40 CFR 261).

SARA/TITLE III - TOXIC CHEMICALS LIST:

THIS PRODUCT DOES NOT CONTAIN A TOXIC CHEMICAL FOR ROUTINE ANNUAL 'TOXIC CHEMICAL RELEASE REPORTING' UNDER SEC. 313 (40 CFR 372).

TSCA INVENTORY STATUS:

CHEMICAL COMPONENTS LISTED ON TSCA INVENTORY.

PENNSYLVANIA RIGHT-TO-KNOW ACT:

THE FOLLOWING IS REQUIRED COMPOSITION INFORMATION.

CHEMICAL NAME	:	1,3-PROPANEDIAMINE, N'-(3-AMINOPROPYL)-N,N-DIMETHYL-
CAS NUMBER	:	10563-29-8
COMMENTS	:	NOT ON PENNSYLVANIA HAZARDOUS SUBSTANCE LIST.

* * *

CHEMICAL NAME	:	FATTY ACIDS, C18-UNSATD., DIMERS, REACTION PRODUCTS WITH POLYETHYLENEPOLYAMINES
CAS NUMBER	:	68410-23-1
COMMON NAME	:	POLYETHYLENEAMIDO AMINES
COMMENTS	:	NOT ON PENNSYLVANIA HAZARDOUS SUBSTANCE LIST.

* * *

ISSUE DATE: 12/10/88 REVISION: 07C ISSUED BY: PETER HENIGE
FOR FURTHER INFORMATION, PLEASE CONTACT: PRODUCT SAFETY DIR

THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED UPON DATA BELIEVED TO BE CORRECT. HOWEVER, NO GUARANTEE OR WARRANTY OF ANY KIND EXPRESSED OR IMPLIED IS MADE WITH RESPECT TO THE INFORMATION CONTAINED HEREIN.

DOW CORNING CORPORATION
MATERIAL SAFETY DATA SHEET

MATL NAME: DOW CORNING(R) 732 MULTI-PURPOSE SEALANT-BLACK
EMERGENCY TELEPHONE NO. (517) 496-5900

SECTION I - GENERAL INFORMATION

MANUFACTURER'S NAME: DOW CORNING CORPORATION
ADDRESS: SOUTH SAGINAW ROAD, MIDLAND MI 48686

PROPER SHIPPING NAME(49CFR 172.101): NONE
D.O.T. HAZARD NAME(49CFR 172.101): NONE
D.O.T. ID NO(49CFR 172.101): NONE
D.O.T. HAZARD CLASS(49CFR 172.101): NONE
RCRA HAZARD CLASS(40CFR 261)(IF DISCARDED): NONE
E.P.A. PRIORITY POLLUTANTS(40CFR 122.53): NONE
NFPA = NATIONAL FIRE PROTECTION ASSOCIATION - 704
HEALTH (NFPA): 1 FLAMMABILITY (NFPA): 1 REACTIVITY (NFPA): 0
CAS NO: MIXTURE DOW CORNING WARNING CODE: NOT USED
GENERIC DESCRIPTION: SILICONE

SECTION II - HAZARDOUS INGREDIENTS AS DEFINED IN 29 CFR 1910.1200 (CARCINOGENS IDENTIFIED WITH AN ASTERISK *)

CAS NO.	INGREDIENT	WT.%	EXPOSURE LIMITS
004253343	METHYLTRIACETOXYSILANE	2	SEE COMMENT BELOW.
017689779	ETHYLTRIACETOXYSILANE	3	SEE COMMENT BELOW.
007631869	SILICA	10	OSHA PEL: TWA 20 MPPCF ACGIH TLV: TWA 10 MG/M3 TOTAL DUST

COMMENT: OBSERVE LIMITS FOR ACETIC ACID, FORMED DURING CURING ON EXPOSURE TO WATER OR HUMID AIR. OSHA PEL: TWA 10 PPM. ACGIH TLV: TWA 10 PPM, STEL 15 PPM.

SECTION III - EFFECTS OF OVEREXPOSURE

EYE: DIRECT CONTACT IRRITATES SLIGHTLY TO MODERATELY WITH REDNESS AND SWELLING.

SKIN: A SINGLE SHORT EXPOSURE (LESS THAN 24 HOURS) MAY IRRITATE. REPEATED PROLONGED CONTACT (24 TO 48 HOURS) MAY IRRITATE MODERATELY.

INHALATION VAPOR OVEREXPOSURE MAY IRRITATE EYES, NOSE AND THROAT.

ORAL: SMALL AMOUNTS TRANSFERRED TO THE MOUTH BY FINGERS DURING USE, ETC., SHOULD NOT INJURE. SWALLOWING LARGE AMOUNTS MAY CAUSE DIGESTIVE DISCOMFORT.

COMMENTS: NO INJURY FROM SILICA DUST SHOULD OCCUR DURING REASONABLE USE. IF USE CREATES RESPIRABLE PARTICLES, SOME RESPIRATORY SYSTEM INJURY MAY OCCUR. CURED SEALANT IS NONHAZARDOUS.

THIS PRODUCT, AS WITH ANY CHEMICAL, MAY ENHANCE ALLERGIC CONDITIONS ON CERTAIN PEOPLE. WE DO NOT KNOW OF ANY MEDICAL CONDITIONS THAT MIGHT BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

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MATL NAME: DOW CORNING(R) 732 MULTI-PURPOSE SEALANT-BLACK

SECTION IV - EMERGENCY AND FIRST AID PROCEDURES

EYES: FLUSI' WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION.

SKIN: WIPE OFF AND FLUSH WITH WATER. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS

INHALATION REMOVE TO FRESH AIR.

ORAL: NO F'RST AID SHOULD BE NEEDED.

COMMENTS: I'ONE

SECTION V - FIRE AND EXPLOSION DATA

FLASH POIN' (METHOD USED): OPEN CUP ABOVE 250F/120C
AUTOIGNITI'N: NOT DETERMINED
FLAMMABILI'Y LIMITS IN AIR : LOWER:N.D. UPPER:N.D.

EXTINGUISH'NG MEDIA: WATER WATER FOG X CO2 X DRY CHEMICAL X FOAM X OTHER

SPECIAL FI'E FIGHTING PROCEDURES: SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING SHOULD BE WORN IN FIGHTING FIRES INVOLVING CHEMICALS

UNUSUAL FI'E AND EXPLOSION HAZARDS: NONE KNOWN TO DOW CORNING.

COMMENTS: I'.D. - NOT DETERMINED.

SECTION VI - PHYSICAL DATA

BOILING PO'NT(AT 760 MM HG): NOT APPLICABLE
SPECIFIC G'AVITY (AT 77 DEG F/25 DEG C): 1.04
MELTING PO'NT: NOT APPLICABLE
VAPOR PRES'URE (AT 77 DEG F/25 DEG C): LESS THAN 5 MM
VAPOR DENS TY (AIR = 1 AT 77 DEG F/25 DEG C): ABOVE 1
PERCENT VO'ATILE BY WEIGHT (%): LESS THAN 5
EVAPORATIO' RATE (ETHER = 1): NOT APPLICABLE
SOLUBILITY IN WATER(%): LESS THAN 0.1
ODOR, APPE RANCE, COLOR: ACETIC ACID-LIKE, PASTE, BLACK.

NOTE: THE ABOVE INFORMATION IS NOT INTENDED FOR USE IN PREPARING PRODUCT SPECIFICAT ONS. CONTACT DOW CORNING BEFORE WRITING SPECIFICATIONS.

DOW CORNING CORPORATION
MATERIAL SAFETY DATA SHEET

MATL NAME: DOW CORNING(R) 732 MULTI-PURPOSE SEALANT-BLACK

SECTION VII - REACTIVITY DATA

STABILITY: STABLE

INCOMPATABILITY(MATERIAL TO AVOID): OXIDIZING MATERIAL CAN CAUSE A REACTION. AIR OR MOISTURE CAUSES CURING AND ACETIC ACID VAPORS FORM.

CONDITIONS TO AVOID: EXPOSURE TO AIR OR MOISTURE UNTIL READY TO USE.

HAZARDOUS DECOMPOSITION PRODUCTS: SILICON DIOXIDE, CARBON DIOXIDE, AND TRACES OF INCOMPLETELY BURNED CARBON PRODUCTS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: NOT APPLICABLE

COMMENTS: NONE

SECTION VIII - SPILL, LEAK, MAINTENANCE/REPAIR AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE PRODUCT AND CONTAINER FOR SALVAGE OR DISPOSAL.

PROTECTIVE EQUIPMENT:
EYES: USE PROPER PROTECTION -- SAFETY GLASSES, AS A MINIMUM.

SKIN: WASHING AT MEALTIME AND END OF SHIFT IS ADEQUATE. REMOVE CONTAMINATED CLOTHING AND SHOES AS SOON AS PRACTICAL AND CLEAN THOROUGHLY BEFORE REUSE. RUBBER OR PLASTIC GLOVES ARE RECOMMENDED.

INHALATION USE RESPIRATORY PROTECTION UNLESS LOCAL EXHAUST VENTILATION IS ADEQUATE OR AIR SAMPLING DATA SHOW EXPOSURES ARE WITHIN TLV AND PEL GUIDELINES.

WASTE DISPOSAL METHOD: DOW CORNING SUGGESTS THAT ALL LOCAL, STATE AND FEDERAL REGULATIONS CONCERNING HEALTH AND POLLUTION BE REVIEWED TO DETERMINE APPROVED DISPOSAL PROCEDURES. CONTACT DOW CORNING IF THERE ARE ANY DISPOSAL QUESTIONS.

D.O.T. (49 FR 171.8)/E.P.A. (40CFR 117) SPILL REPORTING INFORMATION
HAZARDOUS SUBSTANCE: NONE REPORTABLE QUANTITY: NOT APPLICABLE
CONCENTRATION OF HAZARDOUS SUBSTANCE: NOT APPLICABLE
REPORTABLE QUANTITY OF PRODUCT: NOT APPLICABLE

COMMENTS: NONE

DOW CORNING CORPORATION
MATERIAL SAFETY DATA SHEET

MATL NAME: DOW CORNING(R) 732 MULTI-PURPOSE SEALANT-BLACK

SECTION IX - ROUTINE HANDLING PRECAUTIONS

PROTECTIVE EQUIPMENT:
EYES: USE PROPER EYE PROTECTION -- SAFETY GLASSES, AS A MINIMUM.

SKIN *: WASHING AT MEALTIME AND END OF SHIFT IS ADEQUATE. REMOVE CONTAMINATED CLOTHING AND SHOES AS SOON AS PRACTICAL AND CLEAN THOROUGHLY BEFORE REUSE. RUBBER OR PLASTIC GLOVES ARE RECOMMENDED.

INHALATION: USE RESPIRATORY PROTECTION UNLESS LOCAL EXHAUST VENTILATION IS ADEQUATE OR AIR SAMPLING DATA SHOW EXPOSURES ARE WITHIN TLV AND PEL GUIDELINES.

VENTILATION:
LOCAL EXHAUST: MAY BE NEEDED.
MECHANICAL (GENERAL): RECOMMENDED

SUITABLE RESPIRATOR: ACID GAS/ORGANIC VAPOR TYPE.

THESE PRECAUTIONS ARE FOR ROOM TEMPERATURE HANDLING; USE AT ELEVATED TEMPERATURES, OR AEROSOL/SPRAY APPLICATIONS, MAY REQUIRE ADDED PRECAUTIONS.
* GOOD PRACTICE REQUIRES THAT GROSS AMOUNT OF ANY CHEMICAL BE REMOVED FROM THE SKIN AS SOON AS PRACTICAL, ESPECIALLY BEFORE EATING OR SMOKING.
COMMENTS: AVOID BREATHING VAPORS AND EYE AND SKIN CONTACT. USE ONLY WITH ADEQUATE VENTILATION. DO NOT TAKE INTERNALLY.

SECTION X - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: STORE BELOW 90F/32C. KEEP CONTAINER CLOSED WHEN NOT IN USE.

OTHER PRECAUTIONS: TRACES OF FORMALDEHYDE AND OTHER THERMAL DECOMPOSITION PRODUCTS MAY FORM AT TEMPERATURES ABOVE 150C IN THE PRESENCE OF AIR. PROVIDE VENTILATION TO CONTROL VAPOR EXPOSURE WITHIN INHALATION GUIDELINES WHEN HANDLING AT ELEVATED TEMPERATURES.
COMMENTS: NONE

THESE DATA ARE OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE.

PREPARED BY: JACK L. SHENEBERGER
LAST REVISION DATE: JULY 19, 1988
PREVIOUS REVISION DATE: JANUARY 10, 1986
DATE: JULY 21, 1989

(R) INDICATES REGISTERED OR TRADEMARK OF THE DOW CORNING CORPORATION.

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3M Center
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Duns No.: 00-617-3082

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MATERIAL SAFETY
DATA SHEET

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JANUARY 13, 1990

MZ-85-MZ11509-HRP8355

FALCON JET CORP
90 MOONACHIE AVE
MOONACHIE NJ 07074-1507

Dear Customer:

Enclosed are Material Safety Data Sheets (MSDSs) for products that your company recently purchased from 3M. Your purchase order numbers are listed on the last page of this packet for your reference.

Our objective in sending this information is to help you protect the health and safety of your personnel and to comply with the OSHA Hazard Communication Standard and Title III of the Superfund Amendments and Reauthorization Act of 1986. The OSHA standard requires that all personnel who may be exposed to hazardous materials must be provided by their employer with accurate information on the potential hazards of the materials and trained in proper work practices to minimize any risk.

Please forward the attached MSDS(s) to the individual in your organization responsible for implementing these regulations. If your purchase order designated that the material be shipped to an address other than the billing address, both addresses received a copy of the MSDS.

If you are a distributor and resell this product, OSHA and EPA require that you transmit this MSDS information to your customers at the time of first shipment or whenever you receive revised MSDSs from 3M.

This letter and accompanying MSDS(s) were created using a 3M computerized system which automatically prints and mails an MSDS when a product is first ordered by a customer or when there has been a change to the MSDS. 3M is committed to meeting our customer requirements, and asks that you contact your 3M customer service or sales representative if you have any questions or problems in this regard.

Sincerely,

F. D. Griffith, Ph.D.
Manager, Toxicology Services

Enclosure(s)

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MATERIAL SAFETY
DATA SHEET

DIVISION: AEROSPACE MATERIALS DEPARTMENT
TRADE NAME:
EC-3524 Part A
3M I.D. NUMBER: 62-3524-6101-6 62-3524-6701-3 62-3524-8640-1

ISSUED: JANUARY 1, 1990
SUPERSEDES: AUGUST 4, 1989
DOCUMENT: 10-4960-0

1. INGREDIENT	C.A.S. NO.	PERCENT	EXPOSURE LIMITS VALUE	UNIT	TYPE	AUTH
amine terminated polymer - N.J. Trade Secret (T.S.) Registry No. 04499600-5573P	T.S.	50.0 - 60.0	NONE	NONE	NONE	NONE
glass bubbles	none	20.0 - 30.0	NONE	NONE	NONE	NONE
flame retardant	13560-89-9	10.0 - 20.0	NONE	NONE	NONE	NONE
2,4,6-tris (dimethylamino)methyl phenol	90-72-2	1.0 - 10.0	5	ppm	TWA	CMRG
triphenylphosphite	68610-62-8	1.0 - 10.0	NONE	NONE	NONE	NONE

SOURCE OF EXPOSURE LIMIT DATA:
- CMRG: Chemical Manufacture Recommended Guidelines
- NONE: None Established

NOTE: To be used with EC-3524-B; MSDS DOC #1049592.

2. PHYSICAL DATA

BOILING POINT:..... N/A
VAPOR PRESSURE:..... N/A
VAPOR DENSITY: ..... N/A
EVAPORATION RATE:..... N/A
SOLUBILITY IN WATER: ..... Very slight
SP. GRAVITY:..... 0.500 Water = 1
PERCENT VOLATILE: ..... 0.00 %
VOLATILE ORGANICS: ..... N/A
pH: ..... N/A
VISCOSITY: ..... Paste
APPEARANCE AND ODOR: White, paste, characteristic amine odor

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... > 200.00 F
FLAMMABLE LIMITS - LEL: ..... N/A
FLAMMABLE LIMITS - UEL: ..... N/A
AUTOIGNITION TEMPERATURE: ... N/D
EXTINGUISHING MEDIA:
CO2, foam, dry chemical
SPECIAL FIRE FIGHTING PROCEDURES:
Fire fighters should be equipped with self-contained breathing apparatus when handling this material.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
None.
NFPA-HAZARD-CODES: HEALTH 1 FIRE 0 REACTIVITY 1
UNUSUAL REACTION HAZARD: None

Abbreviations: N/D - Not Determined N/A - Not Applicable

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MATERIAL SAFETY
DATA SHEET

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MSDS: EC-3524 Part A
JANUARY 1, 1990

4. REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY - MATERIALS TO AVOID:
N/A
HAZARDOUS POLYMERIZATION: Will Not Occur
HAZARDOUS DECOMPOSITION PRODUCTS:
CO, CO2 plus nitrogen and chlorine containing compounds when subjected to excessive heat or flame.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:
Ventilate area. Observe precautions from other sections. Only properly protected personnel should remain in the immediate area. Post the area to prevent admittance by unprotected personnel. Contain the spill by covering with loose, absorbent material (sawdust or oil dry). Place in a suitable open top metal container (U.S. Department of Transportation - approved if waste is to be shipped). Remove waste and container to well ventilated area and treat by spraying with a dilute ammonia solution (90% water, 8% concentrated NH4OH and 2% liquid detergent). Leave ventilated 24 hours, then seal container. Wash down area with dilute ammonia solution to neutralize remaining residue of isocyanate.

RECOMMENDED DISPOSAL:
FOR ACCELERATOR ONLY and/or TWO PART PRODUCT (WHEN PARTS HAVE BEEN MIXED TOGETHER): Fully-cured or neutralized waste may be disposed in a sanitary landfill. Incinerate unused or partially cured bulk product after mixing with flammable material in an industrial or commercial facility. Disposal should be in accordance with applicable regulations.

ENVIRONMENTAL DATA:
Volatile Organic Compound (VOC):
Maximum VOC = N/A.
Maximum VOC minus Water minus Exempt Solvents = N/A.

SARA HAZARD CLASS:
FIRE HAZARD: No **PRESSURE:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes

6. SUGGESTED FIRST AID

EYE CONTACT:
Flush eyes with large amounts of water for at least 10 minutes. Call a physician.

SKIN CONTACT:
Thoroughly wash affected area with soap and water.

INHALATION:
Provide fresh air. Call a physician.

IF SWALLOWED:
Do not induce vomiting. Immediately call a physician or poison

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MATERIAL SAFETY
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MSDS: EC-3524 Part A
JANUARY 1, 1990

6. SUGGESTED FIRST AID (continued)

control center.

OTHER FIRST AID:
NONE

7. PRECAUTIONARY INFORMATION

FOR INDUSTRIAL OR PROFESSIONAL USE ONLY. This material is part of a two component system. The precautions for each component should be observed when separate or mixed. Do not breathe vapors. Use only in areas with sufficient ventilation to maintain airborne concentrations below recommended exposure limits, local exhaust may be necessary. If local exhaust is unavailable or ventilation is insufficient to maintain airborne concentrations below recommended exposure limits use a N.I.O.S.H. approved respirator e.g. an air-supplied or self-contained breathing apparatus. Post the work area to prevent entry by unprotected individuals. Prevent contact with eyes and skin by using suitable personal protective equipment, i.e. chemical goggles, rubber or plastic gloves and protective clothing when handling this material. Remove contaminated clothing and launder before reuse. Wash thoroughly after handling material. Keep container tightly closed when not in use. Keep out of the reach of children.

8. HEALTH HAZARD DATA

EYE CONTACT: May be irritating to the eyes upon direct contact. Symptoms may include edema, redness, tearing, burning sensation and blurred vision.

SKIN CONTACT: Acute exposure is mildly irritating. Prolonged or repeated contact will produce defatting and resultant dermatitis. May cause an allergic skin reaction in susceptible individuals.

INHALATION: During heat curing operations, vapors may be irritating to the respiratory system. During normal room temperature curing operations vapor inhalation is not anticipated.

INGESTION: May cause digestive system irritation.

SECTION CHANGE DATES

HEADING **SECTION CHANGED SINCE** AUGUST 4, 1989 **ISSUE**

Abbreviations: N/D - Not Determined N/A - Not Applicable

The information on this Data Sheet represents our current data and best opinion as to the proper use in handling of this material under normal conditions. Any use of the material which is not in conformance with this Data Sheet or which involves using the material in combination with any other material or any other process is the responsibility of the user.

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Duns No.: 00-617-3082

MATERIAL SAFETY
DATA SHEET

DIVISION: AEROSPACE MATERIALS DEPARTMENT
TRADE NAME:
EC-3524 Part B
3M I.D. NUMBER: 62-3524-6101-6 62-3524-6701-3 62-3524-8640-1 62-3524-9501-4

ISSUED: JANUARY 1, 1990
SUPERSEDES: AUGUST 17, 1989
DOCUMENT: 10-4959-2

1. INGREDIENT	C.A.S. NO.	PERCENT	EXPOSURE LIMITS VALUE UNIT	TYPE AUTH
epoxy resin	25068-38-6	40.0 - 50.0	NONE NONE	NONE NONE
epoxy resin - Vendor Trade Secret (V.T.S.)	V.T.S.	20.0 - 30.0	NONE NONE	NONE NONE
glass bubbles	None	20.0 - 30.0	NONE NONE	NONE NONE
antimony trioxide	1309-64-4	1.0 - 10.0	0.5 mg/m3 Sb	TWA ACGI

SOURCE OF EXPOSURE LIMIT DATA:
- ACGIH: American Conference of Governmental Industrial Hygienists
- NONE: None Established

NOTE: To be used with EC-3524-A; MSDS DOC #1049600.

2. PHYSICAL DATA

BOILING POINT:..... N/A
VAPOR PRESSURE:..... N/A
VAPOR DENSITY: ..... N/A
EVAPORATION RATE:..... N/A
SOLUBILITY IN WATER: ..... Very slight
SP. GRAVITY:..... 0.620 Water = 1
PERCENT VOLATILE: ..... 0.00 %
VOLATILE ORGANICS: ..... N/A
pH: ..... N/A
VISCOSITY: ..... Paste
APPEARANCE AND ODOR: Blue, paste, characteristic epoxy odor

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... > 200.00 F
FLAMMABLE LIMITS - LEL: ..... N/A
FLAMMABLE LIMITS - UEL: ..... N/A
AUTOIGNITION TEMPERATURE: ... N/D
EXTINGUISHING MEDIA:
CO2, foam, dry chemical
SPECIAL FIRE FIGHTING PROCEDURES:
Fire fighters should be equipped with self-contained breathing apparatus when fighting fires involving this material.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
None.
NFPA-HAZARD-CODES: HEALTH 2 FIRE 0 REACTIVITY 1
UNUSUAL REACTION HAZARD: None

4. REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY - MATERIALS TO AVOID:
N/A

Abbreviations: N/D - Not Determined N/A - Not Applicable

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MATERIAL SAFETY
DATA SHEET

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MSDS: EC-3524 Part B
JANUARY 1, 1990

4. REACTIVITY DATA (continued)

HAZARDOUS POLYMERIZATION: Will Not Occur
HAZARDOUS DECOMPOSITION PRODUCTS:
CO, CO2 and bromine decomposition products when subjected to excessive heat or flame.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:
Ventilate the area. Observe precautions from other sections. Collect spilled material. Place in a suitable U.S. Department of Transportation approved container, and seal.

RECOMMENDED DISPOSAL:
FOR BASE ONLY: DO NOT LANDFILL when in liquid form. Incinerate bulk product after mixing with flammable material in an industrial or commercial facility. Disposal should be in accordance with applicable regulations. FOR BASE (WHEN MIXED WITH ACCELERATOR): Fully cured or neutralized waste may be disposed in a sanitary landfill. Incinerate unused or partially cured bulk product after mixing with flammable material in and industrial or commercial facility. Disposal should be in accordance with applicable regulations.

ENVIRONMENTAL DATA:
Volatile Organic Compound (VOC):
Maximum VOC = N/A.
Maximum VOC minus Water minus Exempt Solvents = N/A.

SARA HAZARD CLASS:
FIRE HAZARD: No **PRESSURE:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes

6. SUGGESTED FIRST AID

EYE CONTACT:
Flush eyes with large amounts of water for at least 10 minutes. Call a physician.

SKIN CONTACT:
Thoroughly wash affected area with soap and water.

INHALATION:
Provide fresh air. Call a physician.

IF SWALLOWED:
Do not induce vomiting. Immediately call a physician or poison control center.

OTHER FIRST AID:
NONE

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Duns No.: 00-617-3082

MATERIAL SAFETY
DATA SHEET

MSDS: EC-3524 Part B
JANUARY 1, 1990

7. PRECAUTIONARY INFORMATION

FOR INDUSTRIAL OR PROFESSIONAL USE ONLY. This material is part of a two component system. The precautions for each component should be observed when separate or mixed. Avoid contact with eyes and skin; wear safety glasses and impervious gloves when handling material. Keep container closed when not in use. Keep out of the reach of children. PRECAUTIONS FOR TWO-COMPONENT MATERIAL: When this base is used in combination with the accelerator follow the precautions outlined in the accelerator EC-3524-Part A Material Safety Data Sheet.

ADDITIONAL EXPOSURE LIMITS

INGREDIENTS	EXPOSURE LIMITS VALUE	UNIT	TYPE	AUTH
antimony trioxide	0.5	mg/m3 Sb	TWA	OSHA

SOURCE OF EXPOSURE LIMIT DATA:
- OSHA: Occupational Safety and Health Administration

8. HEALTH HAZARD DATA

EYE CONTACT: Irritating to the eyes upon direct contact. Symptoms may include edema, redness, tearing, burning sensation and blurred vision.

SKIN CONTACT: Acute exposure is mildly irritating. Prolonged or repeated contact will produce defatting and resultant dermatitis. May cause an allergic skin reaction in susceptible individuals.

INHALATION: During curing operations, vapors may be irritating to the respiratory system.

INGESTION: May cause digestive system irritation.

NOTE: Antimony trioxide is considered a potential cancer hazard attributable to arsenic found in the chemical compound (ACGIH: Suspected Human Carcinogen A2 - Production Workers' Study).

SECTION CHANGE DATES

HEADING **SECTION CHANGED SINCE** AUGUST 17, 1989 **ISSUE**

Abbreviations: N/D - Not Determined N/A - Not Applicable

The information on this Data Sheet represents our current data and best opinion as to the proper use in handling of this material under normal conditions. Any use of the material which is not in conformance with this Data Sheet or which involves using the material in combination with any other material or any other process is the responsibility of the user.

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Duns No.: 00-617-3082

THIS PACKET CONTAINS MSDS TEXTS FOR THE FOLLOWING PURCHASE ORDERS:

611260

MATERIAL HEAL..I, SAFETY AND ENVIRONME..T DATA SHEET

PRODUCT NAME : MASTINOX 6856 H 1914/3600

PART RESERVED FOR THE USER :

FJC EMERGENCY PHONE NUMBERS : 201 288 53 00
800 526 70 71

IDENTIFICATION

PRODUCT NAME : MASTINOX 6856 H REF : 1914/3600 (0)
MANUFACTURER : INTERNATIONAL CELOMER
ADDRESS : Route nationale 15 76700 HARFLEUR FRANCE
PROPOSED USE OF MATERIAL : Protection of assemblies

CHEMICAL & PHYSICAL PROPERTIES

PHYSICAL STATE AT 68°F (20°C) SOLID : ☐ LIQUID : ☒ GAS : ☐ POWDER : ☐
OTHER (EXPLAIN) :

COLOR : Yellow ODOR :
BOILING POINT : 110°C FREEZING POINT :
SPECIFIC GRAVITY : 1.440 ($H^2O = 1,000$) VAPOR PRESSURE : 40 mm at 31.8°C
PH UNDILUTED : Neutral

COMPOSITION

CHEMICAL NAME FOR INGREDIENTS	% BY WT	CHEMICAL NAME FOR INGREDIENTS	% BY WT
Xylene	4.2		
Toluene	6.5		
Zinc Chromate	18.5		
Talc	23.1		
Polymer : polyester	46.2		

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FIRE PROTECTION INFORMATION

FLASH POINT : + 6°C METHOD USED : ABEL C.E AUTOIGNITION TEMPERATURE : 480°C
FLAMMABLE LIMITS.....LOWER : 1,2 % UPPER : 7,1 %
RECOMMENDED EXTIGUISHING MEDIA WATER : ☐ CO^2 : ☒ DRY CHEMICALS : ☒ HALON : ☐
OTHER :

STORAGE AND REACTIVITY

CONTAINERS USED : Tube - 1 kg box
RECOMMENDED STORAGE CONDITION : Store in a cool, well ventilated area

TIME OF CONSERVATION IN NORMAL STORAGE CONDITION : 2 years

THIS MATERIAL REACTS VIOLENTLY WITH WATER : ☐ AIR : ☐ OTHER :

MATERIAL HEALTH, SAFETY AND ENVIRONMENT DATA SHEET

PRODUCT NAME : PRIMER 7641/3600

PART RESERVED FOR THE USER :

FJC EMERGENCY PHONE NUMBERS : 201 288 53 00
800 526 70 71

IDENTIFICATION

PRODUCT NAME : PRIMER REF : 7641/3600
MANUFACTURER : INTERNATIONAL CELOMER
ADDRESS : 75 bd Winston Churchill 76600 LE HAVRE
PROPOSED USE OF MATERIAL : Phosphate primer

CHEMICAL & PHYSICAL PROPERTIES

PHYSICAL STATE AT 68°F (20°C) SOLID : ☐ LIQUID : ☒ GAS : ☐ POWDER : ☐
OTHER (EXPLAIN) :

COLOR : Yellow ODOR :
BOILING POINT : 79°C FREEZING POINT :
SPECIFIC GRAVITY : 0.95 ($H^2O = 1,000$) VAPOR PRESSURE : 50 mm at 20°C
PH UNDILUTED : N.C.

COMPOSITION

CHEMICAL NAME FOR INGREDIENTS	% BY WT	CHEMICAL NAME FOR INGREDIENTS	% BY WT
Zinc chromate	13		
Butanol	54		

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DEC - 6 198
Personnel Depart

FIRE PROTECTION INFORMATION

FLASH POINT : <21°C METHOD USED : ABEL AUTOIGNITION TEMPERATURE : Highly flammable
FLAMMABLE LIMITS.....LOWER : 1.4 UPPER : 10
RECOMMENDED EXTIGUISHING MEDIA WATER : ☐ CO^2 : ☒ DRY CHEMICALS : ☒ HALON : ☐
OTHER : Do not use water

STORAGE AND REACTIVITY

CONTAINERS USED : Metal cans
RECOMMENDED STORAGE CONDITION : To be kept in a cool place. Do not store near source of ignition.
To be kept in a ventilated dry room. Keep containers closed, electrostatic protection recommended.
TIME OF CONSERVATION IN NORMAL STORAGE CONDITION : 1 year.

THIS MATERIAL REACTS VIOLENTLY WITH WATER : ☐ AIR : ☐ OTHER :

MATERIAL HEALTH, SAFETY AND ENVIRONMENT DATA SHEET

PRODUCT NAME : 4980 THINNER 0480/9000

PART RESERVED FOR THE USER :

FJC EMERGENCY PHONE NUMBERS : 201 288 53 00
800 526 70 71

IDENTIFICATION

PRODUCT NAME : 4980 THINNER REF : 0480/9000
MANUFACTURER : INTERNATIONAL CELOMER
ADDRESS : Route nationale 15 GONFREVILLE L'ORCHER
PROPOSED USE OF MATERIAL : PAINT RESTORATION

CHEMICAL & PHYSICAL PROPERTIES

PHYSICAL STATE AT 68°F (20°C) SOLID : ☐ LIQUID : ☒ GAS : ☐ POWDER : ☐
OTHER (EXPLAIN) :

COLOR : Colourless
ODOR : Benzenic like odor
BOILING POINT : 100°C
FREEZING POINT :
SPECIFIC GRAVITY : 0,857 ($H^2O = 1,000$)
VAPOR PRESSURE : 40 mm at 31.8 °C
PH UNDILUTED :

COMPOSITION

CHEMICAL NAME FOR INGREDIENTS	% BY WT
Ketone	14
Acetate	21
Alcohol	8
Benzenic hydrocarbon	57

CHEMICAL NAME FOR INGREDIENTS % BY WT

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DEC - 6 198
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FIRE PROTECTION INFORMATION

FLASH POINT : - 6°C METHOD USED : AUTOIGNITION TEMPERATURE : 110°C
FLAMMABLE LIMITS.....LOWER : 1 % UPPER : 7
RECOMMENDED EXTIGUISHING MEDIA WATER : ☐ CO^2 : ☒ DRY CHEMICALS : ☒ HALON : ☐
OTHER :

STORAGE AND REACTIVITY

CONTAINERS USED : Metal containers
RECOMMENDED STORAGE CONDITION : To be kept in a cool place. Do not store near source of ignition.
To be kept in a ventilated dry room. Keep containers closed, electrostatic protection recommended.
TIME OF CONSERVATION IN NORMAL STORAGE CONDITION : N.C.

THIS MATERIAL REACTS VIOLENTLY WITH WATER : ☐ AIR : ☐ OTHER :

MATERIAL HEALTH, SAFETY AND ENVIRONMENT DATA SHEET

PRODUCT NAME : PR 1436-GA 1/2 PART A BASE COMPOUND

PART RESERVED FOR THE USER :

FJC EMERGENCY PHONE NUMBERS : 201 288 53 00
800 526 70 71

IDENTIFICATION

PRODUCT NAME : PR 1436-GA Part A REF :
MANUFACTURER : LE JOINT FRANCAIS
ADDRESS : 95871 BEZONS FRANCE
PROPOSED USE OF MATERIAL : PART B OF A TWO PART SEALANT

CHEMICAL & PHYSICAL PROPERTIES

PHYSICAL STATE AT 68°F (20°C) SOLID : ☒ LIQUID : ☐ GAS : ☐ POWDER : ☐
OTHER (EXPLAIN) :

COLOR : Black
ODOR : Toluene
BOILING POINT :
FREEZING POINT :
SPECIFIC GRAVITY : 1.35 ($H^2O = 1,000$)
VAPOR PRESSURE :
PH UNDILUTED :

COMPOSITION

CHEMICAL NAME FOR INGREDIENTS	% BY WT	CHEMICAL NAME FOR INGREDIENTS	% BY WT
Polysulfide rubber compound			
Methyl Ethyl Ketone	< 5		
Toluene	< 5		
Strontium chromate	3 to 6		

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FIRE PROTECTION INFORMATION

FLASH POINT : 10°C METHOD USED : PMCC AUTOIGNITION TEMPERATURE :
FLAMMABLE LIMITS.....LOWER : UPPER :
RECOMMENDED EXTIGUISHING MEDIA WATER : ☐ CO^2 : ☒ DRY CHEMICALS : ☒ HALON : ☐
OTHER :

STORAGE AND REACTIVITY

CONTAINERS USED : Cans
RECOMMENDED STORAGE CONDITION : 40 to 80°F.

TIME OF CONSERVATION IN NORMAL STORAGE CONDITION : 6 months

THIS MATERIAL REACTS VIOLENTLY WITH WATER : ☐ AIR : ☐ OTHER :

MATERIAL HEALTH, SAFETY AND ENVIRONMENT DATA SHEET

PRODUCT NAME : PR 1436-GA 1/2 PART B ACCELERATOR

PART RESERVED FOR THE USER :

FJC EMERGENCY PHONE NUMBERS : 201 288 53 00
800 526 70 71

IDENTIFICATION

PRODUCT NAME : PR 1436-GA Part B REF :
MANUFACTURER : LE JOINT FRANCAIS
ADDRESS : 95871 BEZONS FRANCE
PROPOSED USE OF MATERIAL : Protection of bonding strips and protection against corrosion

CHEMICAL & PHYSICAL PROPERTIES

PHYSICAL STATE AT 68°F (20°C) SOLID : ☒ LIQUID : ☐ GAS : ☐ POWDER : ☐
OTHER (EXPLAIN) :

COLOR : Aluminium ODOR : DMF
BOILING POINT : FREEZING POINT :
SPECIFIC GRAVITY : 1.5 ($H^2O = 1,000$) VAPOR PRESSURE :
PH UNDILUTED :

COMPOSITION

CHEMICAL NAME FOR INGREDIENTS	% BY WT
Inorganic dichromate solution	
DMF	~ 20
Calcium dichromate Magnesium dichromate	~ 35 to 40
ASBESTOS	~ 5

CHEMICAL NAME FOR INGREDIENTS % BY WT

(ASBESTOS is totally encapsulated in a paste form and no fibres are likely to be released).

FIRE PROTECTION INFORMATION

FLASH POINT : >110°C METHOD USED : PMCC AUTOIGNITION TEMPERATURE :
FLAMMABLE LIMITS.....LOWER : UPPER :
RECOMMENDED EXTIGUISHING MEDIA WATER : ☐ CO^2 : ☒ DRY CHEMICALS : ☒ HALON : ☐
OTHER :

STORAGE AND REACTIVITY

CONTAINERS USED : Cans
RECOMMENDED STORAGE CONDITION : 40 to 80°F

TIME OF CONSERVATION IN NORMAL STORAGE CONDITION : 6 months

THIS MATERIAL REACTS VIOLENTLY WITH WATER : ☐ AIR : ☐ OTHER :

EXXON COMPANY, U.S.A.
A DIVISION OF EXXON CORPORATION

DATE ISSUED: 08/31/89
SUPERSEDES DATE: 06/01/89

MATERIAL SAFETY DATA SHEET

EXXON COMPANY, U.S.A. P.O. BOX 2180 HOUSTON, TX 77252-2180

A. IDENTIFICATION AND EMERGENCY INFORMATION

PRODUCT NAME
TURBO FUEL A

PRODUCT CODE
120400 - 00072

CHEMICAL NAME
Turbo Fuel A

CAS NUMBER
64742-47-8

PRODUCT APPEARANCE AND ODOR
Clear water-white liquid
Faint petroleum hydrocarbon odor

MEDICAL EMERGENCY TELEPHONE NUMBER
(713) 656-3424

B. COMPONENTS AND HAZARD INFORMATION

COMPONENTS	CAS NO. OF COMPONENTS	APPROXIMATE CONCENTRATION
Hydrotreated light distillate, petroleum	64742-47-8	100%

See Section E for Health and Hazard Information.

See Section H for additional Environmental Information.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)

Health	Flammability	Reactivity	BASIS
1	2	0	Recommended by Exxon

EXPOSURE LIMIT FOR TOTAL PRODUCT
100 ppm (735 mg/m3) for an 8-hour workday

BASIS
Recommended by Exxon

C. PRIMARY ROUTES OF ENTRY AND EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT
If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call a physician.

SKIN
In case of skin contact, remove any contaminated clothing and wash skin thoroughly with soap and water.

INHALATION
If overcome by vapor, remove from exposure and call a physician immediately. If breathing is irregular or has stopped, start resuscitation, administer oxygen, if available.

INGESTION
If ingested, DO NOT induce vomiting; call a physician immediately.

EFFECTS OF OVEREXPOSURE (Signs and symptoms of exposure)
Overexposure may cause gasping, nausea and disorientation.

Inhalation of high vapor concentrations (attainable at elevated temperature) may have results ranging from mild depression to respiratory irritation, nausea, disorientation, and possibly death. Prolonged or repeated liquid contact with the skin will dry and defat the skin, leading to possible irritation and dermatitis.

NATURE OF HAZARD AND TOXICITY INFORMATION
Prolonged or repeated skin contact with this product tends to remove skin oils, possibly leading to irritation and dermatitis; however, based on human experience and available toxicological data, this product is judged to be neither a "corrosive" nor an "irritant" by OSHA criteria.

Product contacting the eyes may cause eye irritation.

Lifetime skin painting studies conducted by the American Petroleum Institute, Exxon and others have shown that similar products boiling between 175-370°C (350-700°F) usually produce skin tumors and/or skin cancer in laboratory mice. The degree of carcinogenic response was weak to moderate with a relatively long latent period. The implications of these results for humans have not been determined.

Limited studies on oils that are very active carcinogens have shown that washing the animals' skin with soap and water between applications greatly reduces tumor formation. These studies demonstrate the effectiveness of cleansing the skin after contact.

Potential risks to humans can be minimized by observing good work practices and personal hygiene procedures generally recommended for petroleum products. See Section I for recommended protection and precautions.

Laboratory animal studies have shown that prolonged and repeated inhalation exposure to light hydrocarbon vapors in the same naphtha boiling range as this product can produce adverse kidney effects in male rats. However, these effects were not observed in similar studies with female rats and male and female mice and in limited studies with other animal species. Additionally, in a number of human studies, there was no clinical evidence of such effects at normal occupational levels. It is therefore highly unlikely that the kidney effects observed in male rats have significant implications for humans exposed at or below the recommended vapor limits in the workplace.

Product has a low order of acute oral and dermal toxicity, but minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

This product is judged to have an acute oral LD50 (rat) greater than 5 g/kg of body weight, and an acute dermal LD50 (rabbit) greater than 3.16 g/kg of body weight.

Inhalation of components of exhaust from burning, such as carbon monoxide, may cause death at high concentrations. Exposure to the exhaust of this fuel should be minimized.

PRE-EXISTING MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY EXPOSURE
Petroleum Solvents/Petroleum Hydrocarbons - Skin contact may aggravate an existing dermatitis.

F. PHYSICAL DATA

The following data are approximate or typical values and should not be used for precise design purposes.

BOILING RANGE
Approximately 160-300°C (320-572°F)

SPECIFIC GRAVITY (15.6 C/15.6 C)
0.7753 to 0.8398
ASTM D 1298

MOLECULAR WEIGHT
Approximately 180 average

VAPOR PRESSURE
Less than 5 mm Hg @ 20°C

VAPOR DENSITY (AIR = 1)
Greater than 5

PERCENT VOLATILE BY VOLUME
100

WORK PRACTICES / ENGINEERING CONTROLS
Keep containers closed when not in use. Do not store near heat, sparks, flame or strong oxidants.

In order to prevent fire or explosion hazards, use appropriate equipment.

Information on electrical equipment appropriate for use with this product may be found in the latest edition of the National Electrical Code (NFPA-70). This document is available from the National Fire Protection Association, Batterymarch Park, Quincy, Massachusetts 02269.

PERSONAL HYGIENE
Minimize breathing vapor, mist or fumes. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before re-use. Remove contaminated shoes and thoroughly clean before re-use; discard if oil-soaked. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

J. TRANSPORTATION AND OSHA RELATED LABEL INFORMATION

TRANSPORTATION INCIDENT INFORMATION
For further information relative to spills resulting from transportation incidents, refer to latest Department of Transportation Emergency Response Guidebook for Hazardous Materials Incidents, DOT P 5800.3.

DOT IDENTIFICATION NUMBER
Fuel, Aviation, Turbine Engine / Combustible Liquid / UN 1863

OSHA REQUIRED LABEL INFORMATION
In compliance with hazard and right-to-know requirements, the following OSHA Hazard Warnings should be found on a label, bill of lading or invoice accompanying this shipment.

DANGER!

COMBUSTIBLE

LONG-TERM, REPEATED EXPOSURE MAY
CAUSE SKIN CANCER

Note: Product label will contain additional non-OSHA related information.

The information and recommendations contained herein are, to the best of Exxon's knowledge and belief, accurate and reliable as of the date issued. Exxon does not warrant or guarantee their accuracy or reliability, and Exxon shall not be liable for any loss or damage arising out of the use thereof.

The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. If buyer repackages this product, legal council should be consulted to insure proper health, safety and other necessary information is included on the container.

The Environmental Information included under Section H hereof as well as the Hazardous Materials Identification System (HMIS) and National Fire Protection Association (NFPA) ratings have been included by Exxon Company, U.S.A. in order to provide additional health and hazard classification information. The ratings recommended are based upon the criteria supplied by the developers of these rating systems, together with Exxon's interpretation of the available data.

FOR ADDITIONAL INFORMATION ON HEALTH EFFECTS CONTACT:

FOR OTHER PRODUCT INFORMATION CONTACT:

AUG 30 1989
PURCHASING DEPT.

MATERIAL SAFETY DATA SHEET

Per 29 CFR 1910.1200

DATE PREPARED 3/6/89

SECTION I.

BRULIN & COMPANY, INC. P.O. BOX 270-B, INDIANAPOLIS, IN 46206-0270 (317) 923-3211, 1-800-428-7149

WEST COAST FACTORY
P. O. Box 698, San Pablo, CA 94806

SOUTHEASTERN FACTORY
104 N. 13th St., Tampa, FL 33602-4297

24 HOUR EMERGENCY NUMBER (317) 923-3233
CHEMTREC 1-800-424-9300

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IDENTITY (As Listed On Label) SOLVENT 3812

HMIS HAZARD RATINGS: Health: 2
Flammability: 1
Reactivity: 0

SECTION II. HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components (Specific Chemical Identity: Common Name(s)	CAS #	OSHA PEL	ACGIH TLV-TWA	OTHER LIMITS RECOMMENDED	PERCENT
* 1,1,1 Trichloroethane, Methyl Chloroform	71-55-6	350 PPM	350 PPM	STEL 450 PPM	95
1,2-Butylene Oxide	106-88-7	Not Estab.	Not Estab.	40 PPM (Supplier)	Proprietary
Diethylene Ether	123-91-1	25 PPM	25 PPM	None	Proprietary
Nitromethane	75-52-5	100 PPM	100 PPM	None	Proprietary

SECTION 313 SUPPLIER NOTIFICATION
The toxic chemical(s) listed above which are marked with an (*) are subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: 165 F
Vapor Pressure (mm Hg.): 100
Vapor Density (Air=1): 4.55
Solubility in Water: Negligible
Appearance and Odor: Colorless liquid, ether-like odor.

Specific Gravity (H2O = 1): 1.321
Melting Point: Less than 0 F
Evaporation Rate (n-butyl acetate =1): Approx. 6.0

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): None
Extinguishing Media: Water fog
Flammable Limits LEL 7.5 UEL 15.0
Special Fire Fighting Procedures: Self-contained, positive pressure respiratory equipment should be used by fire fighters.
Unusual Fire and Explosion Hazards: None

SECTION V - REACTIVITY DATA

Stability Unstable _____ Stable _X_ Conditions to Avoid: Open flames, welding arcs or other high temperature sources which induce thermal decomposition.

Incompatibility (Materials to Avoid): Water - long term contact can deplete stabilizers followed by slow hydrolysis producing corrosive acid. Avoid prolonged contact with, or storage in, aluminum or its alloys.

Hazardous Decomposition or Byproducts: Hydrogen chloride and very small amounts of phosgene and chlorine.

Hazardous Polymerization May Occur _____ May Not Occur _X_ Conditions to Avoid: None

CHEMICAL PRODUCTS FOR INDUSTRIAL USE

SAFETY DATA SHEET

TRADE NAME NYCO S.A. 66, avenue des Champs-Elysées 51, rue de Ponthieu 75008 PARIS	Presentation and rules of drafting complying to the standard NF T 01-100
	SPECIFIC RISKS NONE KNOWN
1 IDENTIFICATION 1.1 Commercial name 1.2 Supplier 1.3 Types of use (for other informations, see the technical sheet) 1.4 Other data	NYCOLUBE 11 B NYCO S.A. Telex: 650716 Tel.(1)42.25.95.19 Synthetic lubricating oil for board equipment.
2 CHEMICAL CONSTITUTION OF THE PRODUCT (components or impurities contributing to hazard) Other data	Aromatic amines ≤ 1 %
3 PHYSICAL PROPERTIES 3.1 Physical state 3.2 Characteristic temperatures 3.3 Solubility 3.4 pH 3.5 Vapour pressure 3.6 Density 3.7 Other data	Orange yellow clear liquid Pour point : - 60°C Negligible in water Not applicable Unknown 0.923 kg/dm^3 at 20°C RECEIVED SEP 22 1989 Personnel Departm
4 STORAGE AND HANDLING 4.1 Precautions during storage and handling 4.2 Materials for packaging or bottling 4.3 Hazardous reactions with : 4.4 Hazardous decomposition products 4.5 Individual protective measures 4.6 Special protective measures 4.7 Measures after spillage or leakage 4.8 Other recommendations	Store the well-closed drums under cover at ambient temperatures Steel None known CO by incomplete burning Wear gloves None Absorb the product with saw dust or other absorbent material ; collect in drums then refer to local legislation.

Name of product :

5 IGNITION AND EXPLOSION 5.1 Flash point 5.2 Self-ignition temperature 5.3 Special fire and explosion hazards 5.4 Extinguishing media 5.5 Special fire protective measures 5.6 Other recommendations	220°C according to ASTM D 92 Unknown None known CO_2 - Foams - Chemical powders Wear a mask /
6 TOXICOLOGICAL INFORMATIONS	The blend of aromatic amines contained in the product has a LD_{50} = 1 500 mg/kg (oral toxicity-rats).
7 FIRST AID PROCEDURES	Skin contact : wash with soap and water. Eye contact : flush with water, if necessary consult a specialist. Ingestion : in case of disconfort refer to a doctor.
8 ECOLOGICAL INFORMATIONS	No laboratory results ; the enclosed base is biodegradable at a rate > 50 %.
9 SPECIAL INFORMATIONS	Without

This sheet completes the technical sheet of use but it doesn't replace it. The information contained in this sheet are based on our knowledge of the product at the date ..... January 1989 .....
They are given quite sincerely. Moreover the attention of the users is drawn on the risks possibly taken when a product is used for other utilisations than those for which it is intended.

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FALCON

KAMAN BEARING & SUPPLY CORP
FIRESTONE DR
SYRACUSE, NY 13221

DOW CORNING CORPORATION
MATERIAL SAFETY DATA SHEET

MATL NAME: DOW CORNING(R) 1204 PRIME COAT
EMERGENCY TELEPHONE NO. (517) 496-5900

SECTION I - GENERAL INFORMATION

MANUFACTURERS NAME: DOW CORNING CORPORATION
ADDRESS: SOUTH SAGINAW ROAD, MIDLAND MI 48686

PROPER SHIPPING NAME(49CFR 172.101): FLAMMABLE LIQUID NOS
D.O.T. HAZARD NAME(49CFR 172.101): NAPHTHA, TOLUENE
D.O.T. ID NO(49CFR 172.101): UN 1993
D.O.T. HAZARD CLASS(49CFR 172.101): FLAMMABLE LIQUID
RCRA HAZARD CLASS(40CFR 261)(IF DISCARDED): IGNITABLE D001, F005
E.P.A. PRIORITY POLLUTANTS(40CFR 122.53): TOLUENE
NFPA = NATIONAL FIRE PROTECTION ASSOCIATION - 704
HEALTH (NFPA): 2 FLAMMABILITY (NFPA): 3 REACTIVITY (NFPA): 0
CAS NO: MIXTURE DOW CORNING WARNING CODE: F2,E4,S2,
GENERIC DESCRIPTION: SILOXANE IN SOLVENT I7, I19, O2, O11

SECTION II - HAZARDOUS INGREDIENT

VM&P NAPHTHA	% 65	TLV (UNITS): TWA 300 PPM
(PETROLEUM DISTILLATES)	%	TLV (UNITS): STEL 400 PPM
.	%	TLV (UNITS): OSHA PEL:
.	%	TLV (UNITS): TWA 500 PPM
TOLUENE (METHYL BENZENE)	% 19	TLV (UNITS): TWA 100 PPM
.	%	TLV (UNITS): STEL 150 PPM
.	%	TLV (UNITS): OSHA PEL:
.	%	TLV (UNITS): TWA 200 PPM
.	%	TLV (UNITS): CEIL. 300 PPM
.	%	TLV (UNITS): PEAK 500 PPM

ONLY THOSE INGREDIENTS LISTED IN THIS SECTION HAVE BEEN DETERMINED TO BE HAZARDOUS AS DEFINED IN 29 CFR 1910.1200. AN INGREDIENT MARKED WITH AN ASTERISK(*) IS ALSO LISTED IN 29 CFR 1910.1200(D) #4 AS KNOWN OR SUSPECTED CARCINOGEN.

COMMENT:(SEE SECTION XI FOR CONTINUATION OF HAZARDOUS INGREDIENTS.)

DOW CORNING CORPORATION
MATERIAL SAFETY DATA SHEET

MATL NAME: DOW CORNING(R) 1204 PRIME COAT

SECTION III - EFFECTS OF OVEREXPOSURE

EYES: DIRECT CONTACT IRRITATES. MAY BE SERIOUS WITH REDNESS, SWELLING, AND SOME CORNEAL INJURY LASTING SEVERAL DAYS TO A WEEK.

SKIN: A SINGLE RELATIVELY SHORT EXPOSURE CAUSES NO KNOWN ADVERSE EFFECT. SEVERAL REPEATED PROLONGED EXPOSURES (24 TO 48 HOURS) MAY IRRITATE.

INHALATION: SHORT VAPOR EXPOSURE MAY CAUSE DROWSINESS AND IRRITATE NOSE AND THROAT. VAPORS MAY INJURE BLOOD, LUNGS, LIVER, KIDNEYS, AND NERVOUS SYSTEM. DEGREE OF EFFECTS DEPENDS ON CONCENTRATION AND LENGTH OF EXPOSURE.

ORAL: SMALL AMOUNTS TRANSFERRED TO THE MOUTH BY FINGERS DURING USE, ETC., SHOULD NOT INJURE. SWALLOWING LARGE AMOUNTS MAY INJURE SLIGHTLY. INHALING LIQUID WHILE VOMITING CAN INJURE LUNGS SERIOUSLY.

COMMENT: 2-METHOXYETHANOL (METHYLCELLOSOLVE) MAY FORM UPON HYDROLYSIS. ANIMAL REPRODUCTIVE STUDIES HAVE SHOWN 2-METHOXYETHANOL IS ABLE TO CAUSE ANIMAL BIRTH DEFECTS.

SECTION IV - EMERGENCY AND FIRST AID PROCEDURES

EYES: IMMEDIATELY FLUSH WITH WATER. GET IMMEDIATE MEDICAL ATTENTION.

SKIN: IMMEDIATELY WIPE OFF AND FLUSH WITH WATER.

INHALATION: REMOVE TO FRESH AIR. GET IMMEDIATE MEDICAL ATTENTION IF ILL EFFECTS PERSIST.

ORAL: GET IMMEDIATE MEDICAL ATTENTION IF LARGE AMOUNTS SWALLOWED. DO NOT INDUCE VOMITING.

COMMENT: INHALING LIQUID WHILE VOMITING CAN INJURE LUNGS SERIOUSLY. IF VOMITING OCCURS, KEEP HEAD LOWER THAN HIPS TO PREVENT ASPIRATION OF LIQUID INTO LUNGS.

SECTION V - FIRE AND EXPLOSION DATA

FLASH POINT (METHOD USED): CLOSED CUP 59F/15C
AUTOIGNITION: NOT DETERMINED
FLAMMABILITY LIMITS IN AIR : LOWER: 1% UPPER: 7%

EXTINGUISHING MEDIA: WATER WATER FOG X CO2 X DRY CHEMICAL X FOAM X OTHER

SPECIAL FIRE FIGHTING PROCEDURES: SELF_CONTAINED BREATHING APPRARATUS AND PROTECTIVE CLOTHING SHOULD BE WORN IN FIGHTING FIRES INVOLVING CHEMICALS

UNUSUAL FIRE AND EXPLOSION HAZARDS: VAPORS ARE HEAVIER THAN AIR AND CAN TRAVEL ALONG GROUND TO REMOTE IGNITION SOURCES.

COMMENTS: FLAMMABILITY LIMITS ARE APPROXIMATE.

SECTION VI - PHYSICAL DATA

BOILING POINT(@ 760 MM HG): APPROX. 210F/99C
SPECIFIC GRAVITY (AT 77 DEG F/25 DEG C): 0.77
MELTING POINT: NOT APPLICABLE
VAPOR PRESSURE (AT 77 DEG F/25 DEG C): APPROX. 25 MM
VAPOR DENSITY (AIR = 1 AT 77 DEG F/25 DEG C): APPROX. 3.8
PERCENT VOLATILE BY VOLUME (%): APPROX. 95 BY WEIGHT
EVAPORATION RATE (ETHER = 1): LESS THAN 1
SOLUBILITY IN WATER(%): NOT DETERMINED
ODOR, APPEARANCE, COLOR: SOLVENT ODOR, LIQUID, LIGHT STRAW.

NOTE: THE ABOVE INFORMATION IS NOT INTENDED FOR USE IN PREPARING PRODUCT SPECIFICATIONS. CONTACT DOW CORNING BEFORE WRITING SPECIFICATIONS

DOW CORNING CORPORATION
MATERIAL SAFETY DATA SHEET

MATL NAME: DOW CORNING(R) 1204 PRIME COAT

SECTION VII - REACTIVITY DATA

STABILITY: STABLE

INCOMPATABILITY(MATERIAL TO AVOID): OXIDIZING MATERIAL CAN CAUSE A REACTION. WATER OR MOISTURE

CONDITIONS TO AVOID: EXPOSURE TO AIR UNTIL READY TO USE.

HAZARDOUS DECOMPOSITION PRODUCTS: METAL OXIDES, SILICON DIOXIDE, CARBON DIOXIDE AND TRACES OF INCOMPLETELY BURNED CARBON PRODUCTS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: NOT APPLICABLE.

COMMENTS: NONE

SECTION VIII - SPILL, LEAK AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: USE ABSORBENT MATERIAL TO COLLECT AND CONTAIN FOR SALVAGE OR DISPOSAL. REMOVE ALL SOURCES OF IGNITION AND WEAR PROPER PROTECTION EQUIPMENT.

PROTECTIVE EQUIPMENT:
EYES: USE CHEMICAL WORKER GOGGLES.

SKIN: AVOID CONTACT BY USING IMPERVIOUS PROTECTIVE CLOTHING: RUBBER OR PLASTIC GLOVES, APRONS, BOOTS, ETC. USE PROTECTIVE GLOVES AS A MINIMUM AND WASH IMMEDIATELY UPON ANY DETECTABLE CONTACT.

INHALATION: USE RESPIRATORY PROTECTION UNLESS LOCAL EXHAUST VENTILATION IS ADEQUATE OR AIR SAMPLING DATA SHOW EXPOSURES ARE WITHIN TLV AND PEL GUIDELINES.

WASTE DISPOSAL METHOD: DOW CORNING SUGGESTS THAT ALL LOCAL,STATE AND FEDERAL REGULATIONS CONCERNING HEALTH AND POLLUTION BE REVIEWED TO DETERMINE APPROVED DISPOSAL PROCEDURES. CONTACT DOW CORNING IF THERE ARE ANY DISPOSAL QUESTIONS.

D.O.T. (49CFR 171.8)/E.P.A. (40CFR 117) SPILL REPORTING INFORMATION
HAZARDOUS SUBSTANCE: TOLUENE, 1-BUTANOL REPORTABLE QUANTITY: (SEE BELOW)
CONCENTRATION OF HAZARDOUS SUBSTANCE: (SEE BELOW)
REPORTABLE QUANTITY OF PRODUCT: (SEE BELOW)

COMMENTS:	REP. QUANT.	CONC. OF HAZ. SUBST.	REP. QUANT. OF PROD.
TOLUENE	1,000 LBS.	19%	5,260 LBS.
1-BUTANOL ...	5,000 LBS.	2%	250,000 LBS.

1-BUTANOL IS ONLY EPA/CERCLA REPORTABLE; DOT EXEMPT BECAUSE <10% CONCENTRATION. PRODUCT IS AN OIL IN THE CONTEXT OF THE U.S. CLEAN WATER ACT. SPILLS TO U.S. SURFACE WATERS, OR TO WATERCOURSE OR SEWERS LEADING TO U.S. SURFACE WATERS THAT CAUSE A VISIBLE SHEEN MUST BE REPORTED TO THE NAT'L RESPONSE CENTER. RELEASES OF REPORTABLE QUANTITIES OF THE ABOVE HAZARDOUS SUBSTANCES BEYOND FACILITY BOUNDARIES MAY BE REPORTABLE TO STATE OR LOCAL EMERGENCY RESPONSE AUTH. UNDER TITLE III OF "SARA", THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986. SEE 40CFR PART 300, SUBPART I-EMERGENCY PLANNINGAND COMMUNITY RIGHT TO KNOW.

DOW CORNING CORPORATION
MATERIAL SAFETY DATA SHEET

MATL NAME: DOW CORNING(R) 1204 PRIME COAT

SECTION IX - ROUTINE HANDLING PRECAUTIONS

PROTECTIVE EQUIPMENT:
EYES: USE PROPER PROTECTION -- SAFETY GLASSES, AS A MINIMUM.

SKIN *: WASHING AT MEALTIME AND END OF SHIFT IS ADEQUATE.

INHALATION: USE RESPIRATORY PROTECTION UNLESS LOCAL EXHAUST VENTILATION IS ADEQUATE OR AIR SAMPLING DATA SHOW EXPOSURES ARE WITHIN TLV AND PEL GUIDELINES.

VENTILATION:
LOCAL EXHAUST: RECOMMENDED
MECHANICAL (GENERAL): RECOMMENDED

SUITABLE RESPIRATOR: ORGANIC VAPOR TYPE.

THESE PRECAUTIONS ARE FOR ROOM TEMPERATURE HANDLING, USE AT ELEVATED TEMPERATURE MAY REQUIRE ADDED PRECAUTIONS.
* GOOD PRACTICE REQUIRES THAT GROSS AMOUNT OF ANY CHEMICAL BE REMOVED FROM THE SKIN AS SOON AS PRACTICAL, ESPECIALLY BEFORE EATING OR SMOKING.
COMMENTS: AVOID BREATHING VAPORS AND EYE AND SKIN CONTACT. USE ONLY WITH ADEQUATE VENTILATION. DO NOT TAKE INTERNALLY.

SECTION X - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: KEEP CONTAINER CLOSED AND AWAY FROM HEAT, SPARKS, AND OPEN FLAME.

OTHER PRECAUTIONS: STATIC ELECTRICITY MAY ACCUMULATE AND CREATE A FIRE HAZARD. GROUND FIXED EQUIPMENT. BOND AND GROUND TRANSFER CONTAINERS AND EQUIPMENT.
COMMENTS: PROLONGED TOLUENE OVEREXPOSURE MAY INJURE BLOOD, LUNGS, LIVER, KIDNEYS, AND NERVOUS SYSTEM AND MAY AGGRAVATE EXISTING EYE, SKIN, AND RESPIRATORY DISORDERS.

SECTION XI - COMMENTS

HAZARDOUS INGREDIENTS (CONT.)

1-BUTANOL (N-BUTYL ALCOHOL)	%	2%	TLV (UNITS):	TLV-SKIN: 50 PPM
.	%		TLV (UNITS):	CEILING
.	%		TLV (UNITS):	OSHA PEL: 100 PPM TWA
2-METHOXYETHYLORTHOSILICATE	%	4%	TLV (UNITS):	TLV-SKIN: 5 PPM TWA
.	%		TLV (UNITS):	OSHA PEL-SKIN:
.	%		TLV (UNITS):	25 PPM TWA

(EXPOSURE LIMITS BASED ON 2-METHOXYETHANOL FORMED ON EXPOSURE TO WATER OR HUMID AIR.)

THESE DATA ARE OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE.

PREPARED BY: JACK L. SHENEBERGER
LAST REVISION DATE: JULY 20, 1987.
PREVIOUS REVISION DATE: SEPTEMBER 20, 1985.
DATE: JULY 21, 1987
(R) INDICATES REGISTERED OR TRADEMARK OF THE DOW CORNING CORPORATION.

Loctite Corporation

705 North Mountain Road
Newington, Connecticut 06111
Telephone: (203) 278-1280
Telex: 99348

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

LOCQUIC®

Product Name ACTIVATOR 707 (AEROSOL) Part No. 707-15
Product Type Activator Formula No. _____

II. COMPOSITION

Ingredients	% by Wt.	Hazard
1,1,1-Trichloroethane*	85	Toxic, TLV = 350 ppm
Aldehyde-Amine Condensate	15	Toxic, Irritant

*1,1,1-Trichloroethane (methyl chloroform) has been shown to cause reproductive affects and kidney and liver damage in experimental animals on prolonged inhalation. It is our best technical judgment that, with proper precautions, normal use of this product poses no such hazards.

III. CHEMICAL AND PHYSICAL PROPERTIES

Vapor Pressure ~100 mm at 70°F Specific Gravity 1.20 at 80°F
Vapor Density ~4.5 Boiling Point ~175°F
Solubility in Water Slight pH dna
Appearance Brown Liquid Odor Sharp

IV. TOXICITY AND HEALTH HAZARD DATA

Toxicity Moderate via ingestion.

TLV ~350 ppm

Est. Dermal LD 50 >2000 mg/kg
Symptoms of Overexposure Headache, nausea, dizziness. Narcosis at high concentration.

Emergency Treatment Procedures
Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.
Inhalation: Remove to fresh air. If symptoms persist, obtain medical attention.
Skin Contact: Flush with water.
Eye Contact: Flush thoroughly with water. Have eyes checked by physician.

Personal Protection
Eyes: Safety glasses or goggles recommended.
Skin: Rubber or plastic gloves recommended.
Ventilation: Provide adequate local ventilation to maintain vapor concentration below TLV.

V. FLAMMABILITY AND EXPLOSIVE PROPERTIES

Flash point None Method T.C.C.
Explosive Limits (% by volume in air) Lower dna % Upper dna %
Recommended Extinguishing Agents CO_2, Foam, Dry Chemical
Hazardous Products Formed by Fire or Thermal Decomposition: Toxic chlorides

Unusual Fire or Explosion Hazards: None
Compressed Gasses Name Carbon dioxide
Pressure at Room Temperature 50 psi

VI. REACTIVITY DATA

Stability [X] Stable [ ] Unstable
Hazardous Polymerization [ ] May Occur [X] Will Not Occur
Hazardous Decomposition Products (non-thermal)
None

Incompatibility May react violently with aluminum on prolonged contact.

VII. SPILL OR LEAK AND DISPOSAL PROCEDURES

Steps to be taken in case of spill or leak: Allow to evaporate with good ventilation. Soak up residue with inert absorbent.

Recommended methods of disposal: Follow EPA and local regulations for disposal of chlorinated hydrocarbons. Do not incinerate pressurized can.

VIII. STORAGE AND HANDLING PROCEDURES

Storage: Store below 110°F
Handling: Avoid prolonged breathing of vapor.

IX. SHIPPING REGULATIONS

Type or Class DOT ORM-D
IATA CLASS 2 - Compressed Gas
Proper Shipping Name DOT Consumer-type Commodity
IATA Aerosol, non-flammable, n.o.s., toxic

Prepared By: Martin Hauser
Title: Vice President - Environmental Health and Safety
Date: November 1, 1985

Falco -

Loctite Corporation

705 North Mountain Road
Newington, Connecticut 06111
Telephone: (203) 278-1280
Telex: 99348

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

SPEEDBONDER™

Product Name 325 STRUCTURAL ADHESIVE Part No. 325

Product Type Anaerobic Formula No. _____

II. COMPOSITION

Ingredients	% by Wt.	Hazard
Polyurethane Methacrylate Resins	45-50	See Section IV.
Polyglycol Dimethacrylates	30-35	
Acrylic Acid***	5	
Hydroxyalkyl Methacrylate	5-10	
Cumene Hydroperoxide*	1-2	
t-Butyl perbenzoate*	1-2	
Saccharin**	<1	
Methacrylated Silane	<1	

*In single tests, cumene hydroperoxide and t-butyl perbenzoate have been shown to cause tumors in experimental animals on high dose exposure. **Saccharin has been shown to cause tumors in experimental animals when fed in large amounts for prolonged periods. ***Pure acrylic acid has been shown to cause reproductive effects in experimental animals when injected into the peritoneal cavity in high doses. In light of the low concentration of these components in the product, it is our best technical judgment that normal use of this product poses no such hazards. These warnings are present only to comply with OSHA regulations.

III. CHEMICAL AND PHYSICAL PROPERTIES

Vapor Pressure < 10 mm at 80°F Specific Gravity 1.11 at 80°F

Vapor Density Unknown Boiling Point > 300°F

Solubility in Water Slight pH dna

Appearance Yellow Liquid Odor Sharp, Irritating

IV. TOXICITY AND HEALTH HAZARD DATA

Toxicity Eye Irritant

Oral LD 50 >5000 mg/kg TLV Does not apply

Dermal LD 50 >2000 mg/kg

Symptoms of Overexposure May cause dermatitis on prolonged contact in sensitive individuals.

Emergency Treatment Procedures

Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention

Inhalation: Does not apply.

Skin Contact: Flush with water.

Eye Contact: Flush at least 15 minutes with water. Obtain medical attention.

Personal Protection

Eyes: Safety glasses or goggles mandatory.

Skin: Rubber or plastic gloves recommended.

Ventilation: Not normally necessary.

Loctite Corporation

705 North Mountain Road
Newington, Connecticut 06111
Telephone: (203) 278-1280
Telex: 275207

SARA TITLE III

SPEEDBONDER™ 325 STRUCTURAL ADHESIVE 325

The ingredients listed below are listed in Section 313 of Title III of the Superfund Amendments and Reauthorization Act.

INGREDIENT	CAS NUMBER	AMOUNT
Acrylic Acid	79-10-7	5
Cumene Hydroperoxide	80-15-9	1-2
Saccharin	81-07-2	<1

January 1, 1989

Stephen Repetto

Stephen Repetto

Research Chemist, Environmental Health & Safety

SR/rbh

EXXON COMPANY, U.S.A.
A DIVISION OF EXXON CORPORATION

DATE ISSUED: 06/01/89
SUPERSEDES DATE: 05/19/89

MATERIAL SAFETY DATA SHEET

EXXON COMPANY, U.S.A. P.O. BOX 2180 HOUSTON, TX 77252-2180

A. IDENTIFICATION AND EMERGENCY INFORMATION

PRODUCT NAME
AVIATION GASOLINE 100 LL

PRODUCT CODE
113000 - 00039

CHEMICAL NAME
Aviation Gasoline

CAS NUMBER
Complex Mixture
CAS Number not applicable

PRODUCT APPEARANCE AND ODOR
Clear blue liquid
Gasoline hydrocarbon odor

MEDICAL EMERGENCY TELEPHONE NUMBER
(713) 656-3424

B. COMPONENTS AND HAZARD INFORMATION

COMPONENTS	CAS NO. OF COMPONENTS	APPROXIMATE CONCENTRATION

Product is a variable complex mixture of components, principally hydrocarbons, blended to performance, rather than chemical, specifications.

See Section E for Health and Hazard Information.

See Section H for additional Environmental Information.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)

Health	Flammability	Reactivity	BASIS
1	3	0	Recommended by Exxon

EXPOSURE LIMIT FOR TOTAL PRODUCT 100 ppm (300 mg/m3) for an 8-hour workday	**BASIS** Recommended by Exxon. The American Conference of Governmental Industrial Hygienists (ACGIH) lists Threshold Limit Value (TLV) of 300 ppm (900 mg/m3) for an 8-hour workday; 500 ppm STEL.
The airborne benzene level shall not exceed 1 ppm for an 8-hour workday or 5 ppm for any 15 minute period.	OSHA Regulation 29 CFR 1910.1028

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C. PRIMARY ROUTES OF ENTRY AND EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT
If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call a physician.

SKIN
In case of skin contact, remove any contaminated clothing and wash skin thoroughly with soap and water.

INHALATION
If overcome by vapor, remove from exposure and call a physician immediately. If breathing is irregular or has stopped, start resuscitation, administer oxygen, if available.

industrial references pertaining to cleaning, repairing, welding, or other contemplated operations.

E. HEALTH AND HAZARD INFORMATION

VARIABILITY AMONG INDIVIDUALS
Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.

EFFECTS OF OVEREXPOSURE (Signs and symptoms of exposure)
High vapor concentrations (greater than approximately 1000 ppm) are irritating to the eyes and the respiratory tract, and may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death.

Prolonged or repeated liquid contact with the skin will dry and defat the skin, leading to possible irritation and dermatitis.

NATURE OF HAZARD AND TOXICITY INFORMATION
Prolonged or repeated skin contact with this product tends to remove skin oils, possibly leading to irritation and dermatitis; however, based on human experience and available toxicological data, this product is judged to be neither a "corrosive" nor an "irritant" by OSHA criteria.

Product contacting the eyes may cause eye irritation.

This product may contain up to a maximum of 4.9 weight percent benzene, CAS No. 71-43-2, as a natural constituent of various gasoline blend components. Benzene can cause anemia and other blood diseases, including leukemia (cancer of the blood-forming system), after prolonged or repeated exposures at high concentrations (e.g., 50-500 ppm). It has also caused fetal defects in tests on laboratory animals.

Contains light hydrocarbon components. Lifetime studies by the American Petroleum Institute have shown that kidney damage and kidney cancer can occur in male rats after prolonged inhalation exposures at elevated concentrations of total gasoline. Kidneys of mice and female rats were unaffected. The implication of these data for humans has not been determined, particularly since most human exposures are to light components, not to total gasoline. Certain components, such as normal hexane, may also affect the nervous system at high concentrations (e.g., 1000-1500 ppm). Typically, n-hexane represents 1 to 3% of gasoline. May contain a combined concentration of toluene, CAS No. 108-88-3, and xylene, CAS No. 1330-20-7, ranging from approximately 5 to 50%.

Contains organic lead alkyl additives.

Product has a low order of acute oral and dermal toxicity, but minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

This product is judged to have an acute oral LD50 (rat) greater than 5 g/kg of body weight, and an acute dermal LD50 (rabbit) greater than 3.16 g/kg of body weight.

PRE-EXISTING MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY EXPOSURE
Benzene - Individuals with liver disease may be more susceptible to toxic effects.

Petroleum Solvents/Petroleum Hydrocarbons - Skin contact may aggravate an existing dermatitis.

Lead - To avoid further damage, those with kidney, neurological or blood disease should avoid exposure. Exposure during pregnancy should be avoided. Exposure may aggravate or precipitate an attack of gout.

Hexane - Individuals with neurological disease should avoid exposure.

F. PHYSICAL DATA

The following data are approximate or typical values and should not be used for precise

RESPIRATORY PROTECTION
Use supplied-air respiratory protection in confined or enclosed spaces, if needed.

PROTECTIVE GLOVES
Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

EYE PROTECTION
Use splash goggles or face shield when eye contact may occur.

OTHER PROTECTIVE EQUIPMENT
Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing, which could result in prolonged or repeated skin contact.

WORK PRACTICES / ENGINEERING CONTROLS
Keep containers closed when not in use. Do not store near heat, sparks, flame or strong oxidants. Adequate ventilation required sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. Tanks that have been in leaded gasoline service may have lead-containing residue. Special precautions needed in cleaning. See American Petroleum Institute publications 2013, 2015 and 2015A. No smoking, flame or other ignition sources.

To minimize fire or explosion risk from static charge accumulation and discharge, effectively ground product transfer system in accordance with the National Fire Protection Association standard for petroleum products.

For use as an aviation gasoline engine fuel only. Do not use as a cleaning solvent, or thinner, or for other non-aviation gasoline engine fuel uses. Do not siphon by mouth. Minute amounts of liquid gasoline aspirated into the lungs may cause potentially fatal chemical pneumonitis.

In order to prevent fire or explosion hazards, use appropriate equipment.

Information on electrical equipment appropriate for use with this product may be found in the latest edition of the National Electrical Code (NFPA-70). This document is available from the National Fire Protection Association, Batterymarch Park, Quincy, Massachusetts 02269.

PERSONAL HYGIENE
Minimize breathing vapor or mist. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before re-use. Remove contaminated shoes and thoroughly clean and dry before re-use. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

J. TRANSPORTATION AND OSHA RELATED LABEL INFORMATION

TRANSPORTATION INCIDENT INFORMATION
For further information relative to spills resulting from transportation incidents, refer to latest Department of Transportation Emergency Response Guidebook for Hazardous Materials Incidents, DOT P 5800.3.

DOT IDENTIFICATION NUMBER
Gasoline / Flammable Liquid / UN 1203

OSHA REQUIRED LABEL INFORMATION
In compliance with hazard and right-to-know requirements, the following OSHA Hazard Warnings should be found on a label, bill of lading or invoice accompanying this shipment.

DANGER!

EXTREMELY FLAMMABLE

LONG-TERM, REPEATED EXPOSURE MAY CAUSE
CANCER, BLOOD, KIDNEY AND
NERVOUS SYSTEM DAMAGE

CONTAINS: BENZENE

Note: Product label will contain additional non-OSHA related information.

EXXON COMPANY, U.S.A.
A DIVISION OF EXXON CORPORATION

DATE ISSUED: 06/01/89
SUPERSEDES DATE: 05/19/89

MATERIAL SAFETY DATA SHEET

EXXON COMPANY, U.S.A. P.O. BOX 2180 HOUSTON, TX 77252-2180

A. IDENTIFICATION AND EMERGENCY INFORMATION

PRODUCT NAME
AVIATION GASOLINE 100 LL

PRODUCT CODE
113000 - 00039

CHEMICAL NAME
Aviation Gasoline

CAS NUMBER
Complex Mixture
CAS Number not applicable

PRODUCT APPEARANCE AND ODOR
Clear blue liquid
Gasoline hydrocarbon odor

MEDICAL EMERGENCY TELEPHONE NUMBER
(713) 656-3424

B. COMPONENTS AND HAZARD INFORMATION

COMPONENTS	CAS NO. OF COMPONENTS	APPROXIMATE CONCENTRATION

Product is a variable complex mixture of components, principally hydrocarbons, blended to performance, rather than chemical, specifications.

See Section E for Health and Hazard Information.

See Section H for additional Environmental Information.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)

Health	Flammability	Reactivity	BASIS
1	3	0	Recommended by Exxon

EXPOSURE LIMIT FOR TOTAL PRODUCT	BASIS
100 ppm (300 mg/m3) for an 8-hour workday	Recommended by Exxon. The American Conference of Governmental Industrial Hygienists (ACGIH) lists Threshold Limit Value (TLV) of 300 ppm (900 mg/m3) for an 8-hour workday; 500 ppm STEL.
The airborne benzene level shall not exceed 1 ppm for an 8-hour workday or 5 ppm for any 15 minute period.	OSHA Regulation 29 CFR 1910.1028

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C. PRIMARY ROUTES OF ENTRY AND EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT
If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call a physician.

SKIN
In case of skin contact, remove any contaminated clothing and wash skin thoroughly with soap and water.

INHALATION
If overcome by vapor, remove from exposure and call a physician immediately. If breathing is irregular or has stopped, start resuscitation, administer oxygen, if available.

industrial references pertaining to cleaning, repairing, welding, or other contemplated operations.

E. HEALTH AND HAZARD INFORMATION

VARIABILITY AMONG INDIVIDUALS
Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.

EFFECTS OF OVEREXPOSURE (Signs and symptoms of exposure)
High vapor concentrations (greater than approximately 1000 ppm) are irritating to the eyes and the respiratory tract, and may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death.

Prolonged or repeated liquid contact with the skin will dry and defat the skin, leading to possible irritation and dermatitis.

NATURE OF HAZARD AND TOXICITY INFORMATION
Prolonged or repeated skin contact with this product tends to remove skin oils, possibly leading to irritation and dermatitis; however, based on human experience and available toxicological data, this product is judged to be neither a "corrosive" nor an "irritant" by OSHA criteria.

Product contacting the eyes may cause eye irritation.

This product may contain up to a maximum of 4.9 weight percent benzene, CAS No. 71-43-2, as a natural constituent of various gasoline blend components. Benzene can cause anemia and other blood diseases, including leukemia (cancer of the blood-forming system), after prolonged or repeated exposures at high concentrations (e.g., 50-500 ppm). It has also caused fetal defects in tests on laboratory animals.

Contains light hydrocarbon components. Lifetime studies by the American Petroleum Institute have shown that kidney damage and kidney cancer can occur in male rats after prolonged inhalation exposures at elevated concentrations of total gasoline. Kidneys of mice and female rats were unaffected. The implication of these data for humans has not been determined, particularly since most human exposures are to light components, not to total gasoline. Certain components, such as normal hexane, may also affect the nervous system at high concentrations (e.g., 1000-1500 ppm). Typically, n-hexane represents 1 to 3% of gasoline. May contain a combined concentration of toluene, CAS No. 108-88-3, and xylene, CAS No. 1330-20-7, ranging from approximately 5 to 50%.

Contains organic lead alkyl additives.

Product has a low order of acute oral and dermal toxicity, but minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

This product is judged to have an acute oral LD50 (rat) greater than 5 g/kg of body weight, and an acute dermal LD50 (rabbit) greater than 3.16 g/kg of body weight.

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Benzene - Individuals with liver disease may be more susceptible to toxic effects.

Petroleum Solvents/Petroleum Hydrocarbons - Skin contact may aggravate an existing dermatitis.

Lead - To avoid further damage, those with kidney, neurological or blood disease should avoid exposure. Exposure during pregnancy should be avoided. Exposure may aggravate or precipitate an attack of gout.

Hexane - Individuals with neurological disease should avoid exposure.

F. PHYSICAL DATA

The following data are approximate or typical values and should not be used for precise

RESPIRATORY PROTECTION
Use supplied-air respiratory protection in confined or enclosed spaces, if needed.

PROTECTIVE GLOVES
Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

EYE PROTECTION
Use splash goggles or face shield when eye contact may occur.

OTHER PROTECTIVE EQUIPMENT
Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing, which could result in prolonged or repeated skin contact.

WORK PRACTICES / ENGINEERING CONTROLS
Keep containers closed when not in use. Do not store near heat, sparks, flame or strong oxidants. Adequate ventilation required sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. Tanks that have been in leaded gasoline service may have lead-containing residue. Special precautions needed in cleaning. See American Petroleum Institute publications 2013, 2015 and 2015A. No smoking, flame or other ignition sources.

To minimize fire or explosion risk from static charge accumulation and discharge, effectively ground product transfer system in accordance with the National Fire Protection Association standard for petroleum products.

For use as an aviation gasoline engine fuel only. Do not use as a cleaning solvent, or thinner, or for other non-aviation gasoline engine fuel uses. Do not siphon by mouth. Minute amounts of liquid gasoline aspirated into the lungs may cause potentially fatal chemical pneumonitis.

In order to prevent fire or explosion hazards, use appropriate equipment.

Information on electrical equipment appropriate for use with this product may be found in the latest edition of the National Electrical Code (NFPA-70). This document is available from the National Fire Protection Association, Batterymarch Park, Quincy, Massachusetts 02269.

PERSONAL HYGIENE
Minimize breathing vapor or mist. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before re-use. Remove contaminated shoes and thoroughly clean and dry before re-use. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

J. TRANSPORTATION AND OSHA RELATED LABEL INFORMATION

TRANSPORTATION INCIDENT INFORMATION
For further information relative to spills resulting from transportation incidents, refer to latest Department of Transportation Emergency Response Guidebook for Hazardous Materials Incidents, DOT P 5800.3.

DOT IDENTIFICATION NUMBER
Gasoline / Flammable Liquid / UN 1203

OSHA REQUIRED LABEL INFORMATION
In compliance with hazard and right-to-know requirements, the following OSHA Hazard Warnings should be found on a label, bill of lading or invoice accompanying this shipment.

DANGER!

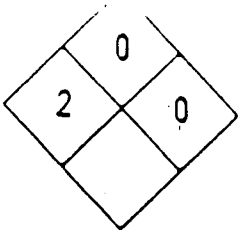
EXTREMELY FLAMMABLE

LONG-TERM, REPEATED EXPOSURE MAY CAUSE
CANCER, BLOOD, KIDNEY AND
NERVOUS SYSTEM DAMAGE

CONTAINS: BENZENE

Note: Product label will contain additional non-OSHA related information.

Parker-Amchem
HENKEL CORPORATION
32100 Stephenson Highway
Madison Heights, Michigan 48071



MATERIAL SAFETY DATA SHEET

CUSTOMER #

PRODUCT TRADE NAME	ALODINE 1201
DOT PROPER SHIPPING NAME	Not DOT regulated
DOT HAZARD CLASSIFICATION	Not applicable.
TECHNICAL CONTACT (NAME)	Product Acceptance Office
TELEPHONE NUMBER	(313) 583-9300 EMERGENCY NUMBER 1-517-263-9430

1 HAZARDOUS INGREDIENTS

MATERIAL	CAS NO.	CONTENTS (% WT/WT)	HAZARD	TLV/PEL
Chromic Acid	1333-82-0	Approx. 1	Carcinogen, NTP, IARC; Corrosive	0.05 mg/m³ 0.1 mg/m³
Potassium Ferricyanide	13746-66-2	<1	Irritant	None
Hydrofluoric Acid	7664-39-3	<1	Corrosive	2.5 mg/m³ as F 2.5 mg/m³ as F

This product contains a chemical (+) subject to the reporting requirements of Section 313, Title III of SARA, Part 372.

2 PHYSICAL DATA

APPEARANCE	Amber liquid		
SOLUBILITY IN WATER	Complete		
ODOR	None	pH of CONCENTRATE	<2
SPECIFIC GRAVITY	1.00-1.02	BOILING POINT, °F.	>212 F

OTHER: Freezing Point: 32 F

3 FIRE & EXPLOSION DATA

FLASH POINT None

TEST METHOD N/A

EXTINGUISHING MEDIA As required to extinguish surrounding fire.

UNUSUAL FIRE OR EXPLOSION HAZARDS

Clothing contaminated with the chemical is dangerously flammable. Immediately remove and rinse thoroughly with water. Contact with combustible material may cause fire. Presents no hazard in liquid form, however chemical contains strong oxidizers which may supply oxygen when dry.

SPECIAL FIRE FIGHTING PROCEDURES

Wear positive pressure self-contained breathing apparatus and full protective clothing.

4 REACTIVITY DATA

STABLE ☒ UNSTABLE ☐

CONDITIONS TO AVOID

Not applicable.

INCOMPATIBLE MATERIALS

Keep separate from alkalies.
Organic materials, paint thinners or reducing agents.

HAZARDOUS POLYMERIZATION WILL OCCUR ☐
WILL NOT OCCUR ☒

CONDITIONS TO AVOID

Not applicable.

HAZARDOUS DECOMPOSITION PRODUCTS

Hydrogen cyanide

5 HEALTH HAZARD DATA

EYES: Contact with eyes can cause burn and eye damage.

SKIN: Contact can cause severe burns. Chromic acid may be absorbed through skin, especially if skin is damaged. Fatal kidney damage was reported in a person who evidently absorbed chromium trioxide into the body.

INGESTION: Can result in gastrointestinal damage; burns of the digestive tract.

INHALATION: Inhalation of mist can cause injury (burns) to the respiratory tract.

POSSIBLE CANCER HAZARD: There is laboratory evidence that aqueous sodium dichromate administered directly into the lung, at the highest tolerated dose, over the lifetime of rats, causes a significantly increased incidence of lung cancer. It is expected that if chromic acid was tested in the manner as aqueous sodium dichromate, it would give similar response. There is sufficient evidence for the carcinogenicity of chromium and certain chromium compounds both in humans and experimental animals.
Reference: NTP (National Toxicology Program), Annual Report on Carcinogens, 1983.
IARC (International Agency for Research on Cancer), Annual Report, 1982.

CHRONIC: Contains fluorides. Exposure to fluorides over years may cause fluorosis.

CHRONIC: Prolonged or repeated skin contact may cause "chrome sores". Long-term exposure can cause liver damage, kidney damage and dermatitis. Prolonged or repeated inhalation of mist may cause ulceration and performation of the nasal septum.

Pre-existing Medical Conditions Generally Aggravated by Exposure: No information available.

6 FIRST AID RECOMMENDATIONS

EYES: Immediately flush eyes in a directed stream of water for at least 15 minutes while forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. GET MEDICAL ATTENTION.

SKIN: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing. Soak the affected area for one hour in an iced solution (0.13%) of zephrin chloride (30 cc of 17% concentrate per gallon of iced distilled water). GET MEDICAL ATTENTION.

INGESTION: Drink large quantities of water. CORROSIVE. DO NOT INDUCE VOMITING. If vomiting occurs, drink more water. GET MEDICAL ATTENTION. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air and remove contaminated clothing. If breathing is difficult, administer oxygen. If respiration stops, give mouth to mouth resuscitation. GET MEDICAL ATTENTION.

7 SPILL PROCEDURES & WASTE DISPOSAL

SPILL PROCEDURES

Wear protective clothing.
Dike to contain spill.
Absorb on non-combustible material (vermiculite, sand, earth) and store in suitable drum.
Flush the contaminated area with water.

WASTE TREATMENT

Contact a licensed disposal agent.
Dispose of in compliance with all applicable federal, state and local regulations.
This chemical contains chromium compounds and fluoride compounds Waste treatment and neutralization may be required prior to discharge to a sewer.

8 PERSONAL PROTECTION

VENTILATION REQUIREMENTS	GENERAL AREA EXHAUST	☐
	LOCAL EXHAUST	☒
	NO EXHAUST NECESSARY	☐

PERSONAL PROTECTIVE EQUIPMENT

EYE PROTECTION	Chemical goggles or face shield.
SKIN PROTECTION	Neoprene or polyvinyl gloves and appropriate protect clothing.
RESPIRATORY PROTECTION	Provide mist protection where applicable. Use NIOSH or MSHA approved respirators.
OTHER REQUIRED EQUIPMENT	Eye wash facility and emergency shower should be in close proximity.

9 SPECIAL PRECAUTIONS & STORAGE

DO NOT GET IN EYES, ON SKIN OR ON CLOTHING.

Clothing contaminated with contents of this package is DANGEROUSLY FLAMMABLE. Immediately remove contaminated clothing and rinse thoroughly with water.

Contact with combustible material may cause fire.

Wash thoroughly after handling.

For industrial use only.

PREPARED BY Product Acceptance Office DATE 11/11/88

TITLE

CHEMICAL EMERGENCY TELEPHONE 1-800-424-9300

Conditions: although the information presented herein is to the best of our knowledge true and accurate, no warr or guarantee, express or implied, whether of merchantability, fitness for any particular purpose or otherwise, is regarding the information or the performance of any product. In each case we strongly recommend that purchasers fore using any product in full production make their individual tests to verify to their own satisfaction whethe product is of acceptable quality and is suited for their specific purposes under their own manufacturing conditi Further, no representative of ours has any authority to waive or change the foregoing provisions. However, subjec such provisions, our technical personnel are available to assist purchasers in modifying our products for use co tent with their needs and conditions in existence in their business. Nothing contained herein shall be construe a recommendation to use a product in infringement of any existing patent, and we assume no responsibility or lia ity for operations which do infringe any such patents. We assume no liability for incidental, consequential or di damages of any kind, no matter what the cause, including negligence. The above includes confidential and proprie information of Parker+Amchem and is furnished to you for your use solely on products or processes supplied by us you and should not be otherwise used or disclosed.

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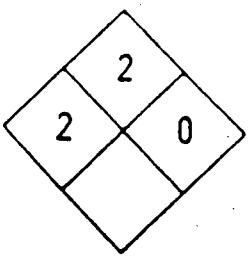
HENKEL CORPORATION
32100 Stephenson Highway
Madison Heights, Michigan 48071



MATERIAL SAFETY DATA SHEET

CUSTOMER #

PRODUCT TRADE NAME	DEOXIDINE 605
DOT PROPER SHIPPING NAME	Compounds, cleaning liquid, NA1760
DOT HAZARD CLASSIFICATION	Corrosive
TECHNICAL CONTACT (NAME)	Product Acceptance Office
TELEPHONE NUMBER	(313) 583-9300 EMERGENCY NUMBER 1-517-263-9430

1 HAZARDOUS INGREDIENTS

MATERIAL	CAS NO.	CONTENTS (% WT/WT)	HAZARD	TLV/PEL
Phosphoric Acid	7664-38-2	5-10	Corrosive	1mg/m³
Ethylene Glycol Monobutyl Ether	111-76-2	10-15	Irritant	1mg/m³ 120mg/m³ skin 120mg/m³ skin

This product contains a chemical subject to the reporting requirements of Section 313, Title III of SARA, Part 372.

2 PHYSICAL DATA

APPEARANCE	Clear solution		
SOLUBILITY IN WATER	Complete		
ODOR	Solvent	pH of CONCENTRATE	<1
SPECIFIC GRAVITY	1.02 - 1.04	BOILING POINT, °F.	>212° F
OTHER:	Freezing point: 28° F		

3 FIRE & EXPLOSION DATA

FLASH POINT 150° F

TEST METHOD TCC

EXTINGUISHING MEDIA Carbon dioxide, water, foam or dry chemical.

UNUSUAL FIRE OR EXPLOSION HAZARDS

None known

SPECIAL FIRE FIGHTING PROCEDURES

Wear positive pressure self-contained breathing apparatus and full protective clothing.

4 REACTIVITY DATA

STABLE [X] UNSTABLE [ ]

CONDITIONS TO AVOID

Not applicable

INCOMPATIBLE MATERIALS

Keep separate from alkalies.
Keep separate from strong oxidizing agents.

HAZARDOUS POLYMERIZATION WILL OCCUR [ ]
WILL NOT OCCUR [X]

CONDITIONS TO AVOID

Not applicable

HAZARDOUS DECOMPOSITION PRODUCTS

Oxides of phosphorus and carbon

5 HEALTH HAZARD DATA

EYES: Contact with eyes can cause burn and eye damage.

SKIN: Contact will irritate the skin and may produce dermatitis.

INGESTION: Can result in gastrointestinal damage; burns of the digestive tract.

INHALATION: Inhalation of mist can cause injury (burns) to the respiratory tract.

No component of this chemical is listed in the NTP Annual Report on Carcinogens, IARC Monographs or is regulated as a carcinogen by OSHA.

CHRONIC: Prolonged exposure to excessive concentrations may result in kidney, lung, liver and blood effects.

SKIN ABSORPTION: A single, prolonged exposure to ethylene glycol butyl ether may result in the material being absorbed in amounts which could cause death. Excessive exposure may cause hemolysis thereby impairing the bloods's ability to transport oxygen. The LD50 for skin absorption in rabbits is 200mg/kg.--Repeated minor exposure may result in absorption of harmful amounts.

Medical Conditions Generally Aggravated by Exposure: Pre-existing eye, skin and respiratory disorders.

6 FIRST AID RECOMMENDATIONS

EYES: Immediately flush eyes in a directed stream of water for at least 15 minutes while forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. GET MEDICAL ATTENTION.

SKIN: Immediately remove contaminated clothing and shoes. Flush skin thoroughly with water for at least 15 minutes. If irritation persists, GET MEDICAL ATTENTION. Wash contaminated clothing before reuse. Discard non-rubber shoes.

INGESTION: Drink large quantities of water. CORROSIVE. DO NOT INDUCE VOMITING. If vomiting occurs, drink more water. GET MEDICAL ATTENTION. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air and remove contaminated clothing. If breathing is difficult, administer oxygen. If respiration stops, give mouth to mouth resuscitation. GET MEDICAL ATTENTION.

7 SPILL PROCEDURES & WASTE DISPOSAL

SPILL PROCEDURES

Wear protective clothing.
Dike to contain spill.
Absorb on non-combustible material (vermiculite, sand, earth) and store in suitable drum.
Flush the contaminated area with water.

WASTE TREATMENT

Contact a licensed disposal agent.
Dispose of in compliance with all applicable federal, state and local regulations.

8 PERSONAL PROTECTION

VENTILATION REQUIREMENTS	GENERAL AREA EXHAUST	☐
	LOCAL EXHAUST	☒
	NO EXHAUST NECESSARY	☐

PERSONAL PROTECTIVE EQUIPMENT

EYE PROTECTION	Chemical goggles or face shield.
SKIN PROTECTION	Neoprene or polyvinyl gloves and appropriate protecti clothing.
RESPIRATORY PROTECTION	Wear MSHA/NIOSH approved positive pressure self-conta breathing apparatus and full protective clothing for emergencies.
OTHER REQUIRED EQUIPMENT	Eye wash facility and emergency shower should be in close proximity.

9 SPECIAL PRECAUTIONS & STORAGE

DO NOT GET IN EYES, ON SKIN OR ON CLOTHING.

AVOID PROLONGED OR REPEATED BREATHING OF VAPOR.

For industrial use only.

Wash thoroughly after handling.

PREPARED BY Product Acceptance Office DATE 10/03/88

TITLE

000921 MINERAL SPIRITS NONEXEMPT PAGE: 1

THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (THE HAZARD COMMUNICATION STANDARD)

PRODUCT NAME: MINERAL SPIRITS NONEXEMPT
CAS NUMBER: 8052 41 3

FALCON JET CORPORATION
TETERBORO AIRPORT
TETERBORO NJ 07608

ATTN: PLANT MGR./SAFETY DIR.

05 50 040 3141840-
DATA SHEET NO: 0000589-003
LATEST REVISION DATE: 03/86-86063
PRODUCT: 2516000
INVOICE: 913182
INVOICE DATE: 08/17/87
TO: FALCON JET CORPORATION
113 BILLY DIEHL ROAD
TETERBORO NJ 07608

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SECTION I-PRODUCT IDENTIFICATION

GENERAL OR GENERIC ID: ALIPHATIC HYDROCARBON

DOT HAZARD CLASSIFICATION: COMBUSTIBLE (173.115)

SECTION II-COMPONENTS

IF PRESENT, IARC, NTP AND OSHA CARCINOGENS ARE IDENTIFIED IN THIS SECTION
SEE DEFINITION PAGE FOR CLARIFICATION

INGREDIENT	% (BY WT)	NOTE
ALIPHATIC PETROLEUM DISTILLATES CAS #: 8052-41-3 PEL: 500 PPM	100 TLV: 100 PPM	(1)

(1): NIOSH RECOMMENDS A LIMIT OF 350 MG/CUM - 8 HOUR TIME WEIGHTED AVERAGE, 1800 MG/CUM AS DETERMINED BY A 15 MINUTE SAMPLE.

THIS COMPONENT MAY CONTAIN 3.5% PSEUDOCUMENE(1,2,4 OR 1,2,5-TRIMETHYLBENZENE) CAS# 95-63-6 AND 0.4% MESITYLENE(1,3,5-TRIMETHYLBENZENE) CAS# 108-67-8.

SECTION III-PHYSICAL DATA

PROPERTY	REFINEMENT	MEASUREMENT
BOILING POINT	FOR PRODUCT	300.00 DEG F (148.88 DEG C) @ 760.00 MMHG
VAPOR PRESSURE	FOR PRODUCT	2.00 MMHG @ 68.00 DEG F (20.00 DEG C)
SPECIFIC VAPOR DENSITY	AIR = 1	4.9
SPECIFIC GRAVITY		.780 @ 60.00 DEG F (15.55 DEG C)
PERCENT VOLATILES		100.00%
EVAPORATION RATE	(ETHER = 1)	70.00

SECTION IV-FIRE AND EXPLOSION INFORMATION

FLASH POINT 100.0 DEG F
(37.8 DEG C)

EXPLOSIVE LIMIT (PRODUCT) LOWER - 1.0%

EXTINGUISHING MEDIA: REGULAR FOAM OR CARBON DIOXIDE OR DRY CHEMICAL

HAZARDOUS DECOMPOSITION PRODUCTS: MAY FORM TOXIC MATERIALS:, CARBON DIOXIDE AND CARBON MONOXIDE, VARIOUS HYDROCARBONS, ETC.

FIREFIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE WHEN FIGHTING FIRES.

SPECIAL FIRE & EXPLOSION HAZARDS: VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND OR BE MOVED BY VENTILATION AND IGNITED BY HEAT, PILOT LIGHTS, OTHER FLAMES AND IGNITION SOURCES AT LOCATIONS DISTANT FROM MATERIAL HANDLING POINT.

NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY.

NFPA CODES: HEALTH- 0 FLAMMABILITY- 2 REACTIVITY- 0

SECTION V-HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LEVEL 500 PPM

THRESHOLD LIMIT VALUE 100 PPM

EFFECTS OF ACUTE OVEREXPOSURE: FOR PRODUCT

EYES - CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, BLURRED VISION.
SKIN - PROLONGED OR REPEATED CONTACT CAN CAUSE MODERATE IRRITATION, DEFATTING, DERMATITIS.

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CONTINUED ON PAGE: 2

000921 MINERAL SPIRITS NONEXEMPT PAGE: 2

SECTION V-HEALTH HAZARD DATA (CONTINUED)

BREATHING - EXCESSIVE INHALATION OF VAPORS CAN CAUSE NASAL AND RESPIRATORY IRRITATION, CENTRAL NERVOUS SYSTEM EFFECTS INCLUDING DIZZINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE AND POSSIBLE UNCONSCIOUSNESS, AND EVEN ASPHYXIATION.
SWALLOWING - CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND DIARRHEA. ASPIRATION OF MATERIAL INTO THE LUNGS CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL.

FIRST AID:

IF ON SKIN: THOROUGHLY WASH EXPOSED AREA WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. LAUNDER CONTAMINATED CLOTHING BEFORE RE-USE.

IF IN EYES: FLUSH WITH LARGE AMOUNTS OF WATER, LIFTING UPPER AND LOWER LIDS OCCASIONALLY, GET MEDICAL ATTENTION.

IF SWALLOWED: DO NOT INDUCE VOMITING, KEEP PERSON WARM, QUIET, AND GET MEDICAL ATTENTION. ASPIRATION OF MATERIAL INTO THE LUNGS DUE TO VOMITING CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL.

IF BREATHED: IF AFFECTED, REMOVE INDIVIDUAL TO FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. IF BREATHING HAS STOPPED GIVE ARTIFICIAL RESPIRATION. KEEP PERSON WARM, QUIET AND GET MEDICAL ATTENTION.

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PRIMARY ROUTE(S) OF ENTRY:

INHALATION

SKIN CONTACT

EFFECTS OF CHRONIC OVEREXPOSURE: FOR PRODUCT

OVEREXPOSURE TO THIS MATERIAL (OR ITS COMPONENTS) HAS BEEN SUGGESTED AS A CAUSE OF THE FOLLOWING EFFECTS IN HUMANS:, CENTRAL NERVOUS SYSTEM EFFECTS

SECTION VI-REACTIVITY DATA

HAZARDOUS POLYMERIZATION: CANNOT OCCUR

STABILITY: STABLE

INCOMPATIBILITY: AVOID CONTACT WITH:, STRONG OXIDIZING AGENTS.

SECTION VII-SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

SMALL SPILL: ABSORB LIQUID ON PAPER, VERMICULITE, FLOOR ABSORBENT, OR OTHER ABSORBENT MATERIAL AND TRANSFER TO HOOD.

LARGE SPILL: ELIMINATE ALL IGNITION SOURCES (FLARES, FLAMES INCLUDING PILOT LIGHTS, ELECTRICAL SPARKS). PERSONS NOT WEARING PROTECTIVE EQUIPMENT SHOULD BE EXCLUDED FROM AREA OF SPILL UNTIL CLEAN-UP HAS BEEN COMPLETED. STOP SPILL AT SOURCE, DIKE AREA OF SPILL TO PREVENT SPREADING, PUMP LIQUID TO SALVAGE TANK. REMAINING LIQUID MAY BE TAKEN UP ON SAND, CLAY, EARTH, FLOOR ABSORBENT, OR OTHER ABSORBENT MATERIAL AND SHOVELED INTO CONTAINERS. PREVENT RUN-OFF TO SEWERS, STREAMS OR OTHER BODIES OF WATER. IF RUN-OFF OCCURS, NOTIFY PROPER AUTHORITIES AS REQUIRED, THAT A SPILL HAS OCCURED.

WASTE DISPOSAL METHOD:

SMALL SPILL: ALLOW VOLATILE PORTION TO EVAPORATE IN HOOD. ALLOW SUFFICIENT TIME FOR VAPORS TO COMPLETELY CLEAR HOOD DUCT WORK. DISPOSE OF REMAINING MATERIAL IN ACCORDANCE WITH APPLICABLE REGULATIONS.

LARGE SPILL: DESTROY BY LIQUID INCINERATION.
CONTAMINATED ABSORBENT MAY BE DEPOSITED IN A LANDFILL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION VIII-PROTECTIVE EQUIPMENT TO BE USED

RESPIRATORY PROTECTION: IF TLV OF THE PRODUCT OR ANY COMPONENT IS EXCEEDED, A NIOSH/MSHA JOINTLY APPROVED AIR SUPPLIED RESPIRATOR IS ADVISED IN ABSENCE OF PROPER ENVIRONMENTAL CONTROL. OSHA REGULATIONS ALSO PERMIT OTHER NIOSH/MSHA RESPIRATORS UNDER SPECIFIED CONDITIONS. (SEE YOUR SAFETY EQUIPMENT SUPPLIER). ENGINEERING OR ADMINISTRATIVE CONTROLS SHOULD BE IMPLEMENTED TO REDUCE EXPOSURE.

VENTILATION: PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

PROTECTIVE GLOVES: WEAR RESISTANT GLOVES SUCH AS:, NITRILE RUBBER

EYE PROTECTION: CHEMICAL SPLASH GOGGLES IN COMPLIANCE WITH OSHA REGULATIONS ARE ADVISED; HOWEVER, OSHA REGULATIONS ALSO PERMIT OTHER TYPE SAFETY GLASSES. (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER)

OTHER PROTECTIVE EQUIPMENT: TO PREVENT REPEATED OR PROLONGED SKIN CONTACT, WEAR IMPERVIOUS CLOTHING AND BOOTS.

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CONTINUED ON PAGE: 3

SECTION IX-SPECIAL PRECAUTIONS OR OTHER COMMENTS

CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS GIVEN IN THE DATA SHEET MUST BE OBSERVED.

THE INFORMATION ACCUMULATED HEREIN IS BELIEVED TO BE ACCURATE BUT IS NOT WARRANTED TO BE WHETHER ORIGINATING WITH THE COMPANY OR NOT. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE OF NEED THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES.

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DEFINITIONS

THIS DEFINITION PAGE IS INTENDED FOR USE WITH MATERIAL SAFETY DATA SHEETS SUPPLIED BY ASHLAND OIL, INC. AND ITS DIVISIONS. RECIPIENTS OF THESE DATA SHEETS SHOULD CONSULT THE OSHA SAFETY AND HEALTH STANDARDS (29 CFR 1910), PARTICULARLY SUBPART G - OCCUPATIONAL HEALTH AND ENVIRONMENTAL CONTROL, AND SUBPART I - PERSONAL PROTECTIVE EQUIPMENT, FOR GENERAL GUIDANCE ON CONTROL OF POTENTIAL OCCUPATIONAL HEALTH AND SAFETY HAZARDS.

SECTION I
PRODUCT IDENTIFICATION

GENERAL OR GENERIC ID: CHEMICAL FAMILY OR PRODUCT DESCRIPTION.

DOT HAZARD CLASSIFICATION: PRODUCT MEETS DOT CRITERIA FOR HAZARDS LISTED.

SECTION II
COMPONENTS

COMPONENTS ARE LISTED IN THIS SECTION IF THEY PRESENT A PHYSICAL OR HEALTH HAZARD AND ARE PRESENT AT OR ABOVE 1% IN THE MIXTURE. IF A COMPONENT IS IDENTIFIED AS A CARCINOGEN BY NTP, IARC OR OSHA AS OF THE DATE ON THE MSDS, IT WILL BE LISTED AND FOOTNOTED IN THIS SECTION WHEN PRESENT AT OR ABOVE 0.1% IN THE PRODUCT. NEGATIVE CONCLUSIONS CONCERNING CARCINOGENICITY ARE NOT REPORTED. ADDITIONAL INFORMATION MAY BE FOUND IN SECTION V. OTHER COMPONENTS MAY BE LISTED IF DEEMED APPROPRIATE.

IDENTITIES OF COMPONENTS LISTED GENERICALLY ARE DECLARED TRADE SECRET.

EXPOSURE RECOMMENDATIONS ARE FOR COMPONENTS. OSHA PERMISSIBLE EXPOSURE LIMITS (PELS) AND AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH) THRESHOLD LIMIT VALUES (TLVS) APPEAR ON THE LINE WITH THE COMPONENT IDENTIFICATION. OTHER RECOMMENDATIONS APPEAR AS FOOTNOTES.

SECTION III
PHYSICAL DATA

BOILING POINT: OF PRODUCT IF KNOWN. THE LOWEST VALUE OF THE COMPONENTS IS LISTED FOR MIXTURES.

VAPOR PRESSURE: OF PRODUCT IF KNOWN. THE HIGHEST VALUE OF THE COMPONENTS IS LISTED FOR MIXTURES.

SPECIFIC VAPOR DENSITY: COMPARED TO AIR = 1. IF SPECIFIC VAPOR DENSITY OF PRODUCT IS NOT KNOWN, THE VALUE IS EXPRESSED AS LIGHTER OR HEAVIER THAN AIR.

SPECIFIC GRAVITY: COMPARED TO WATER = 1. IF SPECIFIC GRAVITY OF PRODUCT IS NOT KNOWN, THE VALUE IS EXPRESSED AS LESS THAN OR GREATER THAN WATER.

PH: IF APPLICABLE.

PERCENT VOLATILES: PERCENTAGE OF MATERIAL WITH INITIAL BOILING POINT BELOW +25 DEGREES FAHRENHEIT.

EVAPORATION RATE: INDICATED AS FASTER OR SLOWER THAN ETHYL ETHER, UNLESS OTHERWISE STATED.

SECTION IV
FIRE AND EXPLOSION INFORMATION

FLASH POINT: METHOD IDENTIFIED.

EXPLOSION LIMITS: FOR PRODUCT IF KNOWN. THE LOWEST VALUE OF THE COMPONENTS IS LISTED FOR MIXTURES.

HAZARDOUS DECOMPOSITION PRODUCTS: KNOWN OR EXPECTED HAZARDOUS PRODUCTS RESULTING FROM HEATING, BURNING, OR OTHER REACTIONS.

SECTION IV (CONT.)

EXTINGUISHING MEDIA: FOLLOWING NATIONAL FIRE PROTECTION ASSOCIATION CRITERIA.

FIREFIGHTING PROCEDURES: MINIMUM EQUIPMENT TO PROTECT FIREFIGHTERS FROM TOXIC PRODUCTS OF VAPORIZATION, COMBUSTION OR DECOMPOSITION IN FIRE SITUATIONS. OTHER FIREFIGHTING HAZARDS MAY ALSO BE INDICATED.

SPECIAL FIRE AND EXPLOSION HAZARDS: STATES HAZARDS NOT COVERED BY OTHER SECTIONS.

NFPA CODES: HAZARD RATINGS ASSIGNED BY THE NATIONAL FIRE PROTECTION ASSOCIATION.

SECTION V
HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LIMIT: FOR PRODUCT.

THRESHOLD LIMIT VALUE: FOR PRODUCT.

EFFECTS OF ACUTE OVEREXPOSURE: POTENTIAL LOCAL AND SYSTEMIC EFFECTS DUE TO SINGLE OR SHORT TERM OVEREXPOSURE TO THE EYES AND SKIN OR THROUGH INHALATION OR INGESTION.

EFFECTS OF CHRONIC OVEREXPOSURE: POTENTIAL LOCAL AND SYSTEMIC EFFECTS DUE TO REPEATED OR LONG TERM OVEREXPOSURE TO THE EYES AND SKIN OR THROUGH INHALATION OR INGESTION.

FIRST AID: PROCEDURES TO BE FOLLOWED WHEN DEALING WITH ACCIDENTAL OVEREXPOSURES.

PRIMARY ROUTE OF ENTRY: BASED ON PROPERTIES AND EXPECTED USE.

SECTION VI
REACTIVITY DATA

HAZARDOUS POLYMERIZATION: CONDITIONS TO AVOID TO PREVENT HAZARDOUS POLYMERIZATION RESULTING IN A LARGE RELEASE OF ENERGY.

STABILITY: CONDITIONS TO AVOID TO PREVENT HAZARDOUS OR VIOLENT DECOMPOSITION.

INCOMPATIBILITY: MATERIALS AND CONDITIONS TO AVOID TO PREVENT HAZARDOUS REACTIONS.

SECTION VII
SPILL OR LEAK PROCEDURES

REASONABLE PRECAUTIONS TO BE TAKEN AND METHODS OF CONTAINMENT, CLEAN-UP AND DISPOSAL. CONSULT FEDERAL, STATE AND LOCAL REGULATIONS FOR ACCEPTED PROCEDURES AND ANY REPORTING OR NOTIFICATION REQUIREMENTS.

SECTION VIII
PROTECTIVE EQUIPMENT TO BE USED

PROTECTIVE EQUIPMENT WHICH MAY BE NEEDED WHEN HANDLING THE PRODUCT.

SECTION IX
SPECIAL PRECAUTIONS OR OTHER COMMENTS

COVERS ANY RELEVANT POINTS NOT PREVIOUSLY MENTIONED.

ADDITIONAL COMMENTS

CONTAINERS SHOULD BE EITHER RECONDITIONED BY CERTIFIED FIRMS OR PROPERLY DISPOSED OF BY APPROVED FIRMS. DISPOSAL OF CONTAINERS SHOULD BE IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS. "EMPTY" DRUMS SHOULD NOT BE GIVEN TO INDIVIDUALS. SERIOUS ACCIDENTS HAVE RESULTED FROM THE MISUSE OF "EMPTIED" CONTAINERS (DRUMS, PAILS, ETC.). REFER TO SECTIONS IV AND IX.

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U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form Approved
OMB No. 44-R1387

Date Prepared
9/17/85

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Personnel Department

DoALL MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing, Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

DoALL Company	EMERGENCY TELEPHONE NO. (312) 824-1122
254 N. Laurel Ave., Des Plaines, IL 60016	
CHEMICAL NAME AND SYNONYMS: Oil in water emulsion former	TRADE NAME AND SYNONYMS: DoALL Company's Power-Cut 390EHD
CHEMICAL FAMILY	FORMULA: Mixture

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS DOES NOT CONTAIN NITRITE COMPOUNDS					

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	CAS#	%	TLV (Units)
Ethylene glycol monobutyl ether(Butyl Cellosolve)	111-76-2	3.0	SKIN 50ppm
Oil if misted mechanically during use	64741-53-3	68.5	5 mg/M^3

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N.D.	SPECIFIC GRAVITY (H_2O=1)	<1.0
VAPOR PRESSURE (mm Hg.) equals	water	PERCENT, VOLATILE BY VOLUME (%)	7.5-8.0
VAPOR DENSITY (AIR=1)	N.D.	EVAPORATION RATE (_____ =1)	N.D.
SOLUBILITY IN WATER forms emulsions			
APPEARANCE AND ODOR Dark brown liquid, slight petroleum odor			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) after water forced off=360°F	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA Co_2, Dry chemical, Water fog.			
SPECIAL FIRE FIGHTING PROCEDURES Wear self contained breathing apparatus in confined or enclosed areas.			
UNUSUAL FIRE AND EXPLOSION HAZARDS Prolonged, intense fire-SO_x compounds may be formed.			

(Continued on reverse side)

MSDS 968-140046

EMERGENCY PHONE NO. (517) 496-5900

SECTION I

PRODUCT NAME OR NUMBER: MOLYKOTE(R) 33 GREASE - ALL GRADES

MANUFACTURERS NAME: DOW CORNING CORPORATION
ADDRESS: SOUTH SAGINAW ROAD, MIDLAND MI 48640

PROPER SHIPPING NAME(49 CFR 172.101): NONE
D.O.T. HAZARD NAME(49 CFR 172.101):NONE
D.O.T. ID NO(49 CFR 172.101): N.A.
D.O.T. HAZARD CLASS (49 CFR 172.101): NONE
RCRA HAZARD CLASS*(40 CFR 261): NONE
E.P.A. PRIORITY POLLUTANTS (40 CFR 122.53): NONE
HEALTH (NFPA): 1 FLAMABILITY (NFPA): 1 REACTIVITY (NFPA): 0
CAS. NO.: MIXTURE DCWC: 76
GENERIC DESCRIPTION: SILICONE
* IF DISCARDED

SECTION II HAZARDOUS INGREDIENTS

None present %: TLV (units):
%: TLV (units):

SECTION III HEALTH HAZARD DATA HEALTH (NFPA) 1

EFFECTS OF OVEREXPOSURE: May cause temporary discomfort to eyes.

THRESHOLD LIMIT VALUE OF PRODUCT: Not applicable

EMERGENCY AND FIRST AID PROCEDURES: Flush with water.

SECTION IV FIRE AND EXPLOSION HAZARD DATA FLAMMABILITY (NFPA) 1

FLASH POINT (Method Used): Open Cup above 250°F/121°C.
FLAMMABLE LIMITS IN AIR, % BY VOLUME: Lower: Not applicable
Upper: Not applicable
EXTINGUISHING MEDIA: Carbon dioxide or foam.
SPECIAL FIRE FIGHTING PROCEDURES: Self contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.
UNUSUAL FIRE AND EXPLOSION HAZARDS: None known to Dow Corning.

(R) INDICATES REGISTERED OR TRADEMARK NAME OF DOW CORNING CORPORATION

DOW CORNING CORPORATION
MATERIAL SAFETY DATA SHEET

NAME OR NUMBER: MOLYKOTE(R) 33 GREASE - ALL GRADES

SECTION V PHYSICAL DATA

BOILING POINT: Above 300°F/149°C.
SPECIFIC GRAVITY: 1.05
MELTING POINT: Not applicable
VAPOR PRESSURE: Less than 5 mm.
VAPOR DENSITY (AIR=1): Not applicable
PERCENT VOLATILE BY VOLUME (%): Less than 5%
EVAPORATION RATE (ether =1): Less than 1
SOLUBILITY IN WATER (%): Less than 0.1%
FLASH POINT (method used): Open Cup above 250°F/121°C
ODOR, APPEARANCE, COLOR: Very little odor, paste like, some color.

SECTION VI REACTIVITY DATA REACTIVITY (NFPA) 0

STABILITY: STABLE
CONDITIONS TO AVOID: NOT APPLICABLE
INCOMPATABILITY (MATERIALS TO AVOID): OXIDIZING MATERIAL CAN CAUSE A REACTION.

HAZARDOUS DECOMPOSITION PRODUCTS: SILICON DIOXIDE, CARBON DIOXIDE, AND TRACES OF INCOMPLETELY BURNED CARBON PRODUCTS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
CONDITIONS TO AVOID: NOT APPLICABLE

SECTION VII SPILL, LEAK AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: USE ABSORBENT MATERIAL TO COLLECT AND CONTAIN FOR SALVAGE OR DISPOSAL.

WASTE DISPOSAL METHOD: DOW CORNING SUGGESTS THAT ALL LOCAL, STATE AND FEDERAL REGULATIONS CONCERNING HEALTH AND POLLUTION BE REVIEWED TO DETERMINE APPROVED DISPOSAL PROCEDURES. CONTACT DOW CORNING IF THERE ARE ANY DISPOSAL QUESTIONS

D.O.T.(49 CFR 171.8)/E.P.A.(40 CFR 117)SPILL REPORTING INFORMATION

HAZARDOUS SUBSTANCE: NONE RQ: NOT APPLICABLE
CONCENTRATION OF HAZARDOUS SUBSTANCE: NOT APPLICABLE
REPORTABLE QUANTITY OF PRODUCT: NOT APPLICABLE

(R) INDICATES REGISTERED OR TRADEMARK NAME OF DOW CORNING CORPORATION

NAME OR NUMBER: MOLYKOTE(R) 33 GREASE - ALL GRADES

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): NONE SHOULD BE NEEDED.

VENTILATION
LOCAL EXHAUST: NONE SHOULD BE NEEDED.
SPECIAL: NONE KNOWN TO DOW CORNING.
MECHANICAL (GENERAL): RECOMMENDED.
OTHER: NONE KNOWN TO DOW CORNING.

PROTECTIVE GLOVES: NONE SHOULD BE NEEDED.

EYE PROTECTION: PROPER EYE PROTECTION SHOULD BE WORN IN ANY TYPE OF INDUSTRIAL OPERATION.

OTHER PROTECTIVE EQUIPMENT: AS REQUIRED BY YOUR COMPANY.

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: USE REASONABLE CARE.

OTHER PRECAUTIONS: NONE KNOWN TO DOW CORNING.

NOTE: NONE

THIS DATA IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EITHER EXPRESS OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE.

PREPARED BY: NONE

DATE: JULY 08, 1985

LAST REVISED: JANUARY 14, 1981
PREVIOUS REVISION DATE: OCTOBER 24, 1979

(R) INDICATES REGISTERED OR TRADEMARK NAME OF DOW CORNING CORPORATION

Loctite Corporation

705 North Mountain Road
Newington, Connecticut 06111
Telephone: (203) 278-1280
Telex: 99348

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Product Name: ACCELERATOR FOR INSTANT ADHESIVES (AEROSOL) Part No. 729
Product Type: Accelerator Formula No. ____

II. COMPOSITION

Ingredients	% by Wt.	Hazard
1,1,1-Trichloroethane*	99+	Toxic, TLV = 350 ppm
Ethanolamine Derivative	<1	

*1,1,1-Trichloroethane (methyl chloroform) has been shown to cause reproductive affects and kidney and liver damage in experimental animals on prolonged inhalation. It is our best technical judgment that, with proper precautions, normal use of this product poses no such hazards.

III. CHEMICAL AND PHYSICAL PROPERTIES

Vapor Pressure 100 mm at 70°F
Vapor Density 4.5
Solubility in Water Nil
Appearance Clear Liquid
Specific Gravity 1.35 at 70°F
Boiling Point 170°F
pH dna
Odor Sharp

IV. TOXICITY AND HEALTH HAZARD DATA

Toxicity Possible eye irritant.
Est. Oral LD 50 >5000 mg/kg
Est. Dermal LD 50 >2000 mg/kg
TLV 350 ppm
Symptoms of Overexposure Headache, nausea, dizziness. Narcosis at high concentration.

Emergency Treatment Procedures
Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.
Inhalation: Remove to fresh air. If symptoms persist, obtain medical attention.
Skin Contact: Flush with water.
Eye Contact: Flush thoroughly with water. Have eyes checked by physician.

Personal Protection
Eyes: Safety glasses or goggles recommended.
Skin: Rubber or plastic gloves recommended.
Ventilation: Provide adequate local ventilation to maintain vapor concentration below TLV.

ACCELERATOR FOR INSTANT ADHESI S (AEROSOL)

V. FLAMMABILITY AND EXPLOSIVE PROPERTIES

Flash point None Method T.C.C.
Explosive Limits (% by volume in air) Lower dna % Upper dna %
Recommended Extinguishing Agents CO_2, Foam, Dry Chemical
Hazardous Products Formed by Fire or Thermal Decomposition: Toxic chlorides

Unusual Fire or Explosion Hazards: None
Compressed Gasses Name Carbon dioxide
Pressure at Room Temperature 50 psi

VI. REACTIVITY DATA

Stability [X] Stable [ ] Unstable
Hazardous Polymerization [ ] May Occur [X] Will Not Occur
Hazardous Decomposition Products (non-thermal)
None

Incompatibility May react violently with aluminum on prolonged contact.

VII. SPILL OR LEAK AND DISPOSAL PROCEDURES

Steps to be taken in case of spill or leak: Allow to evaporate with good ventilation.

Recommended methods of disposal: Follow EPA and local regulations for disposal of chlorinated hydrocarbons. Do not incinerate cans still under pressure.

VIII. STORAGE AND HANDLING PROCEDURES

Storage: Store below 110°F
Handling: Avoid prolonged breathing of vapor. Keep away from eyes.

IX. SHIPPING REGULATIONS

Type or Class DOT ORM-D
IATA CLASS 2 - Compressed Gas
Proper Shipping Name DOT Consumer-type Commodity
IATA Aerosol, non-flammable, n.o.s., toxic

Prepared By: Martin Hauser
Title: Vice President - Environmental Health and Safety
Date: November 1, 1985

McGean-Rohco, Inc.

1250 Terminal Tower, Cleveland, Ohio 44113, 216/621-6425

MATERIAL SAFETY DATA SHEET

Product Name: CEE-BEE STRIPPER A -236		Emergency Phone No.: 213/803-4311
Plant Address: McGean Rohco, Inc., Cee-Bee Division 9520 CeeBee Drive, Downey, Ca. 90241		Chemtrec Phone No. 800/424-9300
Prepared By: W.L. Becktel	Issue Date:	Revised Date: 9/86

INGREDIENTS AND HAZARDOUS COMPONENTS

Material	%	TLV	C.A.S. #	Suspect Carcinogen
Methylene Chloride ** 200 ppm (CA) ** 500 ppm (EPA)	60 max	**	75092	n/a
Methanol	1-2	400 ppm	67561	n/a
Ethanol	5-7	1000 ppm	64-17-5	n/a
Aqua ammonia	8 max	25 ppm	1336216	n/a
Sodium Chromate	<1	n/a	7775113	X

PHYSICAL DATA

Boiling Point: 110°F Approx.	Freezing Point: below 32°F	Specific Gravity: 1.08	pH: > 10
Vapor Pressure at 20° C: <24	Vapor Density (Air = 1): more than 1	% Volatiles by Volume: approx. 90	Odor: ammonia
Evaporation Rate (Butyl Acetate = 1) (water =1) less than 1		Solubility in Water: partially miscible	
Appearance and Form: thickened, yellow liquid			

FIRE AND EXPLOSION HAZARD DATA

Flash Point: none to boiling	Flammable Limits in Air: % By Volume Upper: non-flammable Lower: non-flammable
Test Method: n/a	
Extinguishing Media: none required	
Special Fire Fighting Procedures: n/a	
Unusual Fire and Explosion Hazards: n/a	
DOT Classification: Paint related material, NA 1760	Note: UK = Unknown NA = Not Applicable

HEALTH HAZARD DATA

Effects of Overexposure and Primary Entnes to Body:

Threshold Limit Value 300 ppm
Intoxication, gastric upset, skin and eye irritation.

CHRONIC EXPOSURE MAY POSSIBLY AFFECT KIDNEYS AND LIVER.

Emergency and First Aid Procedures:

Inhalation - remove to fresh air. Skin - flood with water. Eyes - flood with water and if irritation persists seek medical attention.
Ingestion - do NOT induce vomiting, seek medical attention.

REACTIVITY DATA

☒ Stable ☐ Unstable Conditions to Avoid:

n/a

Incompatability — Materials to Avoid:

n/a

Hazardous Decomposition Products:

phosgene may be formed on incineration

Hazardous Polymerization:

☐ May Occur ☒ Will Not Occur

SPILL OR LEAK PROCEDURES

Spills:

scoop up and haul away - flush with water

Waste Disposal Methods:

COMPLY WITH ALL FEDERAL, STATE, AND LOCAL ENVIRONMENT REGULATIONS.

SPECIAL PROTECTION INFORMATION

Respirator:

NIOSH Certified Equipment List (Publication No. 144)

Ventilation:

Mechanical

Gloves:	Eye and Face:	Other:
solvent rst plastic	goggles or face shield	**

Handling and Storage:

Store in cool, dry place. Avoid temperatures above 110°F
Open containers slowly to avoid spewing of contents

** For large stripping operations, wear fullwash rack gear.

THIS PRODUCT SAFETY DATA SHEET IS OFFERED SOLELY FOR YOUR INFORMATION, CONSIDERATION AND INVESTIGATION.

McGEAN-ROHCO. INC. PROVIDES NO WARRANTIES. EITHER EXPRESS OR IMPLIED. AND ASSUMES NO RESPONSIBILITY FOR ACCURACY OR COMPLETENESS OF THE DATA CONTAINED HEREIN.

EXXON COMPANY, U.S.A.
A DIVISION OF EXXON CORPORATION

DATE ISSUED: 10/21/88
SUPERSEDES DATE: 02/09/88

MATERIAL SAFETY DATA SHEET

EXXON COMPANY, U.S.A. P.O. BOX 2180 HOUSTON, TX 77252-2180

A. IDENTIFICATION AND EMERGENCY INFORMATION

PRODUCT NAME
TURBO FUEL A

PRODUCT CODE
120400 - 00072

CHEMICAL NAME
Turbo Fuel A

CAS NUMBER
64742-47-8

PRODUCT APPEARANCE AND ODOR
Clear water-white liquid
Faint petroleum hydrocarbon odor

EMERGENCY TELEPHONE NUMBER
(713) 656-3424

B. COMPONENTS AND HAZARD INFORMATION

COMPONENTS	CAS NO. OF COMPONENTS	APPROXIMATE CONCENTRATION
Hydrotreated light distillate, petroleum	64742-47-8	100%

See Section E for Health and Hazard Information.

See Section H for additional Environmental Information.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)

Health	Flammability	Reactivity	BASIS
1	2	0	Recommended by Exxon

EXPOSURE LIMIT FOR TOTAL PRODUCT **BASIS**
100 ppm (735 mg/m3) for an 8-hour workday — Recommended by Exxon

C. PRIMARY ROUTES OF ENTRY AND EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT
If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call a physician.

SKIN
In case of skin contact, remove any contaminated clothing and wash skin thoroughly with soap and water.

INHALATION
If overcome by vapor, remove from exposure and call a physician immediately. If breathing is irregular or has stopped, start resuscitation, administer oxygen, if available.

INGESTION
If ingested, DO NOT induce vomiting; call a physician immediately.

EFFECTS OF OVEREXPOSURE (Signs and symptoms of exposure)
Overexposure may cause gasping, nausea and disorientation.

Inhalation of high vapor concentrations (attainable at elevated temperature) may have results ranging from mild depression to respiratory irritation, nausea, disorientation, and possibly death. Prolonged or repeated liquid contact with the skin will dry and defat the skin, leading to possible irritation and dermatitis.

NATURE OF HAZARD AND TOXICITY INFORMATION
Prolonged or repeated skin contact with this product tends to remove skin oils possibly leading to irritation and dermatitis; however, based on human experience and available toxicological data, this product is judged to be neither a "corrosive" nor an "irritant" by OSHA criteria.

Product contacting the eyes may cause eye irritation.

Lifetime skin painting studies conducted by the American Petroleum Institute, Exxon and others have shown that similar products boiling between 175-370°C (350-700°F) usually produce skin tumors and/or skin cancer in laboratory mice. The degree of carcinogenic response was weak to moderate with a relatively long latent period. The implications of these results for humans have not been determined.

Limited studies on oils that are very active carcinogens have shown that washing the animals' skin with soap and water between applications greatly reduces tumor formation. These studies demonstrate the effectiveness of cleansing the skin after contact.

Potential risks to humans can be minimized by observing good work practices and personal hygiene procedures generally recommended for petroleum products. See Section I for recommended protection and precautions.

Laboratory animal studies have shown that prolonged and repeated inhalation exposure to light hydrocarbon vapors in the same naphtha boiling range as this product can produce adverse kidney effects in male rats. However, these effects were not observed in similar studies with female rats and male and female mice and in limited studies with other animal species. Additionally, in a number of human studies, there was no clinical evidence of such effects at normal occupational levels. It is therefore highly unlikely that the kidney effects observed in male rats have significant implications for humans exposed at or below the recommended vapor limits in the workplace.

Product has a low order of acute oral and dermal toxicity, but minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

This product is judged to have an acute oral LD50 (rat) greater than 5 g/kg of body weight, and an acute dermal LD50 (rabbit) greater than 3.16 g/kg of body weight.

PRE-EXISTING MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY EXPOSURE
Petroleum Solvents/Petroleum Hydrocarbons - Skin contact may aggravate an existing dermatitis.

F. PHYSICAL DATA

The following data are approximate or typical values and should not be used for precise design purposes.

BOILING RANGE
Approximately 160-300°C (320-572°F)

SPECIFIC GRAVITY (15.6 C/15.6 C)
0.7753 to 0.8398
ASTM D 1298

MOLECULAR WEIGHT
Approximately 180 average

pH
Essentially neutral

VAPOR PRESSURE
Less than 5 mm Hg @ 20°C

VAPOR DENSITY (AIR = 1)
Greater than 5

PERCENT VOLATILE BY VOLUME
100

EVAPORATION RATE @ 1 ATM. AND 25 C (77 F)
(n-BUTYL ACETATE = 1)
Less than 0.1

PERSONAL HYGIENE
Minimize breathing vapor, mist or fumes. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before reuse. Remove contaminated shoes and thoroughly clean before reuse; discard if oil-soaked. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

J. TRANSPORTATION AND OSHA RELATED LABEL INFORMATION

TRANSPORTATION INCIDENT INFORMATION
For further information relative to spills resulting from transportation incidents, refer to latest Department of Transportation Emergency Response Guidebook for Hazardous Materials Incidents, DOT P 5800.3.

DOT IDENTIFICATION NUMBER
UN 1863

OSHA REQUIRED LABEL INFORMATION
In compliance with hazard and right-to-know requirements, the following OSHA Hazard Warnings should be found on a label, bill of lading or invoice accompanying this shipment.

DANGER!

COMBUSTIBLE

LONG-TERM, REPEATED EXPOSURE MAY
CAUSE SKIN CANCER

Note: Product label will contain additional non-OSHA related information.

The information and recommendations contained herein are, to the best of Exxon's knowledge and belief, accurate and reliable as of the date issued. Exxon does not warrant or guarantee their accuracy or reliability, and Exxon shall not be liable for any loss or damage arising out of the use thereof.

The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. If buyer repackages this product, legal council should be consulted to insure proper health, safety and other necessary information is included on the container.

The Environmental Information included under Section H hereof as well as the Hazardous Materials Identification System (HMIS) and National Fire Protection Association (NFPA) ratings have been included by Exxon Company, U.S.A. in order to provide additional health and hazard classification information. The ratings recommended are based upon the criteria supplied by the developers of these rating systems, together with Exxon's interpretation of the available data.

FOR ADDITIONAL INFORMATION ON HEALTH EFFECTS CONTACT:
DIRECTOR OF INDUSTRIAL HYGIENE
EXXON COMPANY, U.S.A.
P. O. BOX 2180 ROOM 3157
HOUSTON, TX 77252-2180

FOR OTHER PRODUCT INFORMATION CONTACT:

MANAGER, MARKETING TECHNICAL SERVICES
EXXON COMPANY, U.S.A.
P. O. BOX 2180 ROOM 2355
HOUSTON, TX 77252-2180

EXXON COMPANY, U.S.A.
A DIVISION OF EXXON CORPORATION

DATE ISSUED: 10/08/87
SUPERSEDES DATE: 09/19/87

MATERIAL SAFETY DATA SHEET

EXXON COMPANY, U.S.A. P.O. BOX 2180 HOUSTON, TX 77252-2180

A. IDENTIFICATION AND EMERGENCY INFORMATION

PRODUCT NAME
AVIATION GASOLINE 100 LL

PRODUCT CODE
113000 - 00039

CHEMICAL NAME
Aviation Gasoline

CAS NUMBER
Complex Mixture
CAS Number not applicable

PRODUCT APPEARANCE AND ODOR
Clear blue liquid
Gasoline hydrocarbon odor

EMERGENCY TELEPHONE NUMBER
(713) 656-3424

B. COMPONENTS AND HAZARD INFORMATION

COMPONENTS	CAS NO. OF COMPONENTS	APPROXIMATE CONCENTRATION

Product is a variable complex mixture of components, principally hydrocarbons, blended to performance, rather than chemical, specifications.

See Section E for Health and Hazard Information.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)

Health	Flammability	Reactivity	BASIS
1	3	0	Recommended by Exxon

EXPOSURE LIMIT FOR TOTAL PRODUCT
100 ppm (300 mg/m3) for an 8-hour workday

BASIS
Recommended by Exxon. The American Conference of Governmental Industrial Hygienists (ACGIH) lists Threshold Limit Value (TLV) of 300 ppm (900 mg/m3) for an 8-hour workday; 500 ppm STEL

C. PRIMARY ROUTES OF ENTRY AND EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT
If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call a physician.

SKIN
In case of skin contact, remove any contaminated clothing and wash skin thoroughly with soap and water.

INHALATION
If overcome by vapor, remove from exposure and call a physician immediately. If breathing is irregular or has stopped, start resuscitation, administer oxygen, if available.

INGESTION
If ingested, DO NOT induce vomiting; call a physician immediately.

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E. HEALTH AND HAZARD INFORMATION

VARIABILITY AMONG INDIVIDUALS
Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.

EFFECTS OF OVEREXPOSURE (Signs and symptoms of exposure)
High vapor concentrations (greater than approximately 1000 ppm) are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anesthetic, may cause unconsciousness, and may have other central nervous system effects including death.

Prolonged or repeated liquid contact with the skin will dry and defat the skin, leading to possible irritation and dermatitis.

NATURE OF HAZARD AND TOXICITY INFORMATION
Prolonged or repeated skin contact with this product tends to remove skin oils possibly leading to irritation and dermatitis; however, based on human experience and available toxicological data, this product is judged to be neither a "corrosive" nor an "irritant" by OSHA criteria.

Product contacting the eyes may cause eye irritation.

This product may contain up to a maximum of 4.9 weight percent benzene, CAS No. 71-43-2, as a natural constituent of various gasoline blend components. Benzene can cause anemia and other blood diseases, including leukemia (cancer of the blood-forming system), after prolonged or repeated exposures at high concentrations (e.g., 50-500 ppm). It has also caused fetal defects in tests on laboratory animals. Exxon's recommended OEL for benzene is 5 ppm for an 8-hour period, or 250 ppm-minutes over a 5- to 30-minutes period.

Contains light hydrocarbon components. Lifetime studies by the American Petroleum Institute have shown that kidney damage and kidney cancer can occur in male rats after prolonged inhalation exposures at elevated concentrations of total gasoline. Kidneys of mice and female rats were unaffected. The implication of these data for humans has not been determined, particularly since most human exposures are to light components, not to total gasoline. Certain components, such as normal hexane, may also affect the nervous system at high concentrations (e.g., 1000-1500 ppm). Typically, n-hexane represents 1 to 3% of gasoline. May contain a combined concentration of toluene, CAS No. 108-88-3, and xylene, CAS No. 1330-20-7, ranging from approximately 5 to 50%.

Contains organic lead alkyl additives.

Product has a low order of acute oral and dermal toxicity, but minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

This product is judged to have an acute oral LD50 (rat) greater than 5 g/kg of body weight, and an acute dermal LD50 (rabbit) greater than 3.16 g/kg of body weight.

PRE-EXISTING MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY EXPOSURE
Benzene - Individuals with liver disease may be more susceptible to toxic effects.

Petroleum Solvents/Petroleum Hydrocarbons - Skin contact may aggravate an existing dermatitis.

Lead - To avoid further damage, those with kidney, neurological or blood disease should avoid exposure. Exposure during pregnancy should be avoided. Exposure may aggravate or precipitate an attack of gout.

Hexane - Individuals with neurological disease should avoid exposure.

F. PHYSICAL DATA

The following data are approximate or typical values and should not be used for precise

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RESPIRATORY PROTECTION
Use supplied-air respiratory protection in confined or enclosed spaces, if needed.

PROTECTIVE GLOVES
Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

EYE PROTECTION
Use splash goggles or face shield when eye contact may occur.

OTHER PROTECTIVE EQUIPMENT
Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing which could result in prolonged or repeated skin contact.

WORK PRACTICES / ENGINEERING CONTROLS
Keep containers and storage containers closed when not in use. Do not store near heat, sparks, flame or strong oxidants. Adequate ventilation required sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. Tanks that have been in leaded gasoline service may have lead-containing residue. Special precautions needed in cleaning. See American Petroleum Institute publications 2013, 2015 and 2015A. Use explosion-proof equipment. No smoking or open lights.

To minimize fire or explosion risk from static charge accumulation and discharge, effectively ground product transfer system in accordance with the National Fire Protection Association standard for petroleum products.

For use as an aviation gasoline engine fuel only. Do not use as a cleaning solvent, or thinner, or for other non-aviation gasoline engine fuel uses. Do not siphon by mouth. Minute amounts of liquid gasoline aspirated into the lungs may cause potentially fatal chemical pneumonitis.

PERSONAL HYGIENE
Minimize breathing vapor or mist. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before reuse. Remove contaminated shoes and thoroughly clean and dry before reuse. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

J. TRANSPORTATION INFORMATION

TRANSPORTATION INCIDENT INFORMATION
For further information relative to spills resulting from transportation incidents, refer to latest Department of Transportation Emergency Response Guidebook for Hazardous Materials Incidents, DOT P 5800.3.

DOT IDENTIFICATION NUMBER
UN 1203

The information and recommendations contained herein are, to the best of Exxon's knowledge and belief, accurate and reliable as of the date issued. Exxon does not warrant or guarantee their accuracy or reliability, and Exxon shall not be liable for any loss or damage arising out of the use thereof.

The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use.

The Environmental Information included under Section H hereof as well as the Hazardous Materials Identification System (HMIS) and National Fire Protection Association (NFPA) ratings have been included by Exxon Company, U.S.A. in order to provide additional health and hazard classification information. The ratings recommended are based upon the criteria supplied by the developers of these rating systems, together with Exxon's interpretation of the available data.

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MAR 10 1988
Personnel Dept.

EXXON COMPANY, U.S.A.
A DIVISION OF EXXON CORPORATION

DATE ISSUED: 10/08/87
SUPERSEDES DATE: 09/19/87

MATERIAL SAFETY DATA SHEET

EXXON COMPANY, U.S.A. P.O. BOX 2180 HOUSTON, TX 77252-2180

A. IDENTIFICATION AND EMERGENCY INFORMATION

PRODUCT NAME
AVIATION GASOLINE 100 LL

PRODUCT CODE
113000 - 00039

CHEMICAL NAME
Aviation Gasoline

CAS NUMBER
Complex Mixture
CAS Number not applicable

PRODUCT APPEARANCE AND ODOR
Clear blue liquid
Gasoline hydrocarbon odor

EMERGENCY TELEPHONE NUMBER
(713) 656-3424

B. COMPONENTS AND HAZARD INFORMATION

COMPONENTS	CAS NO. OF COMPONENTS	APPROXIMATE CONCENTRATION

Product is a variable complex mixture of components, principally hydrocarbons, blended to performance, rather than chemical, specifications.

See Section E for Health and Hazard Information.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)

Health	Flammability	Reactivity	BASIS
1	3	0	Recommended by Exxon

EXPOSURE LIMIT FOR TOTAL PRODUCT
100 ppm (300 mg/m3) for an 8-hour workday

BASIS
Recommended by Exxon. The American Conference of Governmental Industrial Hygienists (ACGIH) lists Threshold Limit Value (TLV) of 300 ppm (900 mg/m3) for an 8-hour workday; 500 ppm STEL

C. PRIMARY ROUTES OF ENTRY AND EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT
If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call a physician.

SKIN
In case of skin contact, remove any contaminated clothing and wash skin thoroughly with soap and water.

INHALATION
If overcome by vapor, remove from exposure and call a physician immediately. If breathing is irregular or has stopped, start resuscitation, administer oxygen, if available.

INGESTION
If ingested, DO NOT induce vomiting; call a physician immediately.

E. HEALTH AND HAZARD INFORMATION

VARIABILITY AMONG INDIVIDUALS
Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.

EFFECTS OF OVEREXPOSURE (Signs and symptoms of exposure)
High vapor concentrations (greater than approximately 1000 ppm) are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anesthetic, may cause unconsciousness, and may have other central nervous system effects including death.

Prolonged or repeated liquid contact with the skin will dry and defat the skin, leading to possible irritation and dermatitis.

NATURE OF HAZARD AND TOXICITY INFORMATION
Prolonged or repeated skin contact with this product tends to remove skin oils possibly leading to irritation and dermatitis; however, based on human experience and available toxicological data, this product is judged to be neither a "corrosive" nor an "irritant" by OSHA criteria.

Product contacting the eyes may cause eye irritation.

This product may contain up to a maximum of 4.9 weight percent benzene, CAS No. 71-43-2, as a natural constituent of various gasoline blend components. Benzene can cause anemia and other blood diseases, including leukemia (cancer of the blood-forming system), after prolonged or repeated exposures at high concentrations (e.g., 50-500 ppm). It has also caused fetal defects in tests on laboratory animals. Exxon's recommended OEL for benzene is 5 ppm for an 8-hour period, or 250 ppm-minutes over a 5- to 30-minutes period.

Contains light hydrocarbon components. Lifetime studies by the American Petroleum Institute have shown that kidney damage and kidney cancer can occur in male rats after prolonged inhalation exposures at elevated concentrations of total gasoline. Kidneys of mice and female rats were unaffected. The implication of these data for humans has not been determined, particularly since most human exposures are to light components, not to total gasoline. Certain components, such as normal hexane, may also affect the nervous system at high concentrations (e.g., 1000-1500 ppm). Typically, n-hexane represents 1 to 3% of gasoline. May contain a combined concentration of toluene, CAS No. 108-88-3, and xylene, CAS No. 1330-20-7, ranging from approximately 5 to 50%.

Contains organic lead alkyl additives.

Product has a low order of acute oral and dermal toxicity, but minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

This product is judged to have an acute oral LD50 (rat) greater than 5 g/kg of body weight, and an acute dermal LD50 (rabbit) greater than 3.16 g/kg of body weight.

PRE-EXISTING MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY EXPOSURE
Benzene - Individuals with liver disease may be more susceptible to toxic effects.

Petroleum Solvents/Petroleum Hydrocarbons - Skin contact may aggravate an existing dermatitis.

Lead - To avoid further damage, those with kidney, neurological or blood disease should avoid exposure. Exposure during pregnancy should be avoided. Exposure may aggravate or precipitate an attack of gout.

Hexane - Individuals with neurological disease should avoid exposure.

F. PHYSICAL DATA

The following data are approximate or typical values and should not be used for precise

RESPIRATORY PROTECTION
Use supplied-air respiratory protection in confined or enclosed spaces, if needed.

PROTECTIVE GLOVES
Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

EYE PROTECTION
Use splash goggles or face shield when eye contact may occur.

OTHER PROTECTIVE EQUIPMENT
Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing which could result in prolonged or repeated skin contact.

WORK PRACTICES / ENGINEERING CONTROLS
Keep containers and storage containers closed when not in use. Do not store near heat, sparks, flame or strong oxidants. Adequate ventilation required sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. Tanks that have been in leaded gasoline service may have lead-containing residue. Special precautions needed in cleaning. See American Petroleum Institute publications 2013, 2015 and 2015A. Use explosion-proof equipment. No smoking or open lights.

To minimize fire or explosion risk from static charge accumulation and discharge, effectively ground product transfer system in accordance with the National Fire Protection Association standard for petroleum products.

For use as an aviation gasoline engine fuel only. Do not use as a cleaning solvent, or thinner, or for other non-aviation gasoline engine fuel uses. Do not siphon by mouth. Minute amounts of liquid gasoline aspirated into the lungs may cause potentially fatal chemical pneumonitis.

PERSONAL HYGIENE
Minimize breathing vapor or mist. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before reuse. Remove contaminated shoes and thoroughly clean and dry before reuse. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

J. TRANSPORTATION INFORMATION

TRANSPORTATION INCIDENT INFORMATION
For further information relative to spills resulting from transportation incidents, refer to latest Department of Transportation Emergency Response Guidebook for Hazardous Materials Incidents, DOT P 5800.3.

DOT IDENTIFICATION NUMBER
UN 1203

The information and recommendations contained herein are, to the best of Exxon's knowledge and belief, accurate and reliable as of the date issued. Exxon does not warrant or guarantee their accuracy or reliability, and Exxon shall not be liable for any loss or damage arising out of the use thereof.

The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use.

The Environmental Information included under Section H hereof as well as the Hazardous Materials Identification System (HMIS) and National Fire Protection Association (NFPA) ratings have been included by Exxon Company, U.S.A. in order to provide additional health and hazard classification information. The ratings recommended are based upon the criteria supplied by the developers of these rating systems, together with Exxon's interpretation of the available data.

MSD HP P/N 5080-3605

THIS PRODUCT IS DESIGNED FOR INDUSTRIAL USE ONLY - IT IS TO BE USED ONLY FOR CLEANING ELECTRONIC COMPONENTS IN ACCORDANCE WITH 40 CFR 762.58(e).

Material Safety Data Sheet

Baron-Blakeslee, Inc., — 2001 N. Janice Ave., — Melrose Park, IL 60160 (312)450-3900

DATE: November, 1987
EDITION: 2nd
CHEMICAL NAME AND SYNONYMS: Trichlorotrifluoroethane
TRADE NAME AND SYNONYMS: Slidewire Cleaner
CHEMICAL FAMILY: Halogenated Hydrocarbons
FORMULA: $C_2Cl_3F_3$
DOT SHIPPING NAME: Not regulated by DOT
DOT HAZARD CLASS: Not Applicable

SECTION 1 - PHYSICAL DATA (TRICHLOROTRIFLUOROETHANE)

BOILING POINT @ 760 MM Hg:	VAPOR DENSITY(AIR=1):	SPEC. GRAV.	pH OF
117.5°F	6.5	1.57 (liquid)	SOLUTIONS: Neutral
FREEZING/MELTING POINT:	SOLUBILITY (WEIGHT % IN WATER):	BULK DENSITY:	VOLUME % VOLATILE:
Below -35°C	0.1	Approx. 13.1 lbs./gal.	100
VAPOR PRESSURE:	EVAPORATION RATE:	HEAT OF SOLUTION:	
at 70°F 5.5 PSIA	(Ether = 1) (time to evaporate): 2.0	Not available	

APPEARANCE AND ODOR: Colorless liquid with ethereal and faint sweetish odor.

SECTION 2 - HAZARDOUS INGREDIENTS

	APPROX. %	HAZARD DATA
Trichlorotrifluoroethane (Product)	75	See Section 5
Dichlorodifluoromethane (F-12) (Propellant)	25	See Section 5

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT F (METHOD USED)	FLAMMABLE LIMITS IN AIR (% BY VOLUME)	EXTINGUISH. MEDIA:
Non-Flammable (Closed Cup)	Not Available	Carbon dioxide; dry chemical or water spray

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear NIOSH positive pressure self-contained breathing apparatus for possible exposure to hydrochloric and hydrofluoric acids and phosgene. Use water spray to keep containers cool. Contents under pressure. Container exposed to high temperatures may explode.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Will decompose at temperatures above 250°F. Decomposition products can include hydrochloric and hydrofluoric acid and phosgene.

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24-HOUR EMERGENCY ASSISTANCE: 201/455-2000

ADDITIONAL INFORMATION

EXPOSURE TO TRICHLOROTRIFLUOROETHANE:

Animal studies in various species have observed cardiac arrythmia at the following concentrations:

Monkey - 25,000 - 50,000 ppm
Mouse - 100,000 ppm

Myocardial depression was observed in the dog at 50,000 ppm.

Subacute data: Rats exposed at 2,520 ppm, 7 hours/day, 5 days/wk, 30 days - no apparent effects.
At 5,000 ppm and same time exposure, mild liver effects, prevention of weight gain.

B. Dichlorodifluoromethane, CAS NO. 75-71-8 (PROPELLANT)

PERMISSIBLE EXPOSURE LIMITS (TLV)

Current Federal OSHA permissible exposure limit (29 CFR 1910.1000) is 1,000 ppm (8 hour TWA).

ACGIH has adopted a permissible exposure limit of 1,000 ppm (8 hour TLV).

ROUTES/EFFECTS OF EXPOSURE:

INHALATION: This material is low in toxicity at concentrations as high as 4% (40,000 ppm): when oxygen levels in air are reduced to 12-14%; symptoms of asphyxiation; loss of coordination, increased pulse rate cardiac sensitization and deeper respiration will occur.

A narcotic effect has been reported. Also, published animal studies report that cardiac arrhythmia and myocardial depression are produced in species as follows, if inhaled 5 minutes at varying concentrations:

SPECIES	MINIMUM INHALED CONCENTRATION (PPM)
Monkey	50,000-100,000
Mouse	Over 400,000
Rat	Over 400,000
Dog	100,000

EYE OR SKIN CONTACT: Contact with liquid can cause frostbite indicated by pallor or redness, loss of sensation and swelling.

INGESTION: Not applicable (gaseous at normal temperature and pressure).

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WASTE DISPOSAL METHOD: Contaminated sawdust, vermiculite or porous surface must be disposed of in a permitted hazardous waste management facility. Recovered liquids may be reprocessed or incinerated or must be treated in a permitted hazardous waste management facility. Care must be taken when using or disposing of chemical materials and/or their containers to prevent environmental contamination. It is your duty to dispose of the chemical materials and/or their containers in accordance with the Clean Air Act, the Clean Water Act, the Resource Conservation and Recovery Act as well as any other relevant federal, state or local laws/regulations regarding disposal.

SECTION 8 - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: None required for adequately vented work situations. Use NIOSH approved self-contained or supplied-air respirators for emergencies and in situations where air may be displaced by vapors.

VENTILATION (TYPE): Local exhaust: At filling zones and where leakage is probable. Mechanical (General): Adequate for storage areas.

EYE PROTECTION: Splashproof Goggles

GLOVES: Protective gloves and full protective clothing if there is prolonged or repeated contact of liquid with skin.

OTHER PROTECTIVE EQUIPMENT: Safety shower and eye-wash fountain in immediate area. Personal protective clothing and use of equipment must be in accordance with 29 CFR 1910.133 and 29 CFR 1910.132.

SECTION 9 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORING:

* DO NOT use in poorly ventilated or confined spaces.
* Trichlorotrifluoroethane vapors are heavier than air and will collect in low areas.
* Keep container closed when not in use.
* DO NOT store in open, unlabeled or mislabeled containers.
* This material or its vapors when in contact with flames, hot glowing surfaces or electric arcs can decompose to form hydrogen chloride gas hydrofluoric acid and traces of phosgene.
* AVOID CONTAMINATION OF WATER SUPPLIES: Handling, storage and use procedures must be carefully monitored to avoid spills or leaks. Any spill or leak has the potential to cause underground water contamination which may, if sufficiently severe, render a drinking water source unfit for human consumption. Contamination that does occur cannot be easily corrected.
* DO NOT puncture container. DO NOT crush or incinerate container.
* DO NOT expose to high temperatures.

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KAMAN BEARING & SUPPLY CORP
FIRESTONE DR
SYRACUSE, NY. 13221

DOW CORNING CORPORATION
MATERIAL SAFETY DATA SHEET

MATL NAME: DOW CORNING(R) 33 EXT LOW TEMP BEAR. GREASE-LIGHT
EMERGENCY TELEPHONE NO. (517) 496-5900

SECTION I - GENERAL INFORMATION

MANUFACTURERS NAME: DOW CORNING CORPORATION
ADDRESS: SOUTH SAGINAW ROAD, MIDLAND MI 48686

PROPER SHIPPING NAME(49CFR 172.101): NONE
D.O.T. HAZARD NAME(49CFR 172.101): NONE
D.O.T. ID NO(49CFR 172.101): NONE
D.O.T. HAZARD CLASS(49CFR 172.101): NONE
RCRA HAZARD CLASS(40CFR 261)(IF DISCARDED): NONE
E.P.A. PRIORITY POLLUTANTS(40CFR 122.53): NONE
NFPA = NATIONAL FIRE PROTECTION ASSOCIATION - 704
HEALTH (NFPA): 1 FLAMMABILITY (NFPA): 1 REACTIVITY (NFPA): 0
CAS NO: MIXTURE DOW CORNING WARNING CODE: 98
GENERIC DESCRIPTION: SILICONE

SECTION II - HAZARDOUS INGREDIENT

NONE PRESENT % TLV (UNITS):

ONLY THOSE INGREDIENTS LISTED IN THIS SECTION HAVE BEEN DETERMINED TO BE HAZARDOUS AS DEFINED IN 29 CFR 1910.1200. AN INGREDIENT MARKED WITH AN ASTERISK(*) IS ALSO LISTED IN 29 CFR 1910.1200(D) #4 AS KNOWN OR SUSPECTED CARCINOGEN.

COMMENT:NONE.

DOW CORNING CORPORATION
MATERIAL SAFETY DATA SHEET

MATL NAME: DOW CORNING(R) 33 EXT LOW TEMP BEAR. GREASE-LIGHT

SECTION III - EFFECTS OF OVEREXPOSURE

EYES: MAY CAUSE TEMPORARY DISCOMFORT.

SKIN: SINGLE, PROLONGED EXPOSURE (HOURS) CAUSES NO KNOWN EFFECT.
SEVERAL REPEATED, PROLONGED EXPOSURES MAY CAUSE SLIGHT IRRITATION.

INHALATION: NO EFFECTS EXCEPT VERY SLIGHT IRRITATION OR PAIN TO THE EYES OR RESPIRATORY PASSAGES.

ORAL: AMOUNTS TRANSFERRED TO THE MOUTH BY FINGERS, ETC., DURING NORMAL OPERATIONS SHOULD NOT CAUSE INJURY.

COMMENT: NO KNOWN ADVERSE CHRONIC HEALTH EFFECTS, BUT UNNECESSARY EXPOSURE TO ANY CHEMICAL SHOULD BE AVOIDED.
THIS PRODUCT, AS WITH ANY CHEMICAL, MAY ENHANCE ALLERGIC CONDITIONS ON CERTAIN PEOPLE. WE DO NOT KNOW OF ANY MEDICAL CONDITIONS THAT MIGHT BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

SECTION IV - EMERGENCY AND FIRST AID PROCEDURES

EYES: FLUSH WITH WATER.

SKIN: WIPE OFF AND WASH WITH MILD SOAP AND WATER SOLUTION OR "WATERLESS" CLEANER.

INHALATION: NO PROBLEM.

ORAL: NO PROBLEM.

COMMENT: NONE.

SECTION V - FIRE AND EXPLOSION DATA

FLASH POINT (METHOD USED): OPEN CUP ABOVE 250°F/121°C
AUTOIGNITION: NOT DETERMINED.
FLAMMABILITY LIMITS IN AIR : LOWER:N.A. UPPER: N.A.

EXTINGUISHING MEDIA: WATER WATER FOG X CO2 X DRY CHEMICAL X FOAM X OTHER

SPECIAL FIRE FIGHTING PROCEDURES: SELF_CONTAINED BREATHING APPRARATUS AND PROTECTIVE CLOTHING SHOULD BE WORN IN FIGHTING FIRES INVOLVING CHEMICALS

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE KNOWN TO DOW CORNING.

COMMENTS: N.A. - NOT APPLICABLE.

SECTION VI - PHYSICAL DATA

BOILING POINT(@ 760 MM HG): ABOVE 300°F/149°C.
SPECIFIC GRAVITY (AT 77 DEG F/25 DEG C): 1.05
MELTING POINT: NOT APPLICABLE
VAPOR PRESSURE (AT 77 DEG F/25 DEG C): LESS THAN 5 MM.
VAPOR DENSITY (AIR = 1 AT 77 DEG F/25 DEG C): NOT APPLICABLE
PERCENT VOLATILE BY VOLUME (%): LESS THAN 5%
EVAPORATION RATE (ETHER = 1): LESS THAN 1
SOLUBILITY IN WATER(%): LESS THAN 0.1%
ODOR, APPEARANCE, COLOR: VERY LITTLE ODOR, GREASE, LIGHT BEIGE-TAN

NOTE: THE ABOVE INFORMATION IS NOT INTENDED FOR USE IN PREPARING PRODUCT SPECIFICATIONS. CONTACT DOW CORNING BEFORE WRITING SPECIFICATIONS

DOW CORNING CORPORATION
MATERIAL SAFETY DATA SHEET

MATL NAME: DOW CORNING(R) 33 EXT LOW TEMP BEAR. GREASE-LIGHT

SECTION VII - REACTIVITY DATA

STABILITY: STABLE

INCOMPATABILITY(MATERIAL TO AVOID): OXIDIZING MATERIAL CAN CAUSE A REACTION.

CONDITIONS TO AVOID: NOT APPLICABLE

HAZARDOUS DECOMPOSITION PRODUCTS: SILICON DIOXIDE, CARBON DIOXIDE, AND TRACES OF INCOMPLETELY BURNED CARBON PRODUCTS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: NOT APPLICABLE

COMMENTS: NONE.

SECTION VIII - SPILL, LEAK AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE PRODUCT AND USE ABSORBENT MATERIAL TO TAKE CARE OF ANY OIL-LIKE RESIDUES.

PROTECTIVE EQUIPMENT:
EYES: USE PROPER PROTECTION -- SAFETY GLASSES, AS A MINIMUM.

SKIN: WASHING AT MEALTIME AND END OF SHIFT IS ADEQUATE.

INHALATION: NO RESPIRATORY PROTECTION REQUIRED.

WASTE DISPOSAL METHOD: DOW CORNING SUGGESTS THAT ALL LOCAL,STATE AND FEDERAL REGULATIONS CONCERNING HEALTH AND POLLUTION BE REVIEWED TO DETERMINE APPROVED DISPOSAL PRODEURES. CONTACT DOW CORNING IF THERE ARE ANY DISPOSAL QUESTIONS.

D.O.T. (49CFR 171.8)/E.P.A. (40CFR 117) SPILL REPORTING INFORMATION
HAZARDOUS SUBSTANCE: NONE REPORTABLE QUANTITY: NOT APPLICABLE
CONCENTRATION OF HAZARDOUS SUBSTANCE: NOT APPLICABLE
REPORTABLE QUANTITY OF PRODUCT: NOT APPLICABLE

COMMENTS: NONE.

SECTION IX - ROUTINE HANDLING PRECAUTIONS

PROTECTIVE EQUIPMENT:
EYES: USE PROPER PROTECTION -- SAFETY GLASSES, AS A MINIMUM.

SKIN *: WASHING AT MEALTIME AND END OF SHIFT IS ADEQUATE.

INHALATION: NO RESPIRATORY PROTECTION REQUIRED.

VENTILATION:
LOCAL EXHAUST: NONE
MECHANICAL (GENERAL): RECOMMENDED

SUITABLE RESPIRATOR: NONE SHOULD BE NEEDED.

THESE PRECAUTIONS ARE FOR ROOM TEMPERATURE HANDLING, USE AT ELEVATED TEMPERATURE MAY REQUIRE ADDED PRECAUTIONS.
* GOOD PRACTICE REQUIRES THAT GROSS AMOUNT OF ANY CHEMICAL BE REMOVED FROM THE SKIN AS SOON AS PRACTICAL, ESPECIALLY BEFORE EATING OR SMOKING.
COMMENTS: NONE

SECTION X - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: USE REASONABLE CARE AND CAUTION.

OTHER PRECAUTIONS: NONE KNOWN TO DOW CORNING.
COMMENTS: TRACES OF FORMALDEHYDE AND OTHER THERMAL DECOMPOSITION PRODUCTS MAY FORM AT TEMPERATURES ABOVE 150C IN THE PRESENCE OF AIR. PROVIDE ADEQUATE VENTILATION WHEN HANDLING AT ELEVATED TEMPERATURES.

KAMAN BEARING & SUPPLY CORP
FIRESTONE DR
SYRACUSE, NY. 13221

DOW CORNING CORPORATION
MATERIAL SAFETY DATA SHEET

MATL NAME: DOW CORNING(R) 33 EXT LOW TEMP BEAR. GREASE-LIGHT
EMERGENCY TELEPHONE NO. (517) 496-5900

SECTION I - GENERAL INFORMATION

MANUFACTURERS NAME: DOW CORNING CORPORATION
ADDRESS: SOUTH SAGINAW ROAD, MIDLAND MI 48686

PROPER SHIPPING NAME(49CFR 172.101): NONE
D.O.T. HAZARD NAME(49CFR 172.101): NONE
D.O.T. ID NO(49CFR 172.101): NONE
D.O.T. HAZARD CLASS(49CFR 172.101): NONE
RCRA HAZARD CLASS(40CFR 261)(IF DISCARDED): NONE
E.P.A. PRIORITY POLLUTANTS(40CFR 122.53): NONE
NFPA = NATIONAL FIRE PROTECTION ASSOCIATION - 704
HEALTH (NFPA): 1 FLAMMABILITY (NFPA): 1 REACTIVITY (NFPA): 0
CAS NO: MIXTURE DOW CORNING WARNING CODE: 98
GENERIC DESCRIPTION: SILICONE

SECTION II - HAZARDOUS INGREDIENT

NONE PRESENT % TLV (UNITS):

ONLY THOSE INGREDIENTS LISTED IN THIS SECTION HAVE BEEN DETERMINED TO BE HAZARDOUS AS DEFINED IN 29 CFR 1910.1200. AN INGREDIENT MARKED WITH AN ASTERISK(*) IS ALSO LISTED IN 29 CFR 1910.1200(D) #4 AS KNOWN OR SUSPECTED CARCINOGEN.

COMMENT:NONE.

DOW CORNING CORPORATION
MATERIAL SAFETY DATA SHEET

MATL NAME: DOW CORNING(R) 33 EXT LOW TEMP BEAR. GREASE-LIGHT

SECTION III - EFFECTS OF OVEREXPOSURE

EYES: MAY CAUSE TEMPORARY DISCOMFORT.

SKIN: SINGLE, PROLONGED EXPOSURE (HOURS) CAUSES NO KNOWN EFFECT.
SEVERAL REPEATED, PROLONGED EXPOSURES MAY CAUSE SLIGHT IRRITATION.

INHALATION: NO EFFECTS EXCEPT VERY SLIGHT IRRITATION OR PAIN TO THE EYES OR RESPIRATORY PASSAGES.

ORAL: AMOUNTS TRANSFERRED TO THE MOUTH BY FINGERS, ETC., DURING NORMAL OPERATIONS SHOULD NOT CAUSE INJURY.

COMMENT: NO KNOWN ADVERSE CHRONIC HEALTH EFFECTS, BUT UNNECESSARY EXPOSURE TO ANY CHEMICAL SHOULD BE AVOIDED.
THIS PRODUCT, AS WITH ANY CHEMICAL, MAY ENHANCE ALLERGIC CONDITIONS ON CERTAIN PEOPLE. WE DO NOT KNOW OF ANY MEDICAL CONDITIONS THAT MIGHT BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

SECTION IV - EMERGENCY AND FIRST AID PROCEDURES

EYES: FLUSH WITH WATER.

SKIN: WIPE OFF AND WASH WITH MILD SOAP AND WATER SOLUTION OR "WATERLESS" CLEANER.

INHALATION: NO PROBLEM.

ORAL: NO PROBLEM.

COMMENT: NONE.

SECTION V - FIRE AND EXPLOSION DATA

FLASH POINT (METHOD USED): OPEN CUP ABOVE 250°F/121°C
AUTOIGNITION: NOT DETERMINED.
FLAMMABILITY LIMITS IN AIR : LOWER:N.A. UPPER: N.A.

EXTINGUISHING MEDIA: WATER WATER FOG X CO2 X DRY CHEMICAL X FOAM X OTHER

SPECIAL FIRE FIGHTING PROCEDURES: SELF_CONTAINED BREATHING APPRARATUS AND PROTECTIVE CLOTHING SHOULD BE WORN IN FIGHTING FIRES INVOLVING CHEMICALS

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE KNOWN TO DOW CORNING.

COMMENTS: N.A. - NOT APPLICABLE.

SECTION VI - PHYSICAL DATA

BOILING POINT(@ 760 MM HG): ABOVE 300°F/149°C.
SPECIFIC GRAVITY (AT 77 DEG F/25 DEG C): 1.05
MELTING POINT: NOT APPLICABLE
VAPOR PRESSURE (AT 77 DEG F/25 DEG C): LESS THAN 5 MM.
VAPOR DENSITY (AIR = 1 AT 77 DEG F/25 DEG C): NOT APPLICABLE
PERCENT VOLATILE BY VOLUME (%): LESS THAN 5%
EVAPORATION RATE (ETHER = 1): LESS THAN 1
SOLUBILITY IN WATER(%): LESS THAN 0.1%
ODOR, APPEARANCE, COLOR: VERY LITTLE ODOR, GREASE, LIGHT BEIGE-TAN

NOTE: THE ABOVE INFORMATION IS NOT INTENDED FOR USE IN PREPARING PRODUCT SPECIFICATIONS. CONTACT DOW CORNING BEFORE WRITING SPECIFICATIONS

DOW CORNING CORPORATION
MATERIAL SAFETY DATA SHEET

MATL NAME: DOW CORNING(R) 33 EXT LOW TEMP BEAR. GREASE-LIGHT

SECTION VII - REACTIVITY DATA

STABILITY: STABLE

INCOMPATABILITY(MATERIAL TO AVOID): OXIDIZING MATERIAL CAN CAUSE A REACTION.

CONDITIONS TO AVOID: NOT APPLICABLE

HAZARDOUS DECOMPOSITION PRODUCTS: SILICON DIOXIDE, CARBON DIOXIDE, AND TRACES OF INCOMPLETELY BURNED CARBON PRODUCTS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: NOT APPLICABLE

COMMENTS: NONE.

SECTION VIII - SPILL, LEAK AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE PRODUCT AND USE ABSORBENT MATERIAL TO TAKE CARE OF ANY OIL-LIKE RESIDUES.

PROTECTIVE EQUIPMENT:
EYES: USE PROPER PROTECTION -- SAFETY GLASSES, AS A MINIMUM.

SKIN: WASHING AT MEALTIME AND END OF SHIFT IS ADEQUATE.

INHALATION: NO RESPIRATORY PROTECTION REQUIRED.

WASTE DISPOSAL METHOD: DOW CORNING SUGGESTS THAT ALL LOCAL,STATE AND FEDERAL REGULATIONS CONCERNING HEALTH AND POLLUTION BE REVIEWED TO DETERMINE APPROVED DISPOSAL PRODEURES. CONTACT DOW CORNING IF THERE ARE ANY DISPOSAL QUESTIONS.

D.O.T. (49CFR 171.8)/E.P.A. (40CFR 117) SPILL REPORTING INFORMATION
HAZARDOUS SUBSTANCE: NONE REPORTABLE QUANTITY: NOT APPLICABLE
CONCENTRATION OF HAZARDOUS SUBSTANCE: NOT APPLICABLE
REPORTABLE QUANTITY OF PRODUCT: NOT APPLICABLE

COMMENTS: NONE.

SECTION IX - ROUTINE HANDLING PRECAUTIONS

PROTECTIVE EQUIPMENT:
EYES: USE PROPER PROTECTION -- SAFETY GLASSES, AS A MINIMUM.

SKIN *: WASHING AT MEALTIME AND END OF SHIFT IS ADEQUATE.

INHALATION: NO RESPIRATORY PROTECTION REQUIRED.

VENTILATION:
LOCAL EXHAUST: NONE
MECHANICAL (GENERAL): RECOMMENDED

SUITABLE RESPIRATOR: NONE SHOULD BE NEEDED.

THESE PRECAUTIONS ARE FOR ROOM TEMPERATURE HANDLING, USE AT ELEVATED TEMPERATURE MAY REQUIRE ADDED PRECAUTIONS.
* GOOD PRACTICE REQUIRES THAT GROSS AMOUNT OF ANY CHEMICAL BE REMOVED FROM THE SKIN AS SOON AS PRACTICAL, ESPECIALLY BEFORE EATING OR SMOKING.
COMMENTS: NONE

SECTION X - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: USE REASONABLE CARE AND CAUTION.

OTHER PRECAUTIONS: NONE KNOWN TO DOW CORNING.
COMMENTS: TRACES OF FORMALDEHYDE AND OTHER THERMAL DECOMPOSITION PRODUCTS MAY FORM AT TEMPERATURES ABOVE 150C IN THE PRESENCE OF AIR. PROVIDE ADEQUATE VENTILATION WHEN HANDLING AT ELEVATED TEMPERATURES.

KAMAN BEARING & SUPPLY CORP
FIRESTONE DR
SYRACUSE, NY. 13221

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Personnel Department

DOW CORNING CORPORATION
MATERIAL SAFETY DATA SHEET

MATL NAME: DOW CORNING(R) 33 EXT LOW TEMP BEAR. GREASE-LIGHT
EMERGENCY TELEPHONE NO. (517) 496-5900

SECTION I - GENERAL INFORMATION

MANUFACTURERS NAME: DOW CORNING CORPORATION
ADDRESS: SOUTH SAGINAW ROAD, MIDLAND MI 48686

PROPER SHIPPING NAME(49CFR 172.101): NONE
D.O.T. HAZARD NAME(49CFR 172.101): NONE
D.O.T. ID NO(49CFR 172.101): NONE
D.O.T. HAZARD CLASS(49CFR 172.101): NONE
RCRA HAZARD CLASS(40CFR 261)(IF DISCARDED): NONE
E.P.A. PRIORITY POLLUTANTS(40CFR 122.53): NONE
NFPA = NATIONAL FIRE PROTECTION ASSOCIATION - 704
HEALTH (NFPA): 1 FLAMMABILITY (NFPA): 1 REACTIVITY (NFPA): 0
CAS NO: MIXTURE DOW CORNING WARNING CODE: 98
GENERIC DESCRIPTION: SILICONE

SECTION II - HAZARDOUS INGREDIENT

NONE PRESENT % TLV (UNITS):

ONLY THOSE INGREDIENTS LISTED IN THIS SECTION HAVE BEEN DETERMINED TO BE HAZARDOUS AS DEFINED IN 29 CFR 1910.1200. AN INGREDIENT MARKED WITH AN ASTERISK(*) IS ALSO LISTED IN 29 CFR 1910.1200(D) #4 AS KNOWN OR SUSPECTED CARCINOGEN.

COMMENT:NONE.

DOW CORNING CORPORATION
MATERIAL SAFETY DATA SHEET

MATL NAME: DOW CORNING(R) 33 EXT LOW TEMP BEAR. GREASE-LIGHT

SECTION III - EFFECTS OF OVEREXPOSURE

EYES: MAY CAUSE TEMPORARY DISCOMFORT.

SKIN: SINGLE, PROLONGED EXPOSURE (HOURS) CAUSES NO KNOWN EFFECT.
SEVERAL REPEATED, PROLONGED EXPOSURES MAY CAUSE SLIGHT IRRITATION.

INHALATION: NO EFFECTS EXCEPT VERY SLIGHT IRRITATION OR PAIN TO THE EYES OR RESPIRATORY PASSAGES.

ORAL: AMOUNTS TRANSFERRED TO THE MOUTH BY FINGERS, ETC., DURING NORMAL OPERATIONS SHOULD NOT CAUSE INJURY.

COMMENT: NO KNOWN ADVERSE CHRONIC HEALTH EFFECTS, BUT UNNECESSARY EXPOSURE TO ANY CHEMICAL SHOULD BE AVOIDED.
THIS PRODUCT, AS WITH ANY CHEMICAL, MAY ENHANCE ALLERGIC CONDITIONS ON CERTAIN PEOPLE. WE DO NOT KNOW OF ANY MEDICAL CONDITIONS THAT MIGHT BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

SECTION IV - EMERGENCY AND FIRST AID PROCEDURES

EYES: FLUSH WITH WATER.

SKIN: WIPE OFF AND WASH WITH MILD SOAP AND WATER SOLUTION OR "WATERLESS" CLEANER.

INHALATION: NO PROBLEM.

ORAL: NO PROBLEM.

COMMENT: NONE.

SECTION V - FIRE AND EXPLOSION DATA

FLASH POINT (METHOD USED): OPEN CUP ABOVE 250°F/121°C
AUTOIGNITION: NOT DETERMINED.
FLAMMABILITY LIMITS IN AIR : LOWER:N.A. UPPER: N.A.

EXTINGUISHING MEDIA: WATER WATER FOG X CO2 X DRY CHEMICAL X FOAM X OTHER

SPECIAL FIRE FIGHTING PROCEDURES: SELF_CONTAINED BREATHING APPRARATUS AND PROTECTIVE CLOTHING SHOULD BE WORN IN FIGHTING FIRES INVOLVING CHEMICALS

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE KNOWN TO DOW CORNING.

COMMENTS: N.A. - NOT APPLICABLE.

SECTION VI - PHYSICAL DATA

BOILING POINT(@ 760 MM HG): ABOVE 300°F/149°C.
SPECIFIC GRAVITY (AT 77 DEG F/25 DEG C): 1.05
MELTING POINT: NOT APPLICABLE
VAPOR PRESSURE (AT 77 DEG F/25 DEG C): LESS THAN 5 MM.
VAPOR DENSITY (AIR = 1 AT 77 DEG F/25 DEG C): NOT APPLICABLE
PERCENT VOLATILE BY VOLUME (%): LESS THAN 5%
EVAPORATION RATE (ETHER = 1): LESS THAN 1
SOLUBILITY IN WATER(%): LESS THAN 0.1%
ODOR, APPEARANCE, COLOR: VERY LITTLE ODOR, GREASE, LIGHT BEIGE-TAN

NOTE: THE ABOVE INFORMATION IS NOT INTENDED FOR USE IN PREPARING PRODUCT SPECIFICATIONS. CONTACT DOW CORNING BEFORE WRITING SPECIFICATIONS

DOW CORNING CORPORATION
MATERIAL SAFETY DATA SHEET

MATL NAME: DOW CORNING(R) 33 EXT LOW TEMP BEAR. GREASE-LIGHT

SECTION VII - REACTIVITY DATA

STABILITY: STABLE

INCOMPATABILITY(MATERIAL TO AVOID): OXIDIZING MATERIAL CAN CAUSE A REACTION.

CONDITIONS TO AVOID: NOT APPLICABLE

HAZARDOUS DECOMPOSITION PRODUCTS: SILICON DIOXIDE, CARBON DIOXIDE, AND TRACES OF INCOMPLETELY BURNED CARBON PRODUCTS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: NOT APPLICABLE

COMMENTS: NONE.

SECTION VIII - SPILL, LEAK AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE PRODUCT AND USE ABSORBENT MATERIAL TO TAKE CARE OF ANY OIL-LIKE RESIDUES.

PROTECTIVE EQUIPMENT:
EYES: USE PROPER PROTECTION -- SAFETY GLASSES, AS A MINIMUM.

SKIN: WASHING AT MEALTIME AND END OF SHIFT IS ADEQUATE.

INHALATION: NO RESPIRATORY PROTECTION REQUIRED.

WASTE DISPOSAL METHOD: DOW CORNING SUGGESTS THAT ALL LOCAL,STATE AND FEDERAL REGULATIONS CONCERNING HEALTH AND POLLUTION BE REVIEWED TO DETERMINE APPROVED DISPOSAL PRODEURES. CONTACT DOW CORNING IF THERE ARE ANY DISPOSAL QUESTIONS.

D.O.T. (49CFR 171.8)/E.P.A. (40CFR 117) SPILL REPORTING INFORMATION
HAZARDOUS SUBSTANCE: NONE REPORTABLE QUANTITY: NOT APPLICABLE
CONCENTRATION OF HAZARDOUS SUBSTANCE: NOT APPLICABLE
REPORTABLE QUANTITY OF PRODUCT: NOT APPLICABLE

COMMENTS: NONE.

SECTION IX - ROUTINE HANDLING PRECAUTIONS

PROTECTIVE EQUIPMENT:
EYES: USE PROPER PROTECTION -- SAFETY GLASSES, AS A MINIMUM.

SKIN *: WASHING AT MEALTIME AND END OF SHIFT IS ADEQUATE.

INHALATION: NO RESPIRATORY PROTECTION REQUIRED.

VENTILATION:
LOCAL EXHAUST: NONE
MECHANICAL (GENERAL): RECOMMENDED

SUITABLE RESPIRATOR: NONE SHOULD BE NEEDED.

THESE PRECAUTIONS ARE FOR ROOM TEMPERATURE HANDLING, USE AT ELEVATED TEMPERATURE MAY REQUIRE ADDED PRECAUTIONS.
* GOOD PRACTICE REQUIRES THAT GROSS AMOUNT OF ANY CHEMICAL BE REMOVED FROM THE SKIN AS SOON AS PRACTICAL, ESPECIALLY BEFORE EATING OR SMOKING.
COMMENTS: NONE

SECTION X - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: USE REASONABLE CARE AND CAUTION.

OTHER PRECAUTIONS: NONE KNOWN TO DOW CORNING.
COMMENTS: TRACES OF FORMALDEHYDE AND OTHER THERMAL DECOMPOSITION PRODUCTS MAY FORM AT TEMPERATURES ABOVE 150C IN THE PRESENCE OF AIR. PROVIDE ADEQUATE VENTILATION WHEN HANDLING AT ELEVATED TEMPERATURES.

Loctite Corporation

705 North Mountain Road
Newington, Connecticut 06111
Telephone: (203) 278-1280
Telex: 99348

C 327...
Date-8 25-8

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Product Name RETAINING COMPOUND 609 Part No. 609
Product Type Anaerobic Formula No.

II. COMPOSITION

Ingredients	% by Wt.	Hazard
Polyglycol Dimethacrylates	60-65	See Section IV.
Hydroxyalkyl Methacrylate	15-20	
Coumarone-Indene Resin	5-10	
Poly(ethyl methacrylate)	4-6	
Cumene Hydroperoxide*	2-3	
Saccharin**	<2	
N,N-Dialkyltoluidines	<1	

*In a single test, pure cumene hydroperoxide caused tumors in one of thirty experimental animals when injected under the skin. **Saccharin has been shown to cause tumors in experimental animals when fed in large amounts for prolonged periods. In light of the low concentration of these components in the product, it is our best technical judgment that normal use of this product poses no such hazards. These warnings are present only to comply with OSHA regulations.

III. CHEMICAL AND PHYSICAL PROPERTIES

Vapor Pressure < 5 mm at 80°F
Vapor Density Unknown
Solubility in Water Slight
Appearance Green Liquid
Specific Gravity 1.1 at 80°F
Boiling Point > 300°F
pH dna
Odor Mild

IV. TOXICITY AND HEALTH HAZARD DATA

Toxicity
Oral LD 50 >5000 mg/kg
Dermal LD 50 >2000 mg/kg
TLV Does not apply
Symptoms of Overexposure May cause dermatitis on prolonged contact in sensitive individuals.

Emergency Treatment Procedures
Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.
Inhalation: Does not apply.
Skin Contact: Flush with water.
Eye Contact: Flush with water.

Personal Protection
Eyes: Safety glasses recommended.
Skin: Rubber or plastic gloves recommended.
Ventilation Not normally necessary.

V. FLAMMABILITY AND EXPLOSIVE PROPERTIES

Flash point 200°F Method TCC
Explosive Limits (% by volume in air) Lower dna % Upper dna %
Recommended Extinguishing Agents CO_2, Foam, Dry Chemical
Hazardous Products Formed by Fire or Thermal Decomposition: Irritating organic vapors
Unusual Fire or Explosion Hazards: None
Compressed Gasses Name None
Pressure at Room Temperature

VI. REACTIVITY DATA

Stability [X] Stable [ ] Unstable
Hazardous Polymerization [ ] May Occur [X] Will Not Occur
Hazardous Decomposition Products (non-thermal)
None

Incompatibility None

VII. SPILL OR LEAK AND DISPOSAL PROCEDURES

Steps to be taken in case of spill or leak: Soak up in inert absorbent. Store in partly filled, closed container until disposal.

Recommended methods of disposal: Bury or incinerate in accordance with EPA and local regulations.

VIII. STORAGE AND HANDLING PROCEDURES

Storage: Store below 110°F to preserve shelf-life.
Handling: Avoid prolonged skin contact.

IX. SHIPPING REGULATIONS

Type or Class DOT Unrestricted
IATA Unrestricted

Prepared By: Martin Hauser
Title: Vice President - Environmental Health and Safety
Date: November 1, 1985

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY *(As Used on Label and List)*
SCRUB A MATIC

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name
MAGNUM RESEARCH CORP.

Address *(Number, Street, City, State, and ZIP Code)*
10-5 Drew Ct.
Ronkonkoma, N.Y. 11779

Emergency Telephone Number
(516) 737-0555

Telephone Number for Information

Date Prepared

Signature of Preparer *(optional)*

RECEIVED
NOV 23 1987
Personnel Depart

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% *(optional)*
ETHYLENE GLYCOL BUTYL ETHER CAS# 111-76-2	50ppm	25ppm		6%
POTASSIUM HYDROXIDE 45% CAS# 1310-58-3	N.A.	$2mg/m^3$ ceiling value		6%

Section III — Physical/Chemical Characteristics

Boiling Point	100°C	Specific Gravity (H_2O = 1)	1.05@ 25°C
Vapor Pressure (mm Hg.)	as water	Melting Point	as water
Vapor Density (AIR = 1)	as water	Evaporation Rate (Butyl Acetate = 1)	as water

Solubility in Water
COMPLETE

Appearance and Odor
YELLOW LIQUID, WITH A BUTYL ETHER ODOR

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
NONE	N.A.		

Extinguishing Media
USE MEDIA PROPER TO PRIMARY CAUSE OF FIRE

Special Fire Fighting Procedures
NONE KNOWN

Unusual Fire and Explosion Hazards
NONE KNOWN

(Reproduce locally)

Material Safety Data Sheet
May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

RECEIVED
NOV 18 1987

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (As Used on Label and List) Personnel Departm... NEUTRI KLEEN

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name: MAGNUM RESEARCH CORP.	Emergency Telephone Number: (516) 737-0555
Address (Number, Street, City, State, and ZIP Code): 10-5 Drew Ct. Ronkonkoma, N.Y. 11779	Telephone Number for Information: RECEIVED NOV 18 1987
	Date Prepared: May 1, 1986
	Signature of Preparer (optional): PURCHASING DEPT

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
N.A				

Section III — Physical/Chemical Characteristics

Boiling Point	100°C	Specific Gravity (H_2O = 1)	1.014
Vapor Pressure (mm Hg.)	as water	Melting Point	as water
Vapor Density (AIR = 1)	as water	Evaporation Rate (Butyl Acetate = 1)	as water

Solubility in Water: COMPLETELY

Appearance and Odor: Pink colored Viscous Liquid

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used) non-Flammable	Flammable Limits	LEL	UEL

Extinguishing Media: Use media proper to primary cause of fire

Special Fire Fighting Procedures: None

Unusual Fire and Explosion Hazards: None

(Reproduce locally)

OSHA 174 Sept 1985

than safety and medical purposes, is prohibited without authorization of OAKITE PRODUCTS, INC.

MATERIAL SAFETY DATA SHEET (MSDS)

OAKITE STRIPPER ANP

108-XD-1228 5383
HMIS 2-0-0-H

SECTION I

		EMERGENCY TELEPHONE NO.
TRADE NAME (if None, Put Chemical)	Oakite Stripper ANP	(201) 464-6900 (7AM-5PM)
CHEMICAL NAME AND SYNONYMS	NA - Mixture	
MANUFACTURER'S NAME AND TELEPHONE NO.	Oakite Products, Incorporated	(800) 424-9300 (CHEMTREC)
ADDRESS (Number, Street City, State, Zip Code)	50 Valley Road	Berkeley Heights NJ 07922

SECTION II - HAZARDOUS INGREDIENTS

	%	TLV	PEL	UNITS
Methylene chloride (CAS #75 09 2)	75-85	100	500	PPM
Formic acid (CAS #64 18 6)	10-20	5	5	PPM
Dodecylbenzenesulfonic acid (CAS #27176 87 0)	<5	NE	NE	
Non-hazardous ingredients*	Bal.	NA	NA	

*Unidentified ingredients are not considered hazardous under the Federal Hazard Communication Standard (29 CFR 1910.1200).

SECTION III - PHYSICAL DATA

BOILING POINT (°F)	>104	SPECIFIC GRAVITY (H_2O=1)	1.29
VAPOR PRESSURE (MM Hg.)	NE	PERCENT VOLATILE BY VOLUME (%)	>80
VAPOR DENSITY (AIR=1)	>1	pH	NA
SOLUBILITY IN WATER	Appreciable	EVAPORATION RATE (Ether = 1)	<1
APPEARANCE AND ODOR	Dark brown liquid; vinegar odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	NONE	FLAMMABLE LIMITS	LEL NE	UEL NE
EXTINGUISHING MEDIA	Carbon dioxide, dry chemical, or foam			
SPECIAL FIRE FIGHTING PROCEDURES	Wear Self-Contained Breathing Apparatus (SCBA).			
UNUSUAL FIRE AND EXPLOSION HAZARDS	Closed containers may explode when exposed to extreme heat.			

NA - Not Applicable NE - Not Established UN - Unavailable

RECEIVED OCT 1987

MATERIAL SAFETY DATA SHEET

SECTION I

U

PRODUCT NAME: Polysulfide Sealant, Part A

MSDS IDENTIFICATION NO: MS0080B04
DATE OF ISSUE: 03-15-88
REPLACES: MS0080B03
PREPARED BY: AS

DESCRIPTION: Lead Dioxide Dispersion

MANUFACTURER: Products Research & Chemical Corporation
5430 San Fernando Road, P.O. Box 1800, Glendale, CA 91209

EMERGENCY TELEPHONE: (818) 240-2060

SECTION II - HAZARDOUS INGREDIENTS

CHEMICAL NAME	COMMON NAME	CAS NO	% BY WT	OSHA PEL	ACGIH TLV TWA	ACGIH TLV STEL
Lead dioxide	Lead dioxide	1309-60-0	75	0.05mg/M^3	0.15mg/M^3	Not Est.

SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point, °F.:	Not applicable.	Specific Gravity:	2.6
Vapor Pressure, mm Hg:	Not applicable.	% Volatiles, by Vol:	0
Vapor Density:	Not applicable.	Evaporation Rate:	Not applicable.
Solubility in Water:	Negligible		

SECTION VII - SUGGESTED CONTROL PROCEDURES OR LEAK PROCEDURES

Ventilation:	Not applicable.
Skin Protection:	Oil resistant gloves are recommended.
Eye Protection:	Safety glasses.

SECTION VIII - SPILL OR LEAKAGE PROCEDURES

Release or Spillage:	Scoop up spilled material. Clean up residue with rags and non-flammable solvent.
Waste Disposal:	Dispose of in compliance with Federal and State regulations. D008 EPA Hazardous Waste.

SECTION IX - SPECIAL PRECAUTIONS

Wash thoroughly after handling and before smoking or eating. Avoid ingestion. This product contains a toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

The information provided herein is, to the best of the manufacturer's knowledge, current, accurate and complete, based on information reasonably available.

NJ Hazardous Waste

FalconJet®

September 7, 1989

RIGHT TO KNOW PROGRAM
P.O. Box 401
Trenton, NJ 08607

SUBJECT: FALCON JET CORPORATION

Gentlemen:

Enclosed please find Form DEQ-094, Community Right To Know Survey For 1988, which has been completed and duly signed on behalf of Falcon Jet Corporation, showing any and all hazardous substances or materials that are present at Falcon Jet's facilities.

Should you have any questions regarding the above, please feel free to contact the undersigned.

Very truly yours,

FALCON JET CORPORATION

By _____
Peter S. Rothwell
Associate Counsel

PSR:meh
Enclosure

L-12-250-89-410

cc: Moonachie Police Dept.
Moonachie Fire Dept.
Mr. Ed Hope
Mr. Rudy Bioletti
Falcon Jet Legal File

Teterboro, New Jersey 07608
201 288-5300

EQ-094
9/88

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMUNITY RIGHT TO KNOW SURVEY FOR 1988

to satisfy requirements under SARA, Title III, Section 312 and New Jersey Community Right to Know

NJEIN | SIC | COUNTY/MUNIC. | DUE DATE

33655500000--5088--0262--09/18/89

FALCON JET CORP

ATTN: PETER ROTHWELL

TETERSORO AIRPORT

TERERSORO, NJ 07608

Indicate changes to mailing address on label

IMPORTANT: A separate survey must be completed for each facility.

(A) FACILITY LOCATION
If the facility location is different than the mailing address on the label, enter facility address below.

Hangars 113, 114, 119, Billy Diehl Rd
Teterboro, NJ 07608
Warehouse, 90 Moonachie Avenue
Teterboro, NJ 07608

Check here if you would like your survey mailed to above address ☐

(B) Does this facility use, store, or produce any hazardous materials at quantities which must be reported under the N.J. Worker & Community Right to Know Act or Section 312, Title III of the Superfund Amendments and Reauthorization Act?
(See Instructions for reporting thresholds) ☐ Yes ☒ No

(C) Briefly describe the nature of the operations or business conducted at this facility: Maintenance and service of business jet aircraft; hangar, office space, and warehouse facility

(D) Number of employees at facility: 310

(E) Number of facilities in New Jersey 2

(F) Dun and Bradstreet No. 06 133 7663

(G) Check the box if a Research and Development Exemption Claim is being made for any portion of this facility. ☐

(H) CERTIFICATION OF OWNER/OPERATOR OR AUTHORIZED REPRESENTATIVE — I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

9/7/89

Signature _____ Date 9/8/89 Phone Number (201) 288-5300

Name (Print) J. Morgan Young Title Sr. Vice President Finance and Administration

(I) POLICE AND FIRE DEPARTMENT — Enter the respective phone numbers, names and addresses (including Zip Code) of your local police and fire departments in the spaces below.

POLICE DEPT.	FIRE DEPT.
Phone Number (201) 641-9100	Phone Number (201) 641-9100
Name Moonachie Police Dept.	Name Moonachie Fire Dept.
Address 70 Moonachie Road	Address 115 Moonachie Road
Municipality Moonachie, NJ Zip Code 07074	Municipality Moonachie, NJ Zip Code 07074

(J) FACILITY EMERGENCY CONTACT
Name Ed Hope Title Jet Center Manager
Facility Phone Number (201) 288-5300 Emergency Contact Phone Number (201) 288-5300

NOTE: Make copies of this survey! The law requires that you send a copy to your County Lead Agency, Local Emergency Planning Committee and your local police and fire departments.
(County agency and local committee addresses in Instructions)

Return original to:
RIGHT TO KNOW PROGRAM
P.O. Box 401
Trenton, NJ 08607

FOR INTERNAL USE ONLY STAT ☐ FTS ☐ E ☐ F ☐

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF HAZARDOUS SUBSTANCE INFORMATION
RIGHT TO KNOW RESEARCH AND DEVELOPMENT LAB QUESTIONNAIRE

1. Name of Employer Falcon Jet Corporation
   Facility Address Teterboro Airport
   Teterboro, NJ 07608

   N.J. Employer ID Number 33655500000
   (The 11 digit number at the top of the mailing label).

   The address should indicate the actual location; not a corporate mailing address or post office box.

2. Which are you claiming as an exemption? N/A
   _____A portion of the above facility _____The entire facility

3. Attach a description of the ways in which your research and development laboratory is a "specially designated" area. (Please specify size and specific location of this area.)

   N/A

4. During the preceding 12 months, what percentage of work days in this area was devoted to testing activity related to quality control?

   N/A

5. During the preceding 12 months, what percentage of work days in this area was devoted to production of goods for commercial sale?

   N/A

6. Attach a description of the ways in which each supervisor of this area is "technically qualified" by virtue of training, education, and/or work experience.

   N/A

7. Give the following information about your local fire department:
   Name Moonachie Fire Dept. Phone (201) 641-9100
   Address 115 Moonachie Road
   Municipality Moonachie, NJ Zip 07074

FalconJet®

September 12, 1989

Right To Know Program
P.O. Box 401
Trenton, New Jersey 08607

SUBJECT: FALCON JET CORPORATION; COMMUNITY RIGHT TO KNOW SURVEY FOR 1988, LETTER OF SEPTEMBER 7, 1989

Gentlemen:

Falcon Jet Corporation herein supplies a supplement to its Community Right To Know Survey forms in order to clarify the locations and the additional types of chemicals which are currently at the Falcon Jet facilities.

The changes to the form have been highlighted for your convenience in identification. Should you have any question regarding this supplemental information you may contact the undersigned.

Very truly yours,

FALCON JET CORPORATION

By Peter S. Rothwell
Peter S. Rothwell
Associate Counsel

PSR:meh
Enclosures

L-12-255-89-418

cc: Moonachie Police Dept.
Moonachie Fire Dept.
Mr. Frank Youngkin
Mr. Rudy Bioletti

Teterboro, New Jersey 07608
201 288-5300

IMPORTANT! Read all instructions before completing.
Photocopy this sheet, if you need additional forms.
Please print or type all responses.

Reporting Period: January 1 - December 31, 1988

FACILITY IDENTIFICATION AND SITE LOCATION

NJEIN Falcon Jet Center - Falcon Jet Warehouse
#NJD981491509 #NJD134869551

Street Address 113 Billy Diehl Rd., Teterboro Airport, and 90 Moonachie Ave.

Facility Name Falcon Jet Corporation

City Teterboro State NJ Zip 07608

CHEMICAL DESCRIPTION	HAZARDS	Inventory (Ranges)	STORAGE CODES AND LOCATIONS
Substance Name Trichlorethyline CAS No. ___-___-___ DOT No. ___ Substance No. (if available) ___ Percent ___ State L Trade Secret NA (Code) (Code) (Check if Claiming)	(Enter for all that apply.) 70 ___, ___, ___, ___, ___	(Enter Code) Max. Daily 11 Avg. Daily 11 Days Onsite ___ (Actual Number)	(Enter Codes, except Location(s); supply narrative.) Container 47 Conditions 01 04 Location(s) Falcon Jet Center
Substance Name MEK Methylethylketone CAS No. 78 - 93 - 3 DOT No. ___ Substance No. (if available) ___ Percent ___ State L Trade Secret NA (Code) (Code) (Check if Claiming)	___, ___, ___, ___, ___	Max. Daily 11 Avg. Daily 11 Days Onsite ___ (Actual Number)	Container 46(1gal) Conditions 01 04 Location(s) Hydraulic Shop
Substance Name Jet A fuel CAS No. 71 - 43 - 2 DOT No. ___ Substance No. (if available) ___ Percent ___ State L Trade Secret NA (Code) (Code) (Check if Claiming)	70 ___, ___, ___, ___, ___	Max. Daily 15 (Trucks) Avg. Daily ___ Days Onsite ___ (Actual Number)	Container 2:34 Conditions 01 04 Location(s) Falcon Jet Center
Substance Name Hydraulic fluid CAS No. ___-___-___ DOT No. ___ Substance No. (if available) ___ Percent ___ State L Trade Secret NA (Code) (Code) (Check if Claiming)	70 ___, ___, ___, ___, ___	Max. Daily 12 Avg. Daily 12 Days Onsite ___ (Actual Number)	Container 47(55gal) Conditions 01 04 Location(s) Hydraulic Shop
Substance Name Oil CAS No. ___-___-___ DOT No. ___ Substance No. (if available) ___ Percent ___ State L Trade Secret NA (Code) (Code) (Check if Claiming)	70 ___, ___, ___, ___, ___	Max. Daily 12 Avg. Daily 12 Days Onsite ___ (Actual Number)	Container 46(quart) Conditions 01 04 Location(s) Falcon Jet Center
Substance Name Paint Waste CAS No. ___-___-___ DOT No. ___ Substance No. (if available) ___ Percent ___ State L Trade Secret NA (Code) (Code) (Check if Claiming)	70 ___, ___, ___, ___, ___	Max. Daily 11 Avg. Daily ___ Days Onsite ___ (Actual Number)	Container 47(55gal) Conditions 01 04 Location(s) Falcon Jet Center/ Hydraulic Shop
Substance Name Paint Thinner CAS No. ___-___-___ DOT No. ___ Substance No. (if available) ___ Percent ___ State L Trade Secret NA (Code) (Code) (Check if Claiming)	70 ___, ___, ___, ___, ___	Max. Daily 11 Avg. Daily 11 Days Onsite ___ (Actual Number)	Container 46(1gal) Conditions 01 04 Location(s) Hydraulic Shop

IMPORTANT! Read all instructions before completing.
Photocopy this sheet, if you need additional forms.
Please print or type all responses.

Reporting Period: January 1 - December 31, 1988

FACILITY IDENTIFICATION AND SITE LOCATION

NJEIN Falcon Jet Center - Falcon Jet Warehouse #NJD981491509 #NJD134869551

Facility Name Falcon Jet Corporation

Street Address 113 Billy Diehl Rd., Teterboro Airport and 90 Moonachie Ave.

City Teterboro State NJ Zip 07608

CONFIDENTIAL LOCATION INFORMATION SHEET	STORAGE CODES AND LOCATIONS
Substance Name Varsol CAS No. _____ DOT No. _____ Substance Number (if available) _____	Container 47 (55gal) Conditions 01 04 Location(s) Falcon Jet Center/ Hydraulic Shop
Substance Name Paint Stripper CAS No. _____ DOT No. _____ Substance Number (if available) _____	Container 47 (35gal) Conditions 01 04 Location(s) Hydraulic Shop and Falcon Jet Center
Substance Name Zyglowaste CAS No. _____ DOT No. _____ Substance Number (if available) _____	Container 46 (spray can) Conditions 01 04 Location(s) Falcon Jet Center
Substance Name 1,1,1, Trichlorethane CAS No. _____ DOT No. _____ Substance Number (if available) _____	Container 47 (55gal) Conditions 01 04 Location(s) Hydraulic Shop
Substance Name Isopropyl Alcohol CAS No. 67 - 63 - 0 DOT No. _____ Substance Number (if available) _____	Container 47 (55 gal) Conditions 01 04 Location(s) Falcon Jet Center
Substance Name Freon 113 CAS No. 76 - 13 - 1 DOT No. _____ Substance Number (if available) _____	Container 46 (1 gal) Conditions 01 04 Location(s) Falcon Jet Center/ Hydraulic Shop
Substance Name 1 + 1 Trichloroethane, Methyl Chloroform CAS No. 71 - 55 - 6 DOT No. _____ Substance Number (if available) _____	Container 47 (55 gal) Conditions 01 04 Location(s) Hydraulic Shop

Fwd Legal 9/19/90

New Jersey State
Department of Health

New Jersey Department
of Environmental Protection

Worker and Community Right to Know Act
EMPLOYER OUTREACH SURVEY

Falcon Jet

Name of Employer: 119 Bilby Rd Ext

Telephone No.: 2885300

NJEIN NUMBER: 236555000000

Street Address, City, State, Zip Code: Teterboro NJ 07608

Contact Person: Peter Rothwell

Title: Asst Counsel

SIC CODE: 5088

CO/MUN CODE: 0262

Union Name/Local Number:

Union Representative:

TOTAL NUMBER OF EMPLOYEES: 84

TOTAL NUMBER OF EXPOSED EMPLOYEES:

Union Address:

Telephone No.:

CONTACT DATES

09/20/90	09/14/90	09/17/90
Method: [✓] Phone [ ] In Person [ ] Mail	Method: [✓] Phone [ ] In Person [ ] Mail	Method: [✓] Phone [ ] In Person [✓] Mail

Type of Business Conducted at This Site: Maintance & Service of Aircraft

Comments: Send Correspondence because a Surveys and has chemicals, but check n.g. (DOH) planned RTK. Found out Facility Closed. sent Booklet - Falcon Jet Mauchaus 90 Moonachie Rd Teterboro NJ 07608 CC

Review of Forms and Materials With Employer	Employer Has? Yes	No	N/A	Needs? Yes	No	Number Needed	Sent? Yes	Date Sent
RTK Survey							✓	
RTK Regulations-DOH							✓	
RTK Hazardous Substance List							✓	
Hazardous Substance Fact Sheets-English								
Hazardous Substance Fact Sheets-Spanish								
RTK Brochures-English								
RTK Brochures-Spanish								
RTK Posters-English								
RTK Posters-Spanish								
Summary of the RTK Law								
Education and Training Program Materials-Guide								
Other								

Name of County Representative (Print): Mary Filippodi

Signature of County Representative

County Lead Agency: Bergen

Date: 9/17/90

OES-42
NOV 87

Distribution: White-DOH
Canary-County Lead Agency
Pink-DEP

P9536

9/89

DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMM NITY RIGHT TO KNOW SUR Y FOR 1989

to satisfy requirements under SARA, Title III, Section 312 and New Jersey Community Right to Know

NJEIN | SIC | COUNTY/MUNIC. | DUE DATE

33655500000--5088--0262
FALCON JET CORP
ATTN: PETER ROTHWELL
TETERBORO AIRPORT
TERERBORO, NJ 07608

PEEL HERE

Indicate changes to mailing address on label

IMPORTANT: A separate survey must be completed for each facility.

(A) FACILITY LOCATION
If the facility or township location is different than the mailing address on the label, enter location address or township below.
Facility Location #2 - EPA #134869551
Falcon Jet Warehouse
90 Moonachie Avenue
Teterboro, NJ 07608

Check here if you would like your survey mailed to above address ☐

(B) Does this facility use, store, or produce any hazardous materials which must be reported under the N.J. Worker & Community Right to Know Act or Section 312, Title III of the Superfund Amendments and Reauthorization Act?
☐ Yes ☒ No
(See Reportable Substances and Thresholds)

(C) Briefly describe the nature of the operations or business conducted at this facility: Warehouse facility for Falcon Jet aircraft parts.

(D) Number of employees at facility: 49

(E) *Number of facilities in New Jersey*: 2

(F) *Dun and Bradstreet No.*: 06 133 7663

(G) *Check the box if you were granted a R&D exemption last year or if you wish to receive an application questionnaire.* ☐

(H) CERTIFICATION OF OWNER/OPERATOR OR AUTHORIZED REPRESENTATIVE — I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

RM 2/21/90

Signature _____ Date 2/14/90 Phone Number (201) 288-5300

Name (Print) J. Morgan Young Title Sr. Vice President Finance and Administration

(I) POLICE AND FIRE DEPARTMENT — Enter the respective phone numbers, names and addresses (including Zip Code) of your local police and fire departments in the spaces below.

POLICE DEPT. Phone Number (201) 641-9100
Name Moonachie Police Department
Address 70 Moonachie Road
Municipality Moonachie, NJ Zip 07074

FIRE DEPT. Phone Number (201) 641-9100
Name Moonachie Fire Department
Address 115 Moonachie Road
Municipality Moonachie, NJ Zip 07074

(J) FACILITY EMERGENCY CONTACT
Name Mr. Rudy Bioletti Title Director
Facility Phone Number 201-288-5300 Emergency Contact Phone Number (201) 288-5300

NOTE: Make copies of this survey! The law requires that you send a copy to your County Lead Agency, Local Emergency Planning Committee and your local police and fire departments.
(County agency and local committee addresses in Instructions)

Return original to:
RIGHT TO KNOW PROGRAM
CN 405
Trenton, NJ 08625-0405

FOR INTERNAL USE ONLY STAT ☐ FTS ☐ E ☐ F ☐

IMPORTANT! Read all instructions before completing. Photocopy this sheet, if you need additional forms. Please print or type all responses. Complete sections A-F before making photocopies of this page.

Reporting Period: January 1 - December 31, 1989

FACILITY IDENTIFICATION AND SITE LOCATION - Facility #2

A. NJEIN NJD #134869551

B. Facility Name Falcon Jet Warehouse

C. Location Address 90 Moonachie Avenue

D. City Teterboro, E. State NJ F. Zip 07608

CHEMICAL DESCRIPTION	HAZARDS	Inventory (Ranges)	STORAGE CODES AND LOCATIONS
Substance Waste Flammable CAS No. N/A - - DOT No. 1270 Substance No. (if available) 2851 Percent 58 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	(Codes for all that apply.) 70 , , , ,	(Enter Code) Max. Daily 13 Avg. Daily 12 Days Onsite 365 (Actual Number)	(Enter Codes, except Location(s); supply narrative.) Container 47 Conditions 01 , 04 Location(s) Rear hazardous waste storage area; shop area
Substance 1,1,2 - Trichloroethane CAS No. 79 - 00 - 5 DOT No. N/A Substance No. (if available) 1889 Percent 58 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , , , ,	Max. Daily 12 Avg. Daily 11 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 , 04 Location(s) Rear hazardous waste storage area; shop area
Substance CAS No. - - DOT No. Substance No. (if available) Percent (Code) State (Code) Trade Secret ☐ (Check if claiming)	, , , ,	Max. Daily Avg. Daily Days Onsite (Actual Number)	Container Conditions , Location(s)
Substance CAS No. - - DOT No. Substance No. (if available) Percent (Code) State (Code) Trade Secret ☐ (Check if claiming)	, , , ,	Max. Daily Avg. Daily Days Onsite (Actual Number)	Container Conditions , Location(s)
Substance CAS No. - - DOT No. Substance No. (if available) Percent (Code) State (Code) Trade Secret ☐ (Check if claiming)	, , , ,	Max. Daily Avg. Daily Days Onsite (Actual Number)	Container Conditions , Location(s)
Substance CAS No. - - DOT No. Substance No. (if available) Percent (Code) State (Code) Trade Secret ☐ (Check if claiming)	, , , ,	Max. Daily Avg. Daily Days Onsite (Actual Number)	Container Conditions , Location(s)
Substance CAS No. - - DOT No. Substance No. (if available) Percent (Code) State (Code) Trade Secret ☐ (Check if claiming)	, , , ,	Max. Daily Avg. Daily Days Onsite (Actual Number)	Container Conditions , Location(s)

See Instructions for codes.

IMPORTANT! Read all instructions before completing. Photocopy this sheet, if you need additional forms. Please print or type all responses. Complete sections A-F before making photocopies of this page.

Reporting Period: January 1 - December 31, 1989

FACILITY IDENTIFICATION AND SITE LOCATION - Facility #1

A. NJEIN NJD 981491509

B. Facility Name Falcon Jet Service Center

C. Location Address 119 Billy Diehl Road

D. City Teterboro, E. State NJ F. Zip 07608

CHEMICAL DESCRIPTION	HAZARDS	Inventory (Ranges)	STORAGE CODES AND LOCATIONS
Substance Waste oil CAS No. N/A - - DOT No. 1270 Substance No. (if available) 2851 Percent 53 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	(Codes for all that apply.) 70 , , , , ,	(Enter Code) Max. Daily 13 Avg. Daily 12 Days Onsite 365 (Actual Number)	(Enter Codes, except Location(s); supply narrative.) Container 47 Conditions 01 , 04 Location(s) Corner of Hangars; Rear Hazardous Waste Caged Area
Substance Methyl Ethyl Ketone (MEK) CAS No. 78 - 93 - 3 DOT No. 1193 Substance No. (if available) 1258 Percent 52 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , , , , ,	Max. Daily 12 Avg. Daily 12 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 , 04 Location(s) Corner of Hangars; Rear Hazardous Waste Caged Area
Substance Jet Fuel (Benzene) CAS No. 71 - 43 - 2 DOT No. 1114 Substance No. (if available) 0197 Percent 56 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , , , , ,	Max. Daily 13 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 , 04 Location(s) Corner of Hangars; Rear Hazardous Waste Caged Area
Substance CAS No. - - DOT No. Substance No. (if available) Percent (Code) State (Code) Trade Secret ☐ (Check if claiming)	, , , , ,	Max. Daily Avg. Daily Days Onsite (Actual Number)	Container Conditions , Location(s)
Substance CAS No. - - DOT No. Substance No. (if available) Percent (Code) State (Code) Trade Secret ☐ (Check if claiming)	, , , , ,	Max. Daily Avg. Daily Days Onsite (Actual Number)	Container Conditions , Location(s)
Substance CAS No. - - DOT No. Substance No. (if available) Percent (Code) State (Code) Trade Secret ☐ (Check if claiming)	, , , , ,	Max. Daily Avg. Daily Days Onsite (Actual Number)	Container Conditions , Location(s)
Substance CAS No. - - DOT No. Substance No. (if available) Percent (Code) State (Code) Trade Secret ☐ (Check if claiming)	, , , , ,	Max. Daily Avg. Daily Days Onsite (Actual Number)	Container Conditions , Location(s)

See Instructions for codes.

FalconJet®

February 26, 1991

Community Right To Know
CN 405
Trenton, NJ 08625-0405

SUBJECT: FALCON JET CORPORATION EPA #134869551

Dear Sir or Madam:

Enclosed please find Form DEQ-094, Community Right To Know Survey for 1990, which report has been completed and duly signed on behalf of the subject corporation.

Please feel free to contact the undersigned should you have any questions regarding the enclosures.

Very truly yours,

FALCON JET CORPORATION

By _____
Peter S. Rothwel
Associate Counsel

PSR:meh
Enclosure
588
Via Certified Mail #512656577, Return Receipt Requested.

cc: Moonachie Fire Department (w/copy of enclosure)
115 Moonachie Road
Moonachie, NJ 07074

Moonachie Police Department (w/copy of enclosure)
70 Moonachie Road
Moonachie, NJ 07074

RTK Coordinator (w/copy of enclosure)
Bergen County Department of Health Services
327 East Ridgewood Avenue
Paramus, NJ 07652

Hackensack City OEM (w/copy of enclosure)
Chief Ronald Freeman
205 State St.
Hackensack, NJ 07601

DEQ-094
10/90

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Let's protect our earth

COMMUNITY RIGHT TO KNOW SURVEY FOR 1990

to satisfy requirements under SARA, Title III, Section 312 and New Jersey Community Right to Know

NJEIN SIC COUNTY/MUNIC. DUE DATE

PLACE LABEL HERE

Indicate changes to mailing address on label

Ⓐ FACILITY LOCATION
If the facility location or name is different than the mailing address on the label, enter location address or name below.
Facility Location #2 - EPA #134869551
Falcon Jet Warehouse
90 Moonachie Avenue
Teterboro, NJ 07608
Check here if you would like your survey mailed to above address ☐

IMPORTANT: A separate survey must be completed for each facility.

Ⓑ Does this facility use, store or produce any compressed gases, or any flammable, combustible, reactive, corrosive or toxic substances?
(See Reportable Substances and Thresholds) ☒ Yes ☐ No

Ⓒ Briefly describe the nature of the operations or business conducted by your company at this facility: Hydraulic Shop/Warehouse facility for repair and overhaul of aircraft hydraulic systems (Hydraulic Shop Facility closed effective 2/1/91.)

Ⓓ Number of employees at facility: 49

Ⓔ *Number of facilities in New Jersey*: 2

Ⓕ *Dun and Bradstreet No.*: 0 6 1 3 3 7 6 6 3

Ⓖ *Check the box if you were granted a R&D exemption last year or if you have attached an R&D questionnaire.* ☐

Ⓗ CERTIFICATION OF OWNER/OPERATOR OR AUTHORIZED REPRESENTATIVE — I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Signature FALCON JET CORPORATION Date 2/28/91 Phone Number (201) 262-0800

Name (Print) J. Morgan Young Title Sr. Vice President Finance and Administration

Ⓘ POLICE AND FIRE DEPARTMENT — Enter the respective phone numbers, names and addresses (including Zip Code) of your local police and fire departments in the spaces below.

POLICE DEPT. Phone Number (201) 641-9100
Name Moonachie Police Department
Address 70 Moonachie Road
Municipality Moonachie, NJ Zip 07074

FIRE DEPT. Phone Number (201) 641-9100
Name Moonachie Fire Department
Address 115 Moonachie Road
Municipality Moonachie, NJ Zip 07074

Ⓙ FACILITY EMERGENCY CONTACT
Name Mr. Rudy Bioletti/Mr. Steve Komlo Title Director/Manager
Facility Phone Number (201) 262-0800 Emergency Contact Phone Number (201) 262-0800

NOTE: Make copies of this survey! The law requires that you send a copy to your COUNTY LEAD AGENCY, LOCAL EMERGENCY PLANNING COMMITTEE AND YOUR LOCAL POLICE AND FIRE DEPARTMENTS.
(County agency and local committee addresses in Instructions)

Return original to:
COMMUNITY RIGHT TO KNOW
CN405
Trenton, NJ 08625-0405

FOR INTERNAL USE ONLY STAT ☐ E ☐ F ☐

IMPORTANT! Read all instructions before completing. Photocopy this sheet, if you need additional forms. Please print or type all responses. Complete sections A-F before making photocopies of this page.

Reporting Period: January 1 - December 31, 1990

FACILITY IDENTIFICATION AND SITE LOCATION

A. NJEIN 3 3 6 5 5 5 0 0 0 0 0

C. Location Address 90 Moonachie Avenue

B. Facility Name Falcon Jet Hydraulic Shop/Warehouse Facility

D. City Teterboro, E. State NJ F. Zip 07608

	CHEMICAL DESCRIPTION	HAZARDS	Inventory (Ranges)	STORAGE CODES AND LOCATIONS
*	Substance RQ Waste Combustible Liquid NOS CAS No. NA - - DOT No. 1270 Substance No. (if available) 2851 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	(Codes for all that apply.) 70 , , , ,	(Enter Code) Max. Daily 12 Avg. Daily 11 Days Onsite 365 (Actual Number)	(Enter Codes, except Location(s); supply narrative.) Container 47 Conditions 04 , Location(s) Rear hazardous waste storage area; shop area
**	Substance RQ Waste Flammable Liquid NOS CAS No. NA - - DOT No. 1270 Substance No. (if available) 2851 Percent 59 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , , , ,	Max. Daily 12 Avg. Daily 10 Days Onsite 365 (Actual Number)	Container 47 Conditions 04 , Location(s) Rear hazardous waste storage area; shop area
	Substance Waste 1,1,1, Trichloroethane CAS No. NA - - DOT No. NA Substance No. (if available) 1237 Percent 54 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , , , ,	Max. Daily 13 Avg. Daily 11 Days Onsite 365 (Actual Number)	Container 47 Conditions 04 , Location(s) Rear hazardous waste storage area; shop area
***	Substance RQ Waste Combustible Liquid NOS CAS No. NA - - DOT No. 1270 Substance No. (if available) F001 Percent 57 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , , , ,	Max. Daily 12 Avg. Daily 9 Days Onsite 365 (Actual Number)	Container 47 Conditions 04 , Location(s) Rear hazardous waste storage area; shop area
	Substance RQ Waste Paint Related Material CAS No. NA - - DOT No. 1263 Substance No. (if available) F005 Percent 57 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , , , ,	Max. Daily 12 Avg. Daily 9 Days Onsite 365 (Actual Number)	Container 47 Conditions 04 , Location(s) Rear hazardous waste storage area; shop area
****	Substance RQ Waste Combustible Liquid NOS CAS No. NA - - DOT No. 1270 Substance No. (if available) 2851 Percent 57 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , , , ,	Max. Daily 13 Avg. Daily 9 Days Onsite 365 (Actual Number)	Container 47 Conditions 04 , Location(s) Rear hazardous waste storage area; shop area
	Substance CAS No. - - DOT No. Substance No. (if available) Percent (Code) State (Code) Trade Secret ☐ (Check if claiming)	, , , ,	Max. Daily Avg. Daily Days Onsite (Actual Number)	Container Conditions , Location(s)

See Instructions for codes.

*33% Perchloroethylene
13% Methylene Chloride

**4% Mineral Spirits
35% Trichloroethane 1,1,1
4% Toluene
4% MEK

***3% Trichloroethane 1,1,1

****10% Trichloroethane 1,1,1

IMPORTANT! Read all instructions before completing. Photocopy this sheet, if you need additional forms. Please print or type all responses. Complete sections A-F before making photocopies of this page.

Reporting Period: January 1 - December 31, 1990

FACILITY IDENTIFICATION AND SITE LOCATION

A. NJEIN 336550000000

B. Facility Name Falcon Jet Hydraulic Shop/ Warehouse Facility

C. Location Address 90 Moonachie Avenue

D. City Teterboro, E. State NJ F. Zip 07608

CHEMICAL DESCRIPTION	HAZARDS	Inventory (Ranges)	STORAGE CODES AND LOCATIONS
Substance Paint CAS No. --- DOT No. 1263 Substance No. (if available) 2628 Percent 61 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	(Codes for all that apply.) 70	(Enter Code) Max. Daily 12 Avg. Daily 12 Days Onsite 365 (Actual Number)	(Enter Codes, except Location(s); supply narrative.) Container 46 Conditions 01, 04 Location(s) Warehouse
Substance Thinner CAS No. --- DOT No. 1263 Substance No. (if available) 2627 Percent 61 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70	Max. Daily 12 Avg. Daily 12 Days Onsite 365 (Actual Number)	Container 46 Conditions 01, 04 Location(s) Warehouse
Substance Hardner, Activator, Catalyst CAS No. --- DOT No. 1993 Substance No. (if available) 2426 Percent 61 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70	Max. Daily 12 Avg. Daily 12 Days Onsite 365 (Actual Number)	Container 46 Conditions 01, 04 Location(s) Warehouse
Substance Adhesive/Sealant CAS No. --- DOT No. 1325 Substance No. (if available) 2429 Percent 61 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70	Max. Daily 11 Avg. Daily 11 Days Onsite 365 (Actual Number)	Container 46 Conditions 01, 04 Location(s) Warehouse
Substance Propane CAS No. --- DOT No. 1978 Substance No. (if available) 1594 Percent 60 (Code) State G (Code) Trade Secret ☐ (Check if claiming)	70	Max. Daily 13 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 40 Conditions 02, 04 Location(s) Warehouse
Substance Dilvant CAS No. --- DOT No. 1993 Substance No. (if available) 2426 Percent 61 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70	Max. Daily 11 Avg. Daily 11 Days Onsite 365 (Actual Number)	Container 4 Conditions 02, 04 Location(s) Warehouse
Substance CAS No. --- DOT No. Substance No. (if available) Percent (Code) State (Code) Trade Secret ☐ (Check if claiming)		Max. Daily Avg. Daily Days Onsite (Actual Number)	Container Conditions Location(s)

See Instructions for codes.

FalconJet®

February 26, 1991

Community Right To Know
CN 405
Trenton, NJ 08625-0405

SUBJECT: FALCON JET CORPORATION EPA #981491509

Dear Sir or Madam:

Enclosed please find Form DEQ-094, Community Right To Know Survey for 1990, which report has been completed and duly signed on behalf of the subject corporation.

Please feel free to contact the undersigned should you have any questions regarding the enclosures.

Very truly yours,

FALCON JET CORPORATION

By _____
Peter S. Rothwel
Associate Counsel

PSR:meh
Enclosure
585
Via Certified Mail #006253343, Return Receipt Requested.

cc: Moonachie Fire Department (w/copy of enclosure)
115 Moonachie Road
Moonachie, NJ 07074

Moonachie Police Department (w/copy of enclosure)
70 Moonachie Road
Moonachie, NJ 07074

RTK Coordinator (w/copy of enclosure)
Bergen County Department of Health Services
327 East Ridgewood Avenue
Paramus, NJ 07652

Hackensack City OEM (w/copy of enclosure)
Chief Ronald Freeman
205 State St.
Hackensack, NJ 07601

DEQ-094
10/90

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Let's protect our earth

COMMUNITY RIGHT TO KNOW SURVEY FOR 1990

to satisfy requirements under SARA, Title III, Section 312 and New Jersey Community Right to Know

NJEIN | SIC | COUNTY/MUNIC. | DUE DATE

PLACE LABEL HERE

Indicate changes to mailing address on label

Ⓐ FACILITY LOCATION
If the facility location or name is different than the mailing address on the label, enter location address or name below.
Facility Location #1 - EPA #981491509
Falcon Jet Service Center
114 Billy Diehl Road
Teterboro, NJ 07608
Check here if you would like your survey mailed to above address ☐

IMPORTANT: A separate survey must be completed for each facility.

Ⓑ Does this facility use, store or produce any compressed gases, or any flammable, combustible, reactive, corrosive or toxic substances?
(See Reportable Substances and Thresholds) ☒ Yes ☐ No

Ⓒ Briefly describe the nature of the operations or business conducted by your company at this facility: Maintenance and service of business jet aircraft; hangar and office space.

Ⓓ Number of employees at facility: 84

Ⓔ *Number of facilities in New Jersey* 2

Ⓕ *Dun and Bradstreet No.* 06 133 7663

Ⓖ *Check the box if you were granted a R&D exemption last year or if you have attached an R&D questionnaire.* ☐

Ⓗ CERTIFICATION OF OWNER/OPERATOR OR AUTHORIZED REPRESENTATIVE — I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Signature FALCON JET CORPORATION Date 2/26/89 Phone Number (201) 262-0800

Name (Print) J. Morgan Young Title Sr. Vice President Finance and Administration

Ⓘ POLICE AND FIRE DEPARTMENT — Enter the respective phone numbers, names and addresses (including Zip Code) of your local police and fire departments in the spaces below.

POLICE DEPT. Phone Number (201) 641-9100
Name Moonachie Police Department
Address 70 Moonachie Road
Municipality Moonachie, NJ Zip 07074

FIRE DEPT. Phone Number (201) 641-9100
Name Moonachie Fire Department
Address 115 Moonachie Road
Municipality Moonachie, NJ Zip 07074

Ⓙ FACILITY EMERGENCY CONTACT
Name Mr. Frank Youngkin Title Jet Center Manager
Facility Phone Number (201) 262-0800 Emergency Contact Phone Number (201) 262-0800

NOTE: Make copies of this survey! The law requires that you send a copy to your COUNTY LEAD AGENCY, LOCAL EMERGENCY PLANNING COMMITTEE AND YOUR LOCAL POLICE AND FIRE DEPARTMENTS.
(County agency and local committee addresses in Instructions)

Return original to:
COMMUNITY RIGHT TO KNOW
CN405
Trenton, NJ 08625-0405

FOR INTERNAL USE ONLY STAT ☐ E ☐ F ☐

IMPORTANT! Read all instructions before completing. Photocopy this sheet, if you need additional forms. Please print or type all responses. Complete sections A-F before making photocopies of this page.

Reporting Period: January 1 - December 31, 1990

FACILITY IDENTIFICATION AND SITE LOCATION

A. NJEIN 3 3 6 5 5 5 0 0 0 0 1

B. Facility Name Falcon Jet Service Center

C. Location Address 114 Billy Diehl Road

D. City Teterboro, E. State NJ F. Zip 07608

CHEMICAL DESCRIPTION (HAZARDOUS WASTE)	HAZARDS (Codes for all that apply.)	Inventory (Ranges) (Enter Code)	STORAGE CODES AND LOCATIONS (Enter Codes, except Location(s); supply narrative.)
Substance* RQ Waste Combustible Liquid NOS CAS No. NA - - DOT No. 1270 Substance No. (if available) 2850 Percent 61 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , , , , ,	Max. Daily 13 Avg. Daily 11 Days Onsite 365 (Actual Number)	Container 47 Conditions 04 , , Location(s) Corner of hangars; Rear Hazardous Waste Caged Area.
Substance** RQ Waste Combustible NOS CAS No. NA - - DOT No. 1270 Substance No. (if available) 2850 Percent 61 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , , , , ,	Max. Daily 13 Avg. Daily 11 Days Onsite 365 (Actual Number)	Container 47 Conditions 04 , , Location(s) Corner of hangars; Rear Hazardous Waste Caged Area.
Substance RQ Waste Combustible Liquid NOS CAS No. NA - - DOT No. 1270 Substance No. (if available) 2850 Percent 61 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , , , , ,	Max. Daily 13 Avg. Daily 11 Days Onsite 365 (Actual Number)	Container 47 Conditions 04 , , Location(s) Corner of hangars; Rear Hazardous Waste Caged Area.
Substance RQ Waste Combustible Liquid NOS CAS No. NA - - DOT No. 1270 Substance No. (if available) 2850 Percent 61 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , , , , ,	Max. Daily 13 Avg. Daily 11 Days Onsite 365 (Actual Number)	Container 47 Conditions 04 , , Location(s) Corner of hangars; Rear Hazardous Waste Caged Area.
Substance RQ Waste Combustible Liquid NOS CAS No. NA - - DOT No. 1270 Substance No. (if available) 2850 Percent 61 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , , , , ,	Max. Daily 13 Avg. Daily 11 Days Onsite 365 (Actual Number)	Container 47 Conditions 04 , , Location(s) Corner of hangars; Rear Hazardous Waste Caged Area.
Substance CAS No. - - DOT No. Substance No. (if available) Percent (Code) State (Code) Trade Secret ☐ (Check if claiming)	, , , , ,	Max. Daily Avg. Daily Days Onsite (Actual Number)	Container Conditions , , Location(s)
Substance CAS No. - - DOT No. Substance No. (if available) Percent (Code) State (Code) Trade Secret ☐ (Check if claiming)	, , , , ,	Max. Daily Avg. Daily Days Onsite (Actual Number)	Container Conditions , , Location(s)

See Instructions for codes.

*Methyl Ethyl Ketone
38% Jet Fuel

**Methyl Ethel Ketone
38% Jet Fuel

IMPORTANT! Read all instructions before completing. Photocopy this sheet, if you need additional forms. Please print or type all responses. Complete sections A-F before making photocopies of this page.

Reporting Period: January 1 - December 31, 1990

FACILITY IDENTIFICATION AND SITE LOCATION

A. NJEIN 336555000001

B. Facility Name Falcon Jet Service Center

C. Location Address 114 Billy Diehl Road

D. City Teterboro, E. State NJ F. Zip 07608

CHEMICAL DESCRIPTION	HAZARDS	Inventory (Ranges)	STORAGE CODES AND LOCATIONS
Substance Antifreeze CAS No. ___-___-___ DOT No. 1142 Substance No. (if available) 2131 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	(Codes for all that apply.) 70 , , , ,	(Enter Code) Max. Daily 11 Avg. Daily 11 Days Onsite 365 (Actual Number)	(Enter Codes, except Location(s); supply narrative.) Container 46 Conditions a , 04 Location(s) Line Service area
Substance Inks CAS No. ___-___-___ DOT No. 2867 Substance No. (if available) 2484 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , , , ,	Max. Daily 09 Avg. Daily 09 Days Onsite 365 (Actual Number)	Container 46 (Aerosal Can) Conditions 02 , 04 Location(s) Stock room
Substance Paints CAS No. ___-___-___ DOT No. 1263 Substance No. (if available) 2628 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , , , ,	Max. Daily 12 Avg. Daily 12 Days Onsite 365 (Actual Number)	Container 46 Can) (Aerosal Conditions 02 , 01,04 Location(s) Paint shack
Substance Petroleum Oil CAS No. ___-___-___ DOT No. 1270 Substance No. (if available) 2651 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , , , ,	Max. Daily 13 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 46 Conditions 01 , 04 Location(s) Line shack area
Substance CAS No. ___-___-___ DOT No. Substance No. (if available) Percent (Code) State (Code) Trade Secret ☐ (Check if claiming)	, , , ,	Max. Daily Avg. Daily Days Onsite (Actual Number)	Container Conditions , Location(s)
Substance CAS No. ___-___-___ DOT No. Substance No. (if available) Percent (Code) State (Code) Trade Secret ☐ (Check if claiming)	, , , ,	Max. Daily Avg. Daily Days Onsite (Actual Number)	Container Conditions , Location(s)
Substance CAS No. ___-___-___ DOT No. Substance No. (if available) Percent (Code) State (Code) Trade Secret ☐ (Check if claiming)	, , , ,	Max. Daily Avg. Daily Days Onsite (Actual Number)	Container Conditions , Location(s)

See Instructions for codes.

IMPORTANT! Read all instructions before completing. Photocopy this sheet, if you need additional forms. Please print or type all responses. Complete sections A-F before making photocopies of this page.

Reporting Period: January 1 - December 31, 1990

FACILITY IDENTIFICATION AND SITE LOCATION

A. NJEIN 3 3 6 5 5 5 0 0 0 0 1

B. Facility Name Falcon Jet Service Center

C. Location Address 114 Billy Diehl Road

D. City Teterboro, E. State NJ F. Zip 07608

CHEMICAL DESCRIPTION	HAZARDS	Inventory (Ranges)	STORAGE CODES AND LOCATIONS
Substance Abso-lute Sealing Compound CAS No. ___-___-___ DOT No. 1270 Substance No. (if available) 2651 Percent 61 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	(Codes for all that apply.) 70 , ___ , ___ , ___ , ___	(Enter Code) Max. Daily 10 Avg. Daily 10 Days Onsite 365 (Actual Number)	(Enter Codes, except Location(s); supply narrative.) Container 46 Conditions 01 , ___ Location(s) Stock room
Substance Acetone CAS No. 67 - 64 - 1 DOT No. 1090 Substance No. (if available) 0006 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , ___ , ___ , ___ , ___	Max. Daily 10 Avg. Daily 10 Days Onsite 365 (Actual Number)	Container 46 Conditions 01 , ___ Location(s) Paint storage room
Substance Adhesive System Epoxy 907 CAS No. ___-___-___ DOT No. 1270 Substance No. (if available) 2651 Percent 61 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 ___ , ___ , ___ , ___ , ___	Max. Daily 10 Avg. Daily 10 Days Onsite 365 (Actual Number)	Container 34 Tubes Conditions 01 , ___ Location(s) Stock room
Substance Aerolex Dry Moly Lubricant CAS No. ___-___-___ DOT No. 1270 Substance No. (if available) 2651 Percent 61 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , ___ , ___ , ___ , ___	Max. Daily 10 Avg. Daily 10 Days Onsite 365 (Actual Number)	Spray Container 34 Cans Conditions 01 , ___ Location(s) Stock room
Substance Aeroshell Reyco 64 CAS No. ___-___-___ DOT No 1270 Substance No. (if available) 2651 Percent 61 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , ___ , ___ , ___ , ___	Max. Daily 10 Avg. Daily 10 Days Onsite 365 (Actual Number)	Cartridges Container 34 Conditions 01 , ___ Location(s) Stock room
Substance Alcohol CAS No. ___-___-___ DOT No. 1170 Substance No. (if available) 2079 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , ___ , ___ , ___ , ___	Max. Daily 12 Avg. Daily 12 Days Onsite 365 (Actual Number)	Container 46 Conditions 01 , ___ Location(s) Paint storage room
Substance Alumigrip Primer CAS No. ___-___-___ DOT No. 1993 Substance No. (if available) 2784 Percent 61 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , ___ , ___ , ___ , ___	Max. Daily 11 Avg. Daily 11 Days Onsite 365 (Actual Number)	Container 46 Conditions 01 , ___ Location(s) Paint storage room

See Instructions for codes.

IMPORTANT! Read all instructions before completing. Photocopy this sheet, if you need additional forms. Please print or type all responses. Complete sections A-F before making photocopies of this page.

Reporting Period: January 1 - December 31, 1990

FACILITY IDENTIFICATION AND SITE LOCATION

A. NJEIN 3 3 6 5 5 5 0 0 0 0 1

B. Facility Name Falcon Jet Service Center

C. Location Address 114 Billy Diehl Road

D. City Teterboro, E. State NJ F. Zip 07608

CHEMICAL DESCRIPTION	HAZARDS	Inventory (Ranges)	STORAGE CODES AND LOCATIONS
Substance Alumiprep CAS No. ___-___-___ DOT No. 1993 Substance No. (if available) 2784 Percent 61 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	(Codes for all that apply.) 70 , , , , ,	(Enter Code) Max. Daily 12 Avg. Daily 12 Days Onsite 365 (Actual Number)	(Enter Codes, except Location(s); supply narrative.) Container 46 Conditions 01 , , Location(s) Stock room
Substance Argon Rare Gas CAS No. 7440 - 37 - 1 DOT No. 1006 Substance No. (if available) 0151 Percent 60 (Code) State G (Code) Trade Secret ☐ (Check if claiming)	70 69 , , , ,	Max. Daily 11 Avg. Daily 11 Days Onsite 365 (Actual Number)	Container 40 Conditions 02 , , Location(s) Storage room
Substance CB A-236 Paint Stripper CAS No. ___-___-___ DOT No. 1993 Substance No. (if available) 2784 Percent 61 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , , , , ,	Max. Daily 11 Avg. Daily 11 Days Onsite 365 (Actual Number)	Container 38 Conditions 01 , , Location(s) Paint storage room
Substance CB R 66C Cleaner/Corrosion Remover CAS No. ___-___-___ DOT No. 1993 Substance No. (if available) 2784 Percent 61 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , , , , ,	Max. Daily 11 Avg. Daily 11 Days Onsite 365 (Actual Number)	Container 38 Conditions 01 , , Location(s) Stock room
Substance Click Patch Fast Set Epoxy CAS No. ___-___-___ DOT No. 1270 Substance No. (if available) 2651 Percent 61 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , , , , ,	Max. Daily 11 Avg. Daily 11 Days Onsite 365 (Actual Number)	Container 42 Conditions 01 , , Location(s) Stock room
Substance De-ice Fluid Ducar 2 CAS No. ___-___-___ DOT No. 1987 Substance No. (if available) 2079 Percent 61 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , , , , ,	Max. Daily 13 Avg. Daily 12 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 , , Location(s) Storage Area
Substance CAS No. ___-___-___ DOT No. ___ Substance No. (if available) Percent ___ (Code) State ___ (Code) Trade Secret ☐ (Check if claiming)	, , , , ,	Max. Daily ___ Avg. Daily ___ Days Onsite ___ (Actual Number)	Container ___ Conditions , , Location(s)

See Instructions for codes.

IMPORTANT! Read all instructions before completing. Photocopy this sheet, if you need additional forms. Please print or type all responses. Complete sections A-F before making photocopies of this page.

Reporting Period: January 1 - December 31, 1990

FACILITY IDENTIFICATION AND SITE LOCATION

A. NJEIN 3 3 6 5 5 5 0 0 0 0 1

B. Facility Name Falcon Jet Service Center

C. Location Address 114 Billy Diehl Road

D. City Tetergoro, E. State NJ F. Zip 07608

CHEMICAL DESCRIPTION	HAZARDS	Inventory (Ranges)	STORAGE CODES AND LOCATIONS
Substance DeSoto Curing Solution CAS No. ___-___-___ DOT No. 1993 Substance No. (if available) 2784 Percent 61 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	(Codes for all that apply.) 70 , , , , ,	(Enter Code) Max. Daily 10 Avg. Daily 10 Days Onsite 365 (Actual Number)	(Enter Codes, except Location(s); supply narrative.) Container 46 Conditions 01 , , Location(s) Stock room
Substance DeSoto Modified Epoxy CAS No. ___-___-___ DOT No. 1270 Substance No. (if available) 2651 Percent 61 (Code) State S (Code) Trade Secret ☐ (Check if claiming)	70 , , , , ,	Max. Daily 10 Avg. Daily 10 Days Onsite 365 (Actual Number)	Container 46 Conditions 01 , , Location(s) Paint storage room
Substance DeSoto Radome Coating CAS No. ___-___-___ DOT No. ___ Substance No. (if available) 2628 Percent 61 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , , , , ,	Max. Daily 10 Avg. Daily 10 Days Onsite 365 (Actual Number)	Container 46 Conditions 01 , , Location(s) Paint storage room
Substance Dow Corning High Vacuum Grease CAS No. ___-___-___ DOT No. 1270 Substance No. (if available) 2651 Percent 61 (Code) State S (Code) Trade Secret ☐ (Check if claiming)	70 , , , , ,	Max. Daily 10 Avg. Daily 10 Days Onsite 365 (Actual Number)	Container 34 Tubes Conditions 01 , , Location(s) Stock room
Substance Dow Corning Sealant CAS No. ___-___-___ DOT No. 1270 Substance No. (if available) 2651 Percent 61 (Code) State S (Code) Trade Secret ☐ (Check if claiming)	70 , , , , ,	Max. Daily 10 Avg. Daily 10 Days Onsite 365 (Actual Number)	Container 34 Tubes Conditions 01 , , Location(s) Stock room
Substance Dow Corning Heat Resistant Sealant CAS No. ___-___-___ DOT No. 1270 Substance No. (if available) 2651 Percent 61 (Code) State S (Code) Trade Secret ☐ (Check if claiming)	70 , , , , ,	Max. Daily 10 Avg. Daily 10 Days Onsite 365 (Actual Number)	Container 34 Tubes Conditions 01 , , Location(s) Stock room
Substance Dow Corning RTV Adhesive/Sealant CAS No. ___-___-___ DOT No. 1270 Substance No. (if available) 2651 Percent 61 (Code) State S (Code) Trade Secret ☐ (Check if claiming)	70 , , , , ,	Max. Daily 10 Avg. Daily 10 Days Onsite 365 (Actual Number)	Container 34 Tubes Conditions 01 , , Location(s) Stock room

See Instructions for codes.

IMPORTANT! Read all instructions before completing. Photocopy this sheet, if you need additional forms. Please print or type all responses. Complete sections A-F before making photocopies of this page.

Reporting Period: January 1 - December 31, 1990

FACILITY IDENTIFICATION AND SITE LOCATION

A. NJEIN 3 3 6 5 5 5 0 0 0 0 1

B. Facility Name Falcon Jet Service Center

C. Location Address 114 Billy Diehl Road

D. City Teterboro, E. State NJ F. Zip 07608

CHEMICAL DESCRIPTION	HAZARDS	Inventory (Ranges)	STORAGE CODES AND LOCATIONS
Substance Fel-Pro Anti-Seize Lubricant CAS No. ___-___-___ DOT No. 1270 Substance No. (if available) 2651 Percent 61 (Code) State S (Code) Trade Secret ☐ (Check if claiming)	(Codes for all that apply.) 70 , , , ,	(Enter Code) Max. Daily 10 Avg. Daily 10 Days Onsite 365 (Actual Number)	(Enter Codes, except Location(s); supply narrative.) Container 46 Conditions 01 , 04 Location(s) Stock room
Substance Gear Lube SAE 140 CAS No. ___-___-___ DOT No. 1270 Substance No. (if available) 2651 Percent 61 (Code) State ___ (Code) Trade Secret ☐ (Check if claiming)	70 , , , ,	Max. Daily 11 Avg. Daily 11 Days Onsite 365 (Actual Number)	Container 46 Conditions 01 04 Location(s) Stock room
Substance Hardman Epoxy Adhesive 1325 CAS No. ___-___-___ DOT No. ___ Substance No. (if available) 2429 Percent 61 (Code) State S (Code) Trade Secret ☐ (Check if claiming)	70 , , , ,	Max. Daily 10 Avg. Daily 10 Days Onsite 365 (Actual Number)	Container Plastic 34 Packages Conditions 01 , 04 Location(s) Stock room
Substance Hylomar PL32 Heavy CAS No. ___-___-___ DOT No. 1325 Substance No. (if available) 2429 Percent 61 (Code) State S (Code) Trade Secret ☐ (Check if claiming)	70 , , , ,	Max. Daily 10 Avg. Daily 10 Days Onsite 365 (Actual Number)	Container 34 Tubes Conditions 01 , 04 Location(s) ~~Stock room~~
Substance Hylomar Medium CAS No. ___-___-___ DOT No. 1325 Substance No. (if available) 2429 Percent 61 (Code) State S (Code) Trade Secret ☐ (Check if claiming)	70 , , , ,	Max. Daily 10 Avg. Daily 10 Days Onsite 365 (Actual Number)	Container 34 Tubes Conditions 01 , 04 Location(s) Stock room
Substance Kano Labs Kroll CAS No. ___-___-___ DOT No. 1325 Substance No. (if available) 2429 Percent 61 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , , , ,	Max. Daily 10 Avg. Daily 10 Days Onsite 365 (Actual Number)	Container 46 Conditions 01 , 04 Location(s) Stock room
Substance Loquic Primer CAS No. ___-___-___ DOT No. ___ Substance No. (if available) 2628 Percent 61 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , , , ,	Max. Daily 10 Avg. Daily 10 Days Onsite 365 (Actual Number)	Container Spray 46 Cans Conditions 01 04 Location(s) Paint storage room

See Instructions for codes.

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Reporting Period: January 1 - December 31, 1990

FACILITY IDENTIFICATION AND SITE LOCATION

A. NJEIN 3 3 6 5 5 5 0 0 0 0 1

B. Facility Name Falcon Jet Service Center

C. Location Address 114 Billy Diehl Road

D. City Teterboro E. State NJ F. Zip 07608

CHEMICAL DESCRIPTION	HAZARDS	Inventory (Ranges)	STORAGE CODES AND LOCATIONS
Substance Loctite Detaining Compound CAS No. ___-___-___ DOT No. 1325 Substance No. (if available) 2429 Percent 61 (Code) State S (Code) Trade Secret ☐ (Check if claiming)	(Codes for all that apply.) 70 , ___ , ___ , ___ , ___	(Enter Code) Max. Daily 10 Avg. Daily 10 Days Onsite 365 (Actual Number)	(Enter Codes, except Location(s); supply narrative.) Container 38 Conditions 01 , ___ Location(s) Stock room
Substance Magnaflux Cleaner/Remover CAS No. ___-___-___ DOT No. 1325 Substance No. (if available) 2429 Percent 61 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , ___ , ___ , ___ , ___	Max. Daily 11 Avg. Daily 11 Days Onsite 365 (Actual Number)	12 oz. Container 46 Cans Conditions 01 , 04 Location(s) Stock room
Substance Magnaflux Spot Check Penetrant CAS No. ___-___-___ DOT No. 1325 Substance No. (if available) 2429 Percent 61 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , ___ , ___ , ___ , ___	Max. Daily 11 Avg. Daily 11 Days Onsite 365 (Actual Number)	12 oz. Container 46 Cans Conditions 01 , 04 Location(s) Stock room
Substance Met-al Aluminum Polish CAS No. ___-___-___ DOT No. 1325 Substance No. (if available) 2429 Percent 61 (Code) State S (Code) Trade Secret ☐ (Check if claiming)	70 , ___ , ___ , ___ , ___	Max. Daily 11 Avg. Daily 11 Days Onsite 365 (Actual Number)	Container 46 Conditions 01 , 04 Location(s) Stock room
Substance Miller Stephenson Cleaner CAS No. ___-___-___ DOT No. 1325 Substance No. (if available) 2429 Percent 61 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , ___ , ___ , ___ , ___	Max. Daily 11 Avg. Daily 11 Days Onsite 365 (Actual Number)	Container 46 Conditions 01 , 04 Location(s) Stock room
Substance Nitrogen CAS No. 7727-37-9 DOT No. 1066 Substance No. (if available) 1375 Percent ___ (Code) State G (Code) Trade Secret ☐ (Check if claiming)	70 , ___ , ___ , ___ , ___	Max. Daily 11 Avg. Daily 11 Days Onsite 365 (Actual Number)	Container 40 Conditions 02 , 04 Location(s) Storage room
Substance Magnaflux Zyglo Developer CAS No. ___-___-___ DOT No. 1325 Substance No. (if available) 2429 Percent 61 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , ___ , ___ , ___ , ___	Max. Daily 11 Avg. Daily 11 Days Onsite 365 (Actual Number)	Container 46oz cc Conditions 01 , 04 Location(s) Stock room

See Instructions for codes.

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Reporting Period: January 1 - December 31, 1990

FACILITY IDENTIFICATION AND SITE LOCATION

A. NJEIN 3 3 6 5 5 5 0 0 0 0 1

B. Facility Name Falcon Jet Service Center

C. Location Address 114 Billy Diehl Road

D. City Teterboro, E. State NJ F. Zip 07608

CHEMICAL DESCRIPTION	HAZARDS	Inventory (Ranges)	STORAGE CODES AND LOCATIONS
Substance Oxygen CAS No. 7782 - 44 - 7 DOT No. 1072 Substance No. (if available) 1448 Percent 60 (Code) State G (Code) Trade Secret ☐ (Check if claiming)	(Codes for all that apply.) 70 , , , , ,	(Enter Code) Max. Daily 11 Avg. Daily 11 Days Onsite 365 (Actual Number)	(Enter Codes, except Location(s); supply narrative.) Container 40 Conditions 02 , 04 Location(s) Storage room
Substance Permatex Hydraulic Jack Oil CAS No. - - DOT No. 1270 Substance No. (if available) 2651 Percent 61 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , , , , ,	Max. Daily 11 Avg. Daily 11 Days Onsite 365 (Actual Number)	Container 46 Conditions 01 , 04 Location(s) Stock room
Substance Polyester Resin CAS No. - - DOT No. 1270 Substance No. (if available) 2651 Percent 61 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , , , , ,	Max. Daily 11 Avg. Daily 11 Days Onsite 365 (Actual Number)	Container 46 Conditions 01 , 04 Location(s) Stock room
Substance Prep-Sol Solvent CAS No. - - DOT No. 1993 Substance No. (if available) 2784 Percent 61 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , , , , ,	Max. Daily 10 Avg. Daily 10 Days Onsite 365 (Actual Number)	Container 46 Conditions 01 , 04 Location(s) Paint storage room
Substance Prist CAS No. - - DOT No. 1993 Substance No. (if available) 2784 Percent 64 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , , , , ,	Max. Daily 12 Avg. Daily 12 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 , 04 Location(s) Storage room
Substance Propane CAS No. 74 - 98 - 6 DOT No. 1978 Substance No. (if available) 1594 Percent 61 (Code) State G (Code) Trade Secret ☐ (Check if claiming)	70 , , , , ,	Max. Daily 12 Avg. Daily 12 Days Onsite 365 (Actual Number)	Container 40 Conditions 02 , 04 Location(s) Storage room
Substance Randulph Products Dilvent CAS No. - - DOT No. 1993 Substance No. (if available) 2784 Percent G (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , , , , ,	Max. Daily 10 Avg. Daily 10 Days Onsite 365 (Actual Number)	Container 39 Conditions 01 , 04 Location(s) Stock room

See Instructions for codes.

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Reporting Period: January 1 - December 31, 1990

FACILITY IDENTIFICATION AND SITE LOCATION

A. NJEIN 336550000 1

B. Facility Name Falcon Jet Service Center

C. Location Address 114 Billy Diehl Road

D. City Teterboro E. State NJ F. Zip 07608

CHEMICAL DESCRIPTION	HAZARDS	Inventory (Ranges)	STORAGE CODES AND LOCATIONS
Substance Royco Grease CAS No. --- DOT No. 1325 Substance No. (if available) 2429 Percent 61 (Code) State S (Code) Trade Secret ☐ (Check if claiming)	(Codes for all that apply.) 70 , , , ,	(Enter Code) Max. Daily 12 Avg. Daily 12 Days Onsite 365 (Actual Number)	(Enter Codes, except Location(s); supply narrative.) Container 46 Conditions 01 , 04 Location(s) Stock room
Substance Royco Graphite/Petroleum CAS No. --- DOT No. 1325 Substance No. (if available) 2429 Percent 61 (Code) State S (Code) Trade Secret ☐ (Check if claiming)	70 , , , ,	Max. Daily 12 Avg. Daily 12 Days Onsite 365 (Actual Number)	Container 46 Conditions 01 , 04 Location(s) Stock room
Substance Royco Molybdenum Disulfite Lube CAS No. --- DOT No. 1325 Substance No. (if available) 2429 Percent 61 (Code) State S (Code) Trade Secret ☐ (Check if claiming)	70 , , , ,	Max. Daily 11 Avg. Daily 11 Days Onsite 365 (Actual Number)	Container 46 Conditions 01 , 04 Location(s) Stock room
Substance Rubber Adhesive CAS No. --- DOT No. 1325 Substance No. (if available) 2429 Percent 61 (Code) State S (Code) Trade Secret ☐ (Check if claiming)	70 , , , ,	Max. Daily 11 Avg. Daily 11 Days Onsite (Actual Number)	Container 34 Tubes Conditions 01 , 04 Location(s) Stock room
Substance Sealube-Anti seize Compound CAS No. --- DOT No. 1325 Substance No. (if available) 2429 Percent 61 (Code) State S (Code) Trade Secret ☐ (Check if claiming)	70 , , , ,	Max. Daily 11 Avg. Daily 11 Days Onsite 365 (Actual Number)	Container 46 Conditions 01 , 04 Location(s) Stock room
Substance Silicone Rubber Sealant CAS No. --- DOT No. 1325 Substance No. (if available) 2429 Percent 61 (Code) State S (Code) Trade Secret ☐ (Check if claiming)	70 , , , ,	Max. Daily 11 Avg. Daily 11 Days Onsite 365 (Actual Number)	Container 34 Tubes Conditions 01 , 04 Location(s) Stock room
Substance Ultra Chem Assembly Fluid CAS No. --- DOT No. 1325 Substance No. (if available) 2429 Percent 61 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , , , ,	Max. Daily 10 Avg. Daily 10 Days Onsite 365 (Actual Number)	Container 34 Tubes Conditions 01 , 04 Location(s) Stock room

See Instructions for codes.

IMPORTANT! Read all instructions before completing. Photocopy this sheet, if you need additional forms. Please print or type all responses. Complete sections A-F before making photocopies of this page.

Reporting Period: January 1 - December 31, 1990

FACILITY IDENTIFICATION AND SITE LOCATION

A. NJEIN 3 3 6 5 5 5 0 0 0 0 1

B. Facility Name Falcon Jet Service Center

C. Location Address 114 Billy Diehl Road

D. City Teterboro E. State NJ F. Zip 07608

CHEMICAL DESCRIPTION	HAZARDS	Inventory (Ranges)	STORAGE CODES AND LOCATIONS
Substance 3M Scotcheal Edge Sealer CAS No. ___-___-___ DOT No. 1325 Substance No. (if available) 2429 Percent 61 (Code) State S (Code) Trade Secret ☐ (Check if claiming)	(Codes for all that apply.) 70 , ___ , ___ , ___ , ___	(Enter Code) Max. Daily 10 Avg. Daily 10 Days Onsite 365 (Actual Number)	(Enter Codes, except Location(s); supply narrative.) Container 46 Conditions 01 , 04 Location(s) Stock room
Substance Gas Path Cleaner CAS No. 8008 - 20 - 6 DOT No. 1223 Substance No. (if available) 1091 Percent 61 (Code) State L (Code) Trade Secret ☐ (Check if claiming)	70 , ___ , ___ , ___ , ___	Max. Daily 12 Avg. Daily 12 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 , 04 Location(s) Storage room
Substance ___ CAS No. ___-___-___ DOT No. ___ Substance No. (if available) ___ Percent ___ (Code) State ___ (Code) Trade Secret ☐ (Check if claiming)	___ , ___ , ___ , ___ , ___	Max. Daily ___ Avg. Daily ___ Days Onsite ___ (Actual Number)	Container ___ Conditions ___ , ___ Location(s) ___
Substance ___ CAS No. ___-___-___ DOT No. ___ Substance No. (if available) ___ Percent ___ (Code) State ___ (Code) Trade Secret ☐ (Check if claiming)	___ , ___ , ___ , ___ , ___	Max. Daily ___ Avg. Daily ___ Days Onsite ___ (Actual Number)	Container ___ Conditions ___ , ___ Location(s) ___
Substance ___ CAS No. ___-___-___ DOT No. ___ Substance No. (if available) ___ Percent ___ (Code) State ___ (Code) Trade Secret ☐ (Check if claiming)	___ , ___ , ___ , ___ , ___	Max. Daily ___ Avg. Daily ___ Days Onsite ___ (Actual Number)	Container ___ Conditions ___ , ___ Location(s) ___
Substance ___ CAS No. ___-___-___ DOT No. ___ Substance No. (if available) ___ Percent ___ (Code) State ___ (Code) Trade Secret ☐ (Check if claiming)	___ , ___ , ___ , ___ , ___	Max. Daily ___ Avg. Daily ___ Days Onsite ___ (Actual Number)	Container ___ Conditions ___ , ___ Location(s) ___
Substance ___ CAS No. ___-___-___ DOT No. ___ Substance No. (if available) ___ Percent ___ (Code) State ___ (Code) Trade Secret ☐ (Check if claiming)	___ , ___ , ___ , ___ , ___	Max. Daily ___ Avg. Daily ___ Days Onsite ___ (Actual Number)	Container ___ Conditions ___ , ___ Location(s) ___

See Instructions for codes.

Form Approved OMB No.: 2070-0093
Approval Expires: 01/91

(Important: Type or print; read instructions before completing form.)

EPA U.S. Environmental Protection Agency

TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act

EPA FORM **R**

PART I. FACILITY IDENTIFICATION INFORMATION

(This space for your optional use.)

Public reporting burden for this collection of information is estimated to vary from 30 to 34 hours per response, with an average of 32 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch (PM-223), US EPA, 401 M St., SW, Washington, D.C. 20460 Attn: TRI Burden and to the Office of Information and Regulatory Affairs, Office of Management and Budget Paperwork Reduction Project (2070-0093), Washington, D.C. 20603.

1. 1.1 Are you claiming the chemical identity on page 3 trade secret? [ ] Yes (Answer question 1.2; Attach substantiation forms.) [x] No (Do not answer 1.2; Go to question 1.3.)

1.2 If "Yes" in 1.1, is this copy: [ ] Sanitized [x] Unsanitized

1.3 Reporting Year 19 88

2. CERTIFICATION (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official
J. Morgan Young, Sr. VP, Finance and Administration

Signature: [signature]

Date signed: 9/28/89

9/24/89

3. FACILITY IDENTIFICATION

3.1
Facility or Establishment Name: Falcon Jet Corporation
Street Address: Teterboro Airport
City: Teterboro
County: Bergen
State: New Jersey
Zip Code: 07608

WHERE TO SEND COMPLETED FORMS:

1. U.S. ENVIRONMENTAL PROTECTION AGENCY
P.O. BOX 70266
WASHINGTON, DC 20024-0266
ATTN: TOXIC CHEMICAL RELEASE INVENTORY
2. APPROPRIATE STATE OFFICE (See instructions Appendix E)

3.2 This report contains information for (Check one): a. [x] An entire facility b. [ ] Part of a facility.

3.3 Technical Contact: George Rege — Telephone Number (include area code): 201-288-5300 x8135

3.4 Public Contact: Peter Rothwell — Telephone Number (include area code): 201-288-5300 x8051

3.5 SIC Code (4 digit): a. 3721 b. c. d. e. f.

3.6

Latitude			Longitude		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
40	51	0 N	74	04	0 W

3.7 Dun & Bradstreet Number(s): a. 061337663 b.

3.8 EPA Identification Number(s) (RCRA I.D. No.): a. NJD 134869551 b.

3.9 NPDES Permit Number(s): a. N/A b.

3.10 Receiving Streams or Water Bodies (enter one name per box): a. N/A b. c. d. e. f.

3.11 Underground Injection Well Code (UIC) Identification Number(s): a. N/A b.

4. PARENT COMPANY INFORMATION

4.1 Name of Parent Company: Avions Marcel Dassault - Breguet Aviation

4.2 Parent Company's Dun & Bradstreet Number: N/A

(Important: Type or print; read instructions before completing form.)

EPA

EPA FORM R

PART II. OFF-SITE LOCATIONS TO WHICH TOXIC CHEMICALS ARE TRANSFERRED IN WASTES

(This space for your optional use.)

1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

1.1 POTW name		1.2 POTW name	
N/A			
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip

2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

2.1 Off-site location name		2.2 Off-site location name	
Safety-Kleen Corporation			
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
NJD 990720658			
Street Address		Street Address	
1200 Sylvan St.			
City	County	City	County
Linden	Hudson		
State	Zip	State	Zip
NJ	07036		
Is location under control of reporting facility or parent company?		Is location under control of reporting facility or parent company?	
[ ] Yes [X] No		[ ] Yes [ ] No	

2.3 Off-site location name		2.4 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company?		Is location under control of reporting facility or parent company?	
[ ] Yes [ ] No		[ ] Yes [ ] No	

2.5 Off-site location name		2.6 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company?		Is location under control of reporting facility or parent company?	
[ ] Yes [ ] No		[ ] Yes [ ] No	

[ ] Check if additional pages of Part II are attached. How many? _____

EPA

EPA FORM R

PART III. CHEMICAL-SPECIFIC INFORMATION

(This space for your optional use.)

1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)

1.1 [Reserved]

1.2 CAS Number (Enter the number exactly as it appears on the 313 list. Enter NA if reporting a chemical category.)
71-43-2

1.3 Chemical or Chemical Category Name (Enter the name exactly as it appears on the 313 list.)
Benzene

1.4 Generic Chemical Name (Complete only if Part I, Section 1.1 is checked "Yes." Generic name must be structurally descriptive.)

2. MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)

Generic Chemical Name Provided by Supplier (Limit the name to a maximum of 70 characters (e.g., numbers, letters, spaces, punctuation).)

3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)

3.1	Manufacture the chemical:	a. [ ] Produce	b. [ ] Import	If produce or import: c. [ ] For on-site use/processing	e. [ ] As a byproduct	d. [ ] For sale/ distribution; f. [ ] As an impurity
3.2	Process the chemical:	a. [ ] As a reactant	d. [ ] Repackaging only	b. [ ] As a formulation component		c. [ ] As an article component
3.3	Otherwise use the chemical:	a. [ ] As a chemical processing aid		b. [ ] As a manufacturing aid		c. [ ] Ancillary or other use

4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

[ ] (enter code)

5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

1.5 m gal x 6.7 #/gal x ~~36~~ .00008

You may report releases of less than 1,000 lbs. by checking ranges under A.1. (Do not use both A.1 and A.2)

		A. Total Release (lbs/yr) A.1 Reporting Ranges 0	1–499	500–999	A.2 Enter Estimate	B. Basis of Estimate (enter code)	C. % From Stormwater
5.1 Fugitive or non-point air emissions	5.1a	[ ]	[ ]	[x]	804 ~~804,000~~	5.1b [ ]	
5.2 Stack or point air emissions	5.2a	[ ]	[ ]	[x]		5.2b [ ]	
5.3 Discharges to receiving streams or water bodies 5.3.1 [ ]	5.3.1a	[ ]	[ ]	[ ]	N/A	5.3.1b [ ]	5.3.1c
(Enter letter code from Part I Section 3.10 for stream(s) in the box provided.) 5.3.2 [ ]	5.3.2a	[ ]	[ ]	[ ]		5.3.2b [ ]	5.3.2c
5.3.3 [ ]	5.3.3a	[ ]	[ ]	[ ]		5.3.3b [ ]	5.3.3c
5.4 Underground injection	5.4a	[ ]	[ ]	[ ]	N/A	5.4b [ ]	
5.5 Releases to land							
5.5.1 On-site landfill	5.5.1a	[ ]	[ ]	[ ]	N/A	5.5.1b [ ]	
5.5.2 Land treatment/application farming	5.5.2a	[ ]	[ ]	[ ]	N/A	5.5.2b [ ]	
5.5.3 Surface impoundment	5.5.3a	[ ]	[ ]	[ ]	N/A	5.5.3b [ ]	
5.5.4 Other disposal	5.5.4a	[ ]	[ ]	[ ]	N/A	5.5.4b [ ]	

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

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PART III. CHEMICAL-SPECIFIC INFORMATION (continued)

(This space for your optional use.)

6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

You may report transfers of less than 1,000 lbs. by checking ranges under A.1. (Do not use both A.1 and A.2)

	A. Total Transfers (lbs/yr)		B. Basis of Estimate	C. Type of Treatment/ Disposal
	A.1 Reporting Ranges (0 / 1-499 / 500-999)	A.2 Enter Estimate	(enter code)	(enter code)
6.1.1 Discharge to POTW (enter location number from Part II, Section 1.) 1 .	[ ] [ ] [ ]	1	6.1.1b 0	
6.2.1 Other off-site location (enter location number from Part II, Section 2.) 2 .	[ ] [ ] [ ]	N/A	6.2.1b	6.2.1c M
6.2.2 Other off-site location (enter location number from Part II, Section 2.) 2 .	[ ] [ ] [ ]	N/A	6.2.2b	6.2.2c M
6.2.3 Other off-site location (enter location number from Part II, Section 2.) 2 .	[ ] [ ] [ ]		6.2.3b	6.2.3c M

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

7. WASTE TREATMENT METHODS AND EFFICIENCY

A. General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes / No
7.1a	7.1b	7.1c	7.1d [ ]	7.1e %	7.1f [ ] [ ]
7.2a	7.2b	7.2c	7.2d [ ]	7.2e %	7.2f [ ] [ ]
7.3a	7.3b	7.3c	7.3d [ ]	7.3e %	7.3f [ ] [ ]
7.4a	7.4b	7.4c	7.4d [ ]	7.4e %	7.4f [ ] [ ]
7.5a	7.5b	7.5c	7.5d [ ]	7.5e %	7.5f [ ] [ ]
7.6a	7.6b	7.6c	7.6d [ ]	7.6e %	7.6f [ ] [ ]
7.7a	7.7b	7.7c	7.7d [ ]	7.7e %	7.7f [ ] [ ]
7.8a	7.8b	7.8c	7.8d [ ]	7.8e %	7.8f [ ] [ ]
7.9a	7.9b	7.9c	7.9d [ ]	7.9e %	7.9f [ ] [ ]
7.10a	7.10b	7.10c	7.10d [ ]	7.10e %	7.10f [ ] [ ]

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

8. OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

A. Type of Modification (enter code)	B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal			C. Index	D. Reason for Action (enter code)
	Current reporting year (lbs/yr)	Prior year (lbs/yr)	Or percent change		
M			%	.	R

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PART IV. SUPPLEMENTAL INFORMATION

Use this section if you need additional space for answers to questions in Part III. Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11)

(This space for your optional use.)

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE (Part III, Section 5.3)

You may report releases of less than 1,000 lbs. by checking ranges under A.1. (Do not use both A.1 and A.2)	A. Total Release (lbs/yr)		B. Basis of Estimate (enter code in box provided)	
	A.1 Reporting Ranges 0 1–499 500–999	A.2 Enter Estimate		C.% From Stormwater
5.3 Discharges to receiving streams or water bodies 5.3.___ ☐	5.3.___a [ ] [ ] [ ]		5.3.___b ☐	5.3.___c
(Enter letter code from Part I Section 3.10 for stream(s) in the box provided.) 5.3.___ ☐	5.3.___a [ ] [ ] [ ]		5.3.___b ☐	5.3.___c
5.3.___ ☐	5.3.___a [ ] [ ] [ ]		5.3.___b ☐	5.3.___c

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS (Part III, Section 6)

You may report transfers of less than 1,000 lbs. by checking ranges under A.1. (Do not use both A.1 and A.2)	A. Total Transfers (lbs/yr)		B. Basis of Estimate (enter code in box provided)	C. Type of Treatment/ Disposal (enter code in box provided)
	A.1 Reporting Ranges 0 1–499 500–999	A.2 Enter Estimate		
6.1.___ Discharge to POTW (enter location number from Part II, Section 1.) 1 ☐	[ ] [ ] [ ]		6.1.___b ☐	
6.2.___ Other off-site location (enter location number from Part II, Section 2.) 2 ☐	[ ] [ ] [ ]		6.2.___b ☐	6.2.___c M ☐☐
6.2.___ Other off-site location (enter location number from Part II, Section 2.) 2 ☐	[ ] [ ] [ ]		6.2.___b ☐	6.2.___c M ☐☐
6.2.___ Other off-site location (enter location number from Part II, Section 2.) 2 ☐	[ ] [ ] [ ]		6.2.___b ☐	6.2.___c M ☐☐

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

A. General Wastestream (enter code in box provided)	B. Treatment Method (enter code in box provided)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes No
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]

Form Approved OMB No.: 2070-0093

Approval Expires: 01/91

(Important: Type or print; read instructions before completing form.)

EPA U.S. Environmental Protection Agency

TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act

EPA FORM **R**	PART I. FACILITY IDENTIFICATION INFORMATION	(This space for your optional use.)

Public reporting burden for this collection of information is estimated to vary from 30 to 34 hours per response, with an average of 32 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch (PM-223), US EPA, 401 M St., SW, Washington, D.C. 20460 Attn: TRI Burden and to the Office of Information and Regulatory Affairs, Office of Management and Budget Paperwork Reduction Project (2070-0093), Washington, D.C. 20603.

1.	1.1 Are you claiming the chemical identity on page 3 trade secret?	1.2 If "Yes" in 1.1, is this copy:	1.3 Reporting Year
	[ ] Yes (Answer question 1.2; Attach substantiation forms.) [X] No (Do not answer 1.2; Go to question 1.3.)	[ ] Sanitized [X] Unsanitized	19 88

2. CERTIFICATION (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official: J. Morgan Young, Sr. VP, Finance and Administration

Signature: [signature] Date signed: 9/28/89

RL 9/26/89

3. FACILITY IDENTIFICATION

3.1	Facility or Establishment Name: Falcon Jet Corporation	
	Street Address: Teterboro Airport	
	City: Teterboro	County: Bergen
	State: New Jersey	Zip Code: 07608

WHERE TO SEND COMPLETED FORMS:

1. U.S. ENVIRONMENTAL PROTECTION AGENCY
   P.O. BOX 70266
   WASHINGTON, DC 20024-0266
   ATTN: TOXIC CHEMICAL RELEASE INVENTORY
2. APPROPRIATE STATE OFFICE (See instructions Appendix E)

3.2	This report contains information for (Check one): a. [X] An entire facility b. [ ] Part of a facility.	
3.3	Technical Contact: George Rege	Telephone Number (include area code): 201-288-5300 x8135
3.4	Public Contact: Peter Rothwell	Telephone Number (include area code): 201-288-5300 x8051

3.5 SIC Code (4 digit)	a.	b.	c.	d.	e.	f.
	3721					

3.6	Latitude			Longitude		
	Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
	40	51	0 N	74	04	0 W

3.7	Dun & Bradstreet Number(s) a. 061337663	b.
3.8	EPA Identification Number(s) (RCRA I.D. No.) a. NJD 134869551	b.
3.9	NPDES Permit Number(s) a. N/A	b.
3.10	Receiving Streams or Water Bodies (enter one name per box) a. N/A	b.
	c.	d.
	e.	f.
3.11	Underground Injection Well Code (UIC) Identification Number(s) a. N/A	b.

4. PARENT COMPANY INFORMATION

4.1	Name of Parent Company: Avions Marcel Dassault - Breguet Aviation	
4.2	Parent Company's Dun & Bradstreet Number: N/A	

(Important: Type or print; read instructions before completing form.)

EPA

EPA FORM R
PART II. OFF-SITE LOCATIONS TO WHICH TOXIC CHEMICALS ARE TRANSFERRED IN WASTES

(This space for your optional use.)

1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

1.1 POTW name		1.2 POTW name	
N/A			
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip

2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

2.1 Off-site location name		2.2 Off-site location name	
Safety-Kleen Corporation			
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
NJD 990720658			
Street Address		Street Address	
1200 Sylvan St.			
City	County	City	County
Linden	Hudson		
State	Zip	State	Zip
NJ	07036		
Is location under control of reporting facility or parent company?		Is location under control of reporting facility or parent company?	
[ ] Yes [X] No		[ ] Yes [ ] No	

2.3 Off-site location name		2.4 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company?		Is location under control of reporting facility or parent company?	
[ ] Yes [ ] No		[ ] Yes [ ] No	

2.5 Off-site location name		2.6 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company?		Is location under control of reporting facility or parent company?	
[ ] Yes [ ] No		[ ] Yes [ ] No	

[ ] Check if additional pages of Part II are attached. How many? _____

EPA

EPA FORM R

PART III. CHEMICAL-SPECIFIC INFORMATION

(This space for your optional use.)

1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)

1.1	[Reserved]
1.2	CAS Number (Enter the number exactly as it appears on the 313 list. Enter NA if reporting a chemical category.) 71-43-2
1.3	Chemical or Chemical Category Name (Enter the name exactly as it appears on the 313 list.) Benzene
1.4	Generic Chemical Name (Complete only if Part I, Section 1.1 is checked "Yes." Generic name must be structurally descriptive.)

2. MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)

Generic Chemical Name Provided by Supplier (Limit the name to a maximum of 70 characters (e.g., numbers, letters, spaces, punctuation).)

3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)

3.1	Manufacture the chemical:	a. [ ] Produce	b. [ ] Import	If produce or import: c. [ ] For on-site use/processing	d. [ ] For sale/ distribution	e. [ ] As a byproduct / f. [ ] As an impurity
3.2	Process the chemical:	a. [ ] As a reactant	b. [ ] As a formulation component	c. [ ] As an article component	d. [ ] Repackaging only	
3.3	Otherwise use the chemical:	a. [ ] As a chemical processing aid	b. [ ] As a manufacturing aid	c. [ ] Ancillary or other use		

4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

[ ][ ] (enter code)

5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

1.5 m gal x 6.7 #/gal x .08

You may report releases of less than 1,000 lbs. by checking ranges under A.1. (Do not use both A.1 and A.2)

		A. Total Release (lbs/yr) A.1 Reporting Ranges 0 / 1-499 / 500-999	A.2 Enter Estimate	B. Basis of Estimate (enter code)	C. % From Stormwater
5.1 Fugitive or non-point air emissions	5.1a	[ ] [ ] [ ]	804,000	5.1b [ ]	
5.2 Stack or point air emissions	5.2a	[ ] [ ] [x]		5.2b [ ]	
5.3 Discharges to receiving streams or water bodies 5.3.1 [ ]	5.3.1a	[ ] [ ] [ ]	N/A	5.3.1b [ ]	5.3.1c
(Enter letter code from Part I Section 3.10 for stream(s) in the box provided.) 5.3.2 [ ]	5.3.2a	[ ] [ ] [ ]		5.3.2b [ ]	5.3.2c
5.3.3 [ ]	5.3.3a	[ ] [ ] [ ]		5.3.3b [ ]	5.3.3c
5.4 Underground injection	5.4a	[ ] [ ] [ ]	N/A	5.4b [ ]	
5.5 Releases to land					
5.5.1 On-site landfill	5.5.1a	[ ] [ ] [ ]	N/A	5.5.1b [ ]	
5.5.2 Land treatment/application farming	5.5.2a	[ ] [ ] [ ]	N/A	5.5.2b [ ]	
5.5.3 Surface impoundment	5.5.3a	[ ] [ ] [ ]	N/A	5.5.3b [ ]	
5.5.4 Other disposal	5.5.4a	[ ] [ ] [ ]	N/A	5.5.4b [ ]	

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

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PART III. CHEMICAL-SPECIFIC INFORMATION (continued)

(This space for your optional use.)

6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

You may report transfers of less than 1,000 lbs. by checking ranges under A.1. (Do not use both A.1 and A.2)	A. Total Transfers (lbs/yr)		B. Basis of Estimate	C. Type of Treatment/ Disposal
	A.1 Reporting Ranges (0 / 1–499 / 500–999)	A.2 Enter Estimate	(enter code)	(enter code)
6.1.1 Discharge to POTW (enter location number from Part II, Section 1.) [1][ ]	[ ] [ ] [ ]	1	6.1.1b [0]	
6.2.1 Other off-site location (enter location number from Part II, Section 2.) [2][ ]	[ ] [ ] [ ]	N/A	6.2.1b [ ]	6.2.1c [M][ ][ ]
6.2.2 Other off-site location (enter location number from Part II, Section 2.) [2][ ]	[ ] [ ] [ ]	N/A	6.2.2b [ ]	6.2.2c [M][ ][ ]
6.2.3 Other off-site location (enter location number from Part II, Section 2.) [2][ ]	[ ] [ ] [ ]		6.2.3b [ ]	6.2.3c [M][ ][ ]

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

7. WASTE TREATMENT METHODS AND EFFICIENCY

A. General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes / No
7.1a [ ]	7.1b [ ][ ][ ]	7.1c [ ]	7.1d [ ]	7.1e %	7.1f [ ] [ ]
7.2a [ ]	7.2b [ ][ ][ ]	7.2c [ ]	7.2d [ ]	7.2e %	7.2f [ ] [ ]
7.3a [ ]	7.3b [ ][ ][ ]	7.3c [ ]	7.3d [ ]	7.3e %	7.3f [ ] [ ]
7.4a [ ]	7.4b [ ][ ][ ]	7.4c [ ]	7.4d [ ]	7.4e %	7.4f [ ] [ ]
7.5a [ ]	7.5b [ ][ ][ ]	7.5c [ ]	7.5d [ ]	7.5e %	7.5f [ ] [ ]
7.6a [ ]	7.6b [ ][ ][ ]	7.6c [ ]	7.6d [ ]	7.6e %	7.6f [ ] [ ]
7.7a [ ]	7.7b [ ][ ][ ]	7.7c [ ]	7.7d [ ]	7.7e %	7.7f [ ] [ ]
7.8a [ ]	7.8b [ ][ ][ ]	7.8c [ ]	7.8d [ ]	7.8e %	7.8f [ ] [ ]
7.9a [ ]	7.9b [ ][ ][ ]	7.9c [ ]	7.9d [ ]	7.9e %	7.9f [ ] [ ]
7.10a [ ]	7.10b [ ][ ][ ]	7.10c [ ]	7.10d [ ]	7.10e %	7.10f [ ] [ ]

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

8. OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

A. Type of Modification (enter code)	B. Quantity of the Chemical In Wastes Prior to Treatment or Disposal			C. Index	D. Reason for Action (enter code)
	Current reporting year (lbs/yr)	Prior year (lbs/yr)	Or percent change		
[M][ ]	_____	_____	_____ %	[ ].[ ]	[R][ ]

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PART IV. SUPPLEMENTAL INFORMATION

Use this section if you need additional space for answers to questions in Part III. Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11)

(This space for your optional use.)

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE (Part III, Section 5.3)

You may report releases of less than 1,000 lbs. by checking ranges under A.1. (Do not use both A.1 and A.2)		A. Total Release (lbs/yr)		B. Basis of Estimate (enter code in box provided)	
		A.1 Reporting Ranges 0 1–499 500–999	A.2 Enter Estimate		C.% From Stormwater
5.3 Discharges to receiving streams or water bodies (Enter letter code from Part I Section 3.10 for stream(s) in the box provided.)	5.3.___	5.3.___a [ ] [ ] [ ]		5.3.___b	5.3.___c
	5.3.___	5.3.___a [ ] [ ] [ ]		5.3.___b	5.3.___c
	5.3.___	5.3.___a [ ] [ ] [ ]		5.3.___b	5.3.___c

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS (Part III, Section 6)

You may report transfers of less than 1,000 lbs. by checking ranges under A.1. (Do not use both A.1 and A.2)	A. Total Transfers (lbs/yr)		B. Basis of Estimate (enter code in box provided)	C. Type of Treatment/ Disposal (enter code in box provided)
	A.1 Reporting Ranges 0 1–499 500–999	A.2 Enter Estimate		
6.1.___ Discharge to POTW (enter location number from Part II, Section 1.) 1	[ ] [ ] [ ]		6.1.___b	
6.2.___ Other off-site location (enter location number from Part II, Section 2.) 2	[ ] [ ] [ ]		6.2.___b	6.2.___c M
6.2.___ Other off-site location (enter location number from Part II, Section 2.) 2	[ ] [ ] [ ]		6.2.___b	6.2.___c M
6.2.___ Other off-site location (enter location number from Part II, Section 2.) 2	[ ] [ ] [ ]		6.2.___b	6.2.___c M

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

A. General Wastestream (enter code in box provided)	B. Treatment Method (enter code in box provided)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes No
7.___a	7.___b	7.___c	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a	7.___b	7.___c	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a	7.___b	7.___c	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a	7.___b	7.___c	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a	7.___b	7.___c	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a	7.___b	7.___c	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a	7.___b	7.___c	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a	7.___b	7.___c	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a	7.___b	7.___c	7.___d [ ]	7.___e %	7.___f [ ] [ ]

DEQ-100
3/89

Let's protect our earth

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF ENVIRONMENTAL QUALITY
RTK SURVEY
CN 405
TRENTON, N.J. 08625-0405

← *Return completed form to this address*

SUPPLEMENTAL INFORMATION REPORT

SUPPLEMENTAL INFORMATION TO BE SUBMITTED WITH EPA FORM R PURSUANT TO THE NEW JERSEY RIGHT TO KNOW ACT.

IMPORTANT: *Read instructions before completing. Please print or type all responses.*

NJEIN | SIC | COUNTY/ MUNICIPALITY

33655500000--5088--0262--09/18/89

FALCON JET CORP

ATTN: PETER ROTHWELL

TETERBORO AIRPORT

TERERBORO, NJ 07608

Indicate changes to mailing address on label.

FACILITY LOCATION

If the facility location is different from the mailing address on the label, enter facility address below.

Hangars 113, 114, 119
Billy Diehl Road
Teterboro, NJ 07608

Warehouse
90 Moonachie Avenue
Teterboro, NJ 07608

Check here if you would like your survey mailed to the above address. ☐

SECTION A GENERAL FACILITY INFORMATION

1. NJPDES Number N/A
2. APC Plant ID N/A
3. DPCC ID Number N/A
4. Lot # _____ Block # _____
5. CERTIFICATION OF OWNER/OPERATOR OR AUTHORIZED REPRESENTATIVE — I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Signature 9/27/89 _____ Date 9/27/89 Phone Number (201) 288-5300

Name (Print) J. Morgan Young Title Sr. Vice President Finance & Administration

FOR OFFICIAL USE ONLY

DEQ-100
3/89

SUPPLEMENTAL INFORMATION REPORT

SECTION B - *Complete one Section B Form for each Environmental Hazardous Substance that meets the reporting thresholds established under SARA Title III, Section 313.*

Photocopy this sheet if you need additional forms.

1. a) NJEIN 33655500000 b) Reporting Year 1988
2. Environmental Hazardous Substance *(See Appendix B Instructions)* Benzene (contained in jet fuel)
3. RTK Substance Number _____ 4. CAS Number 71-43-2

THROUGHPUT QUANTITY INFORMATION

5. Starting inventory 5360 lbs 2 fuel trucks 5000 gallons each 10000 x 6.7 = 67000
6. Quantity produced on site 0 lbs/yr
7. Quantity brought on site 804,000 lbs/yr 1.5 ml gallons x .08 = 5360 lbs
8. Quantity consumed on site 804,000 lbs/yr
9. Quantity shipped off site (as or in product) 472 lbs/yr (16 drums)
10. Ending inventory 5360 lbs
11. Date chemical was first used on site December, 1972
12. **REQUIRED INFORMATION ON WASTE MINIMIZATION**

a. Are any methodologies employed at this facility to achieve "Source Reduction" for this substance? Briefly describe methods used. (Attach additional pages if necessary.)

All waste is hauled by Safety Kleen Corp., Linden, NJ

b. Estimate the amount of waste reduction resulting from these methods. _____

13. **DISPOSAL OF WASTES CONTAINING THE ENVIRONMENTAL HAZARDOUS SUBSTANCE**

List below any waste haulers that have been used in the reporting year:

☐ **Off-site location** EPA Identification Number (RCRA ID No.) NJD990721065 8

Hauler Name: SafetyKleen Corporation

Street Address: 1200 Sylvan Street

City: Linden | County: Hudson

State: NJ | Zip: 07036-

☐ **Off-site location** EPA Identification Number (RCRA ID No.) _____

Hauler Name:

Street Address:

City: | County:

State: | Zip: -

☐ Check if additional pages containing waste hauler information are attached.

Fc. Approved OMB No.: 2070-0093
Approval Expires: 01/91

(Important: Type or print; read instructions before completing form.)

EPA U.S. Environmental Protection Agency

TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act

EPA FORM **R**

PART I. FACILITY IDENTIFICATION INFORMATION

(This space for your optional use.)

Public reporting burden for this collection of information is estimated to vary from 30 to 34 hours per response, with an average of 32 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch (PM-223), US EPA, 401 M St., SW, Washington, D.C. 20460 Attn: TRI Burden and to the Office of Information and Regulatory Affairs, Office of Management and Budget Paperwork Reduction Project (2070-0093), Washington, D.C. 20603.

1. 1.1 Are you claiming the chemical identity on page 3 trade secret? [ ] Yes (Answer question 1.2; Attach substantiation forms.) [X] No (Do not answer 1.2; Go to question 1.3.)

1.2 If "Yes" in 1.1, is this copy: [ ] Sanitized [X] Unsanitized

1.3 Reporting Year 19 89

2. CERTIFICATION (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of senior management official: J. Morgan Young, Sr. Vice President, Finance and Administration

Signature: [signature] Date signed: 3/28/90

3. FACILITY IDENTIFICATION

3.1 Facility or Establishment Name: Falcon Jet Corporation
Street Address: Teterboro Airport
City: Teterboro County: Bergen
State: NJ Zip Code: 07608
TRI Facility Identification Number:

WHERE TO SEND COMPLETED FORMS:

1. EPCRA REPORTING CENTER
P.O. BOX 23779
WASHINGTON, DC 20026-3779
ATTN: TOXIC CHEMICAL RELEASE INVENTORY

2. APPROPRIATE STATE OFFICE (See instructions in Appendix G)

3.2 This report contains information for (Check only one): a. [X] An entire facility b. [ ] Part of a facility.

3.3 Technical Contact: George Rege — Telephone Number (include area code): (201) 288-5300 X8135

3.4 Public Contact: Peter Rothwell — Telephone Number (include area code): (201) 288-5300 X8051

3.5 SIC Code (4 digit): a. 3721 b. c. d. e. f.

3.6

Latitude			Longitude		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
40	51	0 N	74	04	0 W

3.7 Dun & Bradstreet Number(s): a. 061337663 b.

3.8 EPA Identification Number(s) (RCRA I.D. No.): a. NJD 134869551 b.

3.9 NPDES Permit Number(s): a. N/A b.

3.10 Receiving Streams or Water Bodies (enter one name per box): a. N/A b. c. d. e. f.

3.11 Underground Injection Well Code (UIC) Identification Number(s): a. N/A b.

4. PARENT COMPANY INFORMATION

4.1 Name of Parent Company: Avions Marcel Dassault - Breguet Aviation

4.2 Parent Company's Dun & Bradstreet Number: N/A

EPA

EPA FORM R
PART II. OFF-SITE LOCATIONS TO WHICH TOXIC CHEMICALS ARE TRANSFERRED IN WASTES

(This space for your optional use.)

1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

1.1 POTW name		1.2 POTW name	
N/A			
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip

2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

2.1 Off-site location name		2.2 Off-site location name	
Safety-Kleen Corporation			
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
NJD 990720658			
Street Address		Street Address	
1200 Sylvan Street			
City	County	City	County
Linden	Hudson		
State	Zip	State	Zip
NJ	07036		
Is location under control of reporting facility or parent company?		Is location under control of reporting facility or parent company?	
[ ] Yes [X] No		[ ] Yes [ ] No	

2.3 Off-site location name		2.4 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company?		Is location under control of reporting facility or parent company?	
[ ] Yes [ ] No		[ ] Yes [ ] No	

2.5 Off-site location name		2.6 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company?		Is location under control of reporting facility or parent company?	
[ ] Yes [ ] No		[ ] Yes [ ] No	

[ ] Check if additional pages of Part II are attached. How many? _____

EPA

EPA FORM R

PART III. CHEMICAL-SPECIFIC INFORMATION

(This space for your optional use.)

1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)

1.1	[Reserved]
1.2	CAS Number (Enter only one number exactly as it appears on the 313 list. Enter NA if reporting a chemical category.) 71-43-2
1.3	Chemical or Chemical Category Name (Enter only one name exactly as it appears on the 313 list.) Benzene
1.4	Generic Chemical Name (Complete only if Part I, Section 1.1 is checked "Yes." Generic name must be structurally descriptive.)

2. MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)

2. Generic Chemical Name Provided by Supplier (Limit the name to a maximum of 70 characters (e.g., numbers, letters, spaces, punctuation).)

3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)

3.1	Manufacture the chemical:	a. [ ] Produce	b. [ ] Import	If produce or import: c. [ ] For on-site use/processing	e. [ ] As a byproduct	d. [ ] For sale/ distribution; f. [ ] As an impurity
3.2	Process the chemical:	a. [ ] As a reactant	b. [ ] As a formulation component	c. [ ] As an article component	d. [ ] Repackaging only	
3.3	Otherwise use the chemical:	a. [ ] As a chemical processing aid	b. [ ] As a manufacturing aid	c. [X] Ancillary or other use		

4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

[0][2] (enter code)

5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

2.9 m gal x 6.7 #/gal x .08

You may report releases of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2)

		A. Total Release (pounds/year) A.1 Reporting Ranges (0 / 1–499 / 500–999)	A.2 Enter Estimate	B. Basis of Estimate (enter code)	C. % From Stormwater
5.1 Fugitive or non-point air emissions	5.1a	[ ] [ ] [ ]	1554.4	5.1b [ ]	
5.2 Stack or point air emissions	5.2a	[ ] [ ] [ ]		5.2b [ ]	
5.3 Discharges to receiving streams or water bodies (Enter letter code for stream from Part I Section 3.10 in the box provided.) 5.3.1 [ ]	5.3.1a	[ ] [ ] [ ]	N/A	5.3.1b [ ]	5.3.1c %
5.3.2 [ ]	5.3.2a	[ ] [ ] [ ]		5.3.2b [ ]	5.3.2c %
5.3.3 [ ]	5.3.3a	[ ] [ ] [ ]		5.3.3b [ ]	5.3.3c %
5.4 Underground injection on-site	5.4a	[ ] [ ] [ ]	N/A	5.4b [ ]	
5.5 Releases to land on-site					
5.5.1 Landfill	5.5.1a	[ ] [ ] [ ]	N/A	5.5.1b [ ]	
5.5.2 Land treatment/application farming	5.5.2a	[ ] [ ] [ ]	N/A	5.5.2b [ ]	
5.5.3 Surface impoundment	5.5.3a	[ ] [ ] [ ]	N/A	5.5.3b [ ]	
5.5.4 Other disposal	5.5.4a	[ ] [ ] [ ]	N/A	5.5.4b [ ]	

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

EPA

EPA FORM R

PART III. CHEMICAL-SPECIFIC INFORMATION (continued)

(This space for your optional use.)

6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2)	A. Total Transfers (pounds/year)		B. Basis of Estimate	C. Type of Treatment/ Disposal
	A.1 Reporting Ranges 0 / 1–499 / 500–999	A.2 Enter Estimate	(enter code)	(enter code)
6.1.1 Discharge to POTW (enter location number from Part II, Section 1.) [1] [ ]	[ ] [ ] [ ]	1	6.1.1b [ ]	
6.2.1 Other off-site location (enter location number from Part II, Section 2.) [2] [ ]	[ ] [ ] [ ]	N/A	6.2.1b [ ]	6.2.1c [M] [ ] [ ]
6.2.2 Other off-site location (enter location number from Part II, Section 2.) [2] [ ]	[ ] [ ] [ ]	N/A	6.2.2b [ ]	6.2.2c [M] [ ] [ ]
6.2.3 Other off-site location (enter location number from Part II, Section 2.) [2] [ ]	[ ] [ ] [ ]		6.2.3b [ ]	6.2.3c [M] [ ] [ ]

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

7. WASTE TREATMENT METHODS AND EFFICIENCY

[ ] Not Applicable (NA) – Check if no on-site treatment is applied to any wastestream containing the chemical or chemical category.

A. General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes / No
7.1a [ ]	7.1b [ ][ ][ ]	7.1c [ ]	7.1d [ ]	7.1e %	7.1f [ ] [ ]
7.2a [ ]	7.2b [ ][ ][ ]	7.2c [ ]	7.2d [ ]	7.2e %	7.2f [ ] [ ]
7.3a [ ]	7.3b [ ][ ][ ]	7.3c [ ]	7.3d [ ]	7.3e %	7.3f [ ] [ ]
7.4a [ ]	7.4b [ ][ ][ ]	7.4c [ ]	7.4d [ ]	7.4e %	7.4f [ ] [ ]
7.5a [ ]	7.5b [ ][ ][ ]	7.5c [ ]	7.5d [ ]	7.5e %	7.5f [ ] [ ]
7.6a [ ]	7.6b [ ][ ][ ]	7.6c [ ]	7.6d [ ]	7.6e %	7.6f [ ] [ ]
7.7a [ ]	7.7b [ ][ ][ ]	7.7c [ ]	7.7d [ ]	7.7e %	7.7f [ ] [ ]
7.8a [ ]	7.8b [ ][ ][ ]	7.8c [ ]	7.8d [ ]	7.8e %	7.8f [ ] [ ]
7.9a [ ]	7.9b [ ][ ][ ]	7.9c [ ]	7.9d [ ]	7.9e %	7.9f [ ] [ ]
7.10a [ ]	7.10b [ ][ ][ ]	7.10c [ ]	7.10d [ ]	7.10e %	7.10f [ ] [ ]

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

8. POLLUTION PREVENTION: OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

A. Type of Modification (enter code)	B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal			C. Index	D. Reason for Action (enter code)
	Current reporting year (pounds/year)	Prior year (pounds/year)	Or percent change (Check (+) or (-))		
[M] [ ]	_____	_____	[ ] + [ ] - _____ %	[ ] . [ ]	[R] [ ]

(Important: Type or print; read instructions before completing form.)

EPA

EPA FORM R

PART IV. SUPPLEMENTAL INFORMATION

Use this section if you need additional space for answers to questions in Part III. Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11)

(This space for your optional use.)

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE (Part III, Section 5.3)

You may report releases of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2)	A. Total Release (pounds/year)		B. Basis of Estimate (enter code in box provided)	C. % From Stormwater
	A.1 Reporting Ranges 0 1-499 500-999	A.2 Enter Estimate		
5.3 Discharges to receiving streams or water bodies (Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3.___ ☐ 5.3.___a [ ] [ ] [ ]		5.3.___b ☐	5.3.___c %
	5.3.___ ☐ 5.3.___a [ ] [ ] [ ]		5.3.___b ☐	5.3.___c %
	5.3.___ ☐ 5.3.___a [ ] [ ] [ ]		5.3.___b ☐	5.3.___c %

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS (Part III, Section 6)

You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2)	A. Total Transfers (pounds/year)		B. Basis of Estimate (enter code in box provided)	C. Type of Treatment/ Disposal (enter code in box provided)
	A.1 Reporting Ranges 0 1-499 500-999	A.2 Enter Estimate		
6.1.___ Discharge to POTW (enter location number from Part II, Section 1.) 1 ☐	[ ] [ ] [ ]		6.1.___b ☐	
6.2.___ Other off-site location (enter location number from Part II, Section 2.) 2 ☐	[ ] [ ] [ ]		6.2.___b ☐	6.2.___c M ☐☐
6.2.___ Other off-site location (enter location number from Part II, Section 2.) 2 ☐	[ ] [ ] [ ]		6.2.___b ☐	6.2.___c M ☐☐
6.2.___ Other off-site location (enter location number from Part II, Section 2.) 2 ☐	[ ] [ ] [ ]		6.2.___b ☐	6.2.___c M ☐☐

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

A. General Wastestream (enter code in box provided)	B. Treatment Method (enter code in box provided)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes No
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]

(Important: Type or print; read instructions before completing form.)

Approval Expires: 01/91

EPA U.S. Environmental Protection Agency

TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act

Public reporting burden for this collection of information is estimated to vary from 30 to 34 hours per response, with an average of 32 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch (PM-223), US EPA, 401 M St., SW, Washington, D.C. 20460 Attn: TRI Burden and to the Office of Information and Regulatory Affairs, Office of Management and Budget Paperwork Reduction Project (2070-0093), Washington, D.C. 20603.

EPA FORM **R**

PART I. FACILITY IDENTIFICATION INFORMATION

(This space for your optional use.) REVISION YR 1989

1. 1.1 Are you claiming the chemical identity on page 3 trade secret? [ ] Yes (Answer question 1.2; Attach substantiation forms.) [X] No (Do not answer 1.2; Go to question 1.3.)

1.2 If "Yes" in 1.1, is this copy: [ ] Sanitized [X] Unsanitized

1.3 Reporting Year 19 89

2. CERTIFICATION (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of ~~owner/operator~~ senior management official: J. Morgan Young, Sr. Vice President, Finance and Administration

Signature: [signature] Date signed: 3/22/90 11/1/90

3. FACILITY IDENTIFICATION

3.1 Facility or Establishment Name: Falcon Jet Corporation
Street Address: Teterboro Airport
City: Teterboro | County: Bergen
State: NJ | Zip Code: 07608
TRI Facility Identification Number:

WHERE TO SEND COMPLETED FORMS:

1. EPCRA REPORTING CENTER
P.O. BOX 23779
WASHINGTON, DC 20026-3779
ATTN: TOXIC CHEMICAL RELEASE INVENTORY

2. APPROPRIATE STATE OFFICE (See instructions in Appendix G)

3.2 This report contains information for (Check only one): a. [X] An entire facility b. [ ] Part of a facility.

3.3 Technical Contact: George Rege | Telephone Number (include area code): (201) 288-5300 X8135

3.4 Public Contact: Peter Rothwell | Telephone Number (include area code): (201) 288-5300 X8051

3.5 SIC Code (4 digit): a. 3721 b. c. d. e. f.

3.6

Latitude			Longitude		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
40	51	0 N	74	04	0 W

3.7 Dun & Bradstreet Number(s): a. 061337663 b.

3.8 EPA Identification Number(s) (RCRA I.D. No.): a. NJD 134869551 b.

3.9 NPDES Permit Number(s): a. N/A b.

3.10 Receiving Streams or Water Bodies (enter one name per box): a. N/A b. c. d. e. f.

3.11 Underground Injection Well Code (UIC) Identification Number(s): a. N/A b.

4. PARENT COMPANY INFORMATION

4.1 Name of Parent Company: Avions Marcel Dassault - Breguet Aviation | 4.2 Parent Company's Dun & Bradstreet Number: N/A

EPA

EPA FORM R

PART II. OFF-SITE LOCATIONS TO WHICH TOXIC CHEMICALS ARE TRANSFERRED IN WASTES

(This space for your optional use.)

1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

1.1 POTW name		1.2 POTW name	
N/A			
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip

2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

2.1 Off-site location name		2.2 Off-site location name	
Safety-Kleen Corporation			
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
NJD 990720658			
Street Address		Street Address	
1200 Sylvan Street			
City	County	City	County
Linden	Hudson		
State	Zip	State	Zip
NJ	07036		
Is location under control of reporting facility or parent company?		Is location under control of reporting facility or parent company?	
[ ] Yes [X] No		[ ] Yes [ ] No	

2.3 Off-site location name		2.4 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company?		Is location under control of reporting facility or parent company?	
[ ] Yes [ ] No		[ ] Yes [ ] No	

2.5 Off-site location name		2.6 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company?		Is location under control of reporting facility or parent company?	
[ ] Yes [ ] No		[ ] Yes [ ] No	

[ ] Check if additional pages of Part II are attached. How many? _____

EPA

EPA FORM R

PART III. CHEMICAL-SPECIFIC INFORMATION

(This space for your optional use.)

1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)

1.1 [Reserved]

1.2 CAS Number (Enter only one number exactly as it appears on the 313 list. Enter NA if reporting a chemical category.)
71-43-2

1.3 Chemical or Chemical Category Name (Enter only one name exactly as it appears on the 313 list.)
Benzene

1.4 Generic Chemical Name (Complete only if Part I, Section 1.1 is checked "Yes." Generic name must be structurally descriptive.)

2. MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)

Generic Chemical Name Provided by Supplier (Limit the name to a maximum of 70 characters (e.g., numbers, letters, spaces, punctuation).)

3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)

3.1 Manufacture the chemical:
a. [ ] Produce
b. [ ] Import
If produce or import:
c. [ ] For on-site use/processing
d. [ ] For sale/distribution
e. [ ] As a byproduct
f. [ ] As an impurity

3.2 Process the chemical:
a. [ ] As a reactant
b. [ ] As a formulation component
c. [ ] As an article component
d. [ ] Repackaging only

3.3 Otherwise use the chemical:
a. [ ] As a chemical processing aid
b. [ ] As a manufacturing aid
c. [X] Ancillary or other use

4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

[0][2] (enter code)

5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

2.9 m gal x 6.7 #/gal x .08

You may report releases of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2)

		A. Total Release (pounds/year) A.1 Reporting Ranges 0 / 1–499 / 500–999	A. Total Release (pounds/year) A.2 Enter Estimate	B. Basis of Estimate (enter code)	C. % From Stormwater
5.1 Fugitive or non-point air emissions	5.1a	[ ] [ ] [ ]	1554.4	5.1b [ ]	
5.2 Stack or point air emissions	5.2a	[ ] [ ] [ ]	N/A	5.2b [ ]	
5.3 Discharges to receiving streams or water bodies (Enter letter code for stream from Part I Section 3.10 in the box provided.) 5.3.1 [ ] 5.3.2 [ ] 5.3.3 [ ]	5.3.1a	[ ] [ ] [ ]	N/A	5.3.1b [ ]	5.3.1c %
	5.3.2a	[ ] [ ] [ ]	–	5.3.2b [ ]	5.3.2c %
	5.3.3a	[ ] [ ] [ ]	–	5.3.3b [ ]	5.3.3c %
5.4 Underground injection on-site	5.4a	[ ] [ ] [ ]	N/A	5.4b [ ]	
5.5 Releases to land on-site					
5.5.1 Landfill	5.5.1a	[ ] [ ] [ ]	N/A	5.5.1b [ ]	
5.5.2 Land treatment/application farming	5.5.2a	[ ] [ ] [ ]	N/A	5.5.2b [ ]	
5.5.3 Surface impoundment	5.5.3a	[ ] [ ] [ ]	N/A	5.5.3b [ ]	
5.5.4 Other disposal	5.5.4a	[ ] [ ] [ ]	N/A	5.5.4b [ ]	

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

EPA

EPA FORM R

PART III. CHEMICAL-SPECIFIC INFORMATION (continued)

(This space for your optional use.)

6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2)	A. Total Transfers (pounds/year)		B. Basis of Estimate	C. Type of Treatment/ Disposal
	A.1 Reporting Ranges 0 / 1–499 / 500–999	A.2 Enter Estimate	(enter code)	(enter code)
6.1.1 Discharge to POTW (enter location number from Part II, Section 1.) [1] [ ]	[ ] [ ] [ ]	1	6.1.1b [ ]	
6.2.1 Other off-site location (enter location number from Part II, Section 2.) [2] [ ]	[ ] [ ] [ ]	N/A	6.2.1b [ ]	6.2.1c [M] [ ] [ ]
6.2.2 Other off-site location (enter location number from Part II, Section 2.) [2] [ ]	[ ] [ ] [ ]	N/A	6.2.2b [ ]	6.2.2c [M] [ ] [ ]
6.2.3 Other off-site location (enter location number from Part II, Section 2.) [2] [ ]	[ ] [ ] [ ]		6.2.3b [ ]	6.2.3c [M] [ ] [ ]

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

7. WASTE TREATMENT METHODS AND EFFICIENCY

[ ] Not Applicable (NA) - Check if no on-site treatment is applied to any wastestream containing the chemical or chemical category.

A. General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes / No
7.1a [ ]	7.1b [ ][ ][ ]	7.1c [ ]	7.1d [ ]	7.1e %	7.1f [ ] [ ]
7.2a [ ]	7.2b [ ][ ][ ]	7.2c [ ]	7.2d [ ]	7.2e %	7.2f [ ] [ ]
7.3a [ ]	7.3b [ ][ ][ ]	7.3c [ ]	7.3d [ ]	7.3e %	7.3f [ ] [ ]
7.4a [ ]	7.4b [ ][ ][ ]	7.4c [ ]	7.4d [ ]	7.4e %	7.4f [ ] [ ]
7.5a [ ]	7.5b [ ][ ][ ]	7.5c [ ]	7.5d [ ]	7.5e %	7.5f [ ] [ ]
7.6a [ ]	7.6b [ ][ ][ ]	7.6c [ ]	7.6d [ ]	7.6e %	7.6f [ ] [ ]
7.7a [ ]	7.7b [ ][ ][ ]	7.7c [ ]	7.7d [ ]	7.7e %	7.7f [ ] [ ]
7.8a [ ]	7.8b [ ][ ][ ]	7.8c [ ]	7.8d [ ]	7.8e %	7.8f [ ] [ ]
7.9a [ ]	7.9b [ ][ ][ ]	7.9c [ ]	7.9d [ ]	7.9e %	7.9f [ ] [ ]
7.10a [ ]	7.10b [ ][ ][ ]	7.10c [ ]	7.10d [ ]	7.10e %	7.10f [ ] [ ]

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

8. POLLUTION PREVENTION: OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

A. Type of Modification (enter code)	B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal			C. Index	D. Reason for Action (enter code)
	Current reporting year (pounds/year)	Prior year (pounds/year)	Or percent change (Check (+) or (-))		
[M] [ ]	_____	_____	[ ] + [ ] - _____ %	[ ] [ ]	[R] [ ]

EPA

EPA FORM R

PART IV. SUPPLEMENTAL INFORMATION

Use this section if you need additional space for answers to questions in Part III. Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11)

(This space for your optional use.)

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE (Part III, Section 5.3)

You may report releases of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2)	A. Total Release (pounds/year)		B. Basis of Estimate (enter code in box provided)	C. % From Stormwater
	A.1 Reporting Ranges 0 1–499 500–999	A.2 Enter Estimate		
5.3 Discharges to receiving streams or water bodies	5.3.___ ☐ 5.3.___a [ ] [ ] [ ]		5.3.___b ☐	5.3.___c %
(Enter letter code for stream from Part I Section 3.10 in the box provided.)	5.3.___ ☐ 5.3.___a [ ] [ ] [ ]		5.3.___b ☐	5.3.___c %
	5.3.___ ☐ 5.3.___a [ ] [ ] [ ]		5.3.___b ☐	5.3.___c %

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS (Part III, Section 6)

You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2)	A. Total Transfers (pounds/year)		B. Basis of Estimate (enter code in box provided)	C. Type of Treatment/ Disposal (enter code in box provided)
	A.1 Reporting Ranges 0 1–499 500–999	A.2 Enter Estimate		
6.1.___ Discharge to POTW (enter location number from Part II, Section 1.) 1 ☐	[ ] [ ] [ ]		6.1.___b ☐	
6.2.___ Other off-site location (enter location number from Part II, Section 2.) 2 ☐	[ ] [ ] [ ]		6.2.___b ☐	6.2.___c M ☐☐
6.2.___ Other off-site location (enter location number from Part II, Section 2.) 2 ☐	[ ] [ ] [ ]		6.2.___b ☐	6.2.___c M ☐☐
6.2.___ Other off-site location (enter location number from Part II, Section 2.) 2 ☐	[ ] [ ] [ ]		6.2.___b ☐	6.2.___c M ☐☐

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

A. General Wastestream (enter code in box provided)	B. Treatment Method (enter code in box provided)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes No
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]

FalconJet

June 13, 1991

EPCRA Reporting Center
470 L'Enfant Plaza East
Suite 7103, SW
Washington, DC 20024

Attn: Toxic Chemical Release Inventory

SUBJECT: EPA FORM R - TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM FOR 1990

Dear Sir or Madam:

Enclosed for filing is EPA Form R, Toxic Chemical Release Inventory Reporting Form, for Reporting Year 1990, which has been completed and duly signed on behalf of Falcon Jet Corporation.

Please contact the undersigned should you have any questions regarding the above.

Very truly yours,

FALCON JET CORPORATION

By _____
Peter S. Rothwell
Associate Counsel

PSR:meh
Enclosure
L813

cc: New Jersey Emergency Response Commission
SARA Title III Section 313
Department of Environmental Protection
Division of Environmental Quality
Bureau of Hazardous Substances Information
CN-405
Trenton, New Jersey 08625

Via Certified Mail #524056716, Return Receipt Requested.

Fo Approved OMB No.: 2070-0093

Approval Expires: 01/94

(Important: Type or print; read instructions before completing form.)

EPA U.S. Environmental Protection Agency

TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act

Public reporting burden for this collection of information is estimated to vary from 30 to 34 hours per response, with an average of 32 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch (PM-223), US EPA, 401 M St., SW, Washington, D.C. 20460 Attn: TRI Burden and to the Office of Information and Regulatory Affairs, Office of Management and Budget Paperwork Reduction Project (2070-0093), Washington, D.C. 20603.

EPA FORM **R**

PART I. FACILITY IDENTIFICATION INFORMATION

(This space for your optional use.)

1. 1.1 Are you claiming the chemical identity on page 3 trade secret? [ ] Yes (Answer question 1.2; Attach substantiation forms.) [X] No (Do not answer 1.2; Go to question 1.3.)

1.2 If "Yes" in 1.1, is this copy: [ ] Sanitized [ ] Unsanitized

1.3 Reporting Year 19 90

2. CERTIFICATION (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official: J. Morgan Young, Sr. Vice President, Finance and Administration

Signature: PR 6/11/91 J. Morgan Young

Date signed: 6/11/91

3. FACILITY IDENTIFICATION

3.1 Facility or Establishment Name: Falcon Jet Corporation

Street Address: Teterboro Airport

City: Teterboro | County: Bergen

State: New Jersey | Zip Code: 07608

TRI Facility Identification Number: 07608FLCNJTETER

WHERE TO SEND COMPLETED FORMS:

1. EPCRA REPORTING CENTER
   P.O. BOX 23779
   WASHINGTON, DC 20026-3779
   ATTN: TOXIC CHEMICAL RELEASE INVENTORY

2. APPROPRIATE STATE OFFICE (See instructions in Appendix G)

3.2 This report contains information for (Check only one): a. [X] An entire facility b. [ ] Part of a facility.

3.3 Technical Contact: Frank Youngkin | Telephone Number (include area code): 201-262-0800

3.4 Public Contact: Peter Rothwell | Telephone Number (include area code): 201-262-0800

3.5 SIC Code (4 digit): a. 3721 b. c. d. e. f.

3.6

Latitude			Longitude		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
40	51	0 N	74	04	0 W

3.7 Dun & Bradstreet Number(s): a. 061337663 b.

3.8 EPA Identification Number(s) (RCRA I.D. No.): a. NJD981491509 b.

3.9 NPDES Permit Number(s): a. N/A b.

3.10 Receiving Streams or Water Bodies (enter one name per box): a. N/A b. c. d. e. f.

3.11 Underground Injection Well Code (UIC) Identification Number(s): a. N/A b.

4. PARENT COMPANY INFORMATION

4.1 Name of Parent Company: Dassault Aviation

4.2 Parent Company's Dun & Bradstreet Number: N/A

(Important: Type or print; read instructions before completing form.)

EPA

EPA FORM R
PART II. OFF-SITE LOCATIONS TO WHICH TOXIC CHEMICALS ARE TRANSFERRED IN WASTES

(This space for your optional use.)

1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

N/A

1.1 POTW name		1.2 POTW name	
N/A			
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip

2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

2.1 Off-site location name		2.2 Off-site location name	
Safety-Kleen Corporation			
EPA Identification Number (RCRA ID. No.) NJD990720658		EPA Identification Number (RCRA ID. No.)	
Street Address 1200 Sylvan Street		Street Address	
City Linden	County Hudson	City	County
State New Jersey	Zip 07036	State	Zip
Is location under control of reporting facility or parent company? [ ] Yes [X] No		Is location under control of reporting facility or parent company? [ ] Yes [ ] No	

2.3 Off-site location name		2.4 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [ ] Yes [ ] No		Is location under control of reporting facility or parent company? [ ] Yes [ ] No	

2.5 Off-site location name		2.6 Off-site location name	
EPA Identification Number (RCRA ID. No.)		EPA Identification Number (RCRA ID. No.)	
Street Address		Street Address	
City	County	City	County
State	Zip	State	Zip
Is location under control of reporting facility or parent company? [ ] Yes [ ] No		Is location under control of reporting facility or parent company? [ ] Yes [ ] No	

[ ] Check if additional pages of Part II are attached. How many? _____

EPA

EPA FORM R

PART III. CHEMICAL-SPECIFIC INFORMATION

(This space for your optional use.)

1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)

1.1	[Reserved]
1.2	CAS Number (Enter only one number exactly as it appears on the 313 list. Enter NA if reporting a chemical category.) 71-43-2
1.3	Chemical or Chemical Category Name (Enter only one name exactly as it appears on the 313 list.) Benzene
1.4	Generic Chemical Name (Complete only if Part I, Section 1.1 is checked "Yes." Generic name must be structurally descriptive.)

2. MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)

2. Generic Chemical Name Provided by Supplier (Limit the name to a maximum of 70 characters (e.g., numbers; letters, spaces, punctuation).)

3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)

3.1	Manufacture the chemical:	a. [ ] Produce b. [ ] Import	If produce or import: c. [ ] For on-site use/processing d. [ ] For sale/ distribution e. [ ] As a byproduct f. [ ] As an impurity
3.2	Process the chemical:	a. [ ] As a reactant b. [ ] As a formulation component c. [ ] As an article component d. [ ] Repackaging only	
3.3	Otherwise use the chemical:	a. [ ] As a chemical processing aid b. [ ] As a manufacturing aid c. [X] Ancillary or other use	

4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

[0][2] (enter code)

5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

You may report releases of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2)

		A. Total Release (pounds/year) A.1 Reporting Ranges 1-10 / 11-499 / 500-999	A. Total Release (pounds/year) A.2 Enter Estimate	B. Basis of Estimate (enter code)	C. % From Stormwater
5.1 Fugitive or non-point air emissions	5.1a	[ ] [ ] [ ]	1554.4 lb.	5.1b [ ]	
5.2 Stack or point air emissions	5.2a	[ ] [ ] [ ]	N/A	5.2b [ ]	
5.3 Discharges to receiving streams or water bodies (Enter letter code from Part I Section 3.10 for stream(s) in the box provided.) 5.3.1 [ ]	5.3.1a	[ ] [ ] [ ]	N/A	5.3.1b [ ]	5.3.1c %
5.3.2 [ ]	5.3.2a	[ ] [ ] [ ]	N/A	5.3.2b [ ]	5.3.2c %
5.3.3 [ ]	5.3.3a	[ ] [ ] [ ]	N/A	5.3.3b [ ]	5.3.3c %
5.4 Underground injection	5.4a	[ ] [ ] [ ]	N/A	5.4b [ ]	
5.5 Releases to land					
5.5.1 On-site landfill	5.5.1a	[ ] [ ] [ ]	N/A	5.5.1b [ ]	
5.5.2 Land treatment/application farming	5.5.2a	[ ] [ ] [ ]	N/A	5.5.2b [ ]	
5.5.3 Surface impoundment	5.5.3a	[ ] [ ] [ ]	N/A	5.5.3b [ ]	
5.5.4 Other disposal	5.5.4a	[ ] [ ] [ ]	N/A	5.5.4b [ ]	

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

EPA

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PART III. CHEMICAL-SPECIFIC INFORMATION (continued)

(This space for your optional use.)

6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2)	A. Total Transfers (pounds/yr) A.1 Reporting Ranges 1-10 / 11-499 / 500-999	A. Total Transfers (pounds/yr) A.2 Enter Estimate	B. Basis of Estimate (enter code)	C. Type of Treatment/ Disposal (enter code)
6.1.1 Discharge to POTW (enter location number from Part II, Section 1.) 1 .	[ ] [ ] [ ]	0	6.1.1b [ ]	
6.2.1 Other off-site location (enter location number from Part II, Section 2.) 2 .	[ ] [ ] [ ]	N/A	6.2.1b [ ]	6.2.1c M [ ] [ ]
6.2.2 Other off-site location (enter location number from Part II, Section 2.) 2 .	[ ] [ ] [ ]	N/A	6.2.2b [ ]	6.2.2c M [ ] [ ]
6.2.3 Other off-site location (enter location number from Part II, Section 2.) 2 .	[ ] [ ] [ ]	N/A	6.2.3b [ ]	6.2.3c M [ ] [ ]

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

7. WASTE TREATMENT METHODS AND EFFICIENCY

[X] Not Applicable (NA) - Check if no on-site treatment is applied to any waste stream containing the chemical or chemical catagory

A. General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes / No
7.1a [ ]	7.1b [ ] [ ] [ ]	7.1c [ ]	7.1d [ ]	7.1e %	7.1f [ ] [ ]
7.2a [ ]	7.2b [ ] [ ] [ ]	7.2c [ ]	7.2d [ ]	7.2e %	7.2f [ ] [ ]
7.3a [ ]	7.3b [ ] [ ] [ ]	7.3c [ ]	7.3d [ ]	7.3e %	7.3f [ ] [ ]
7.4a [ ]	7.4b [ ] [ ] [ ]	7.4c [ ]	7.4d [ ]	7.4e %	7.4f [ ] [ ]
7.5a [ ]	7.5b [ ] [ ] [ ]	7.5c [ ]	7.5d [ ]	7.5e %	7.5f [ ] [ ]
7.6a [ ]	7.6b [ ] [ ] [ ]	7.6c [ ]	7.6d [ ]	7.6e %	7.6f [ ] [ ]
7.7a [ ]	7.7b [ ] [ ] [ ]	7.7c [ ]	7.7d [ ]	7.7e %	7.7f [ ] [ ]
7.8a [ ]	7.8b [ ] [ ] [ ]	7.8c [ ]	7.8d [ ]	7.8e %	7.8f [ ] [ ]
7.9a [ ]	7.9b [ ] [ ] [ ]	7.9c [ ]	7.9d [ ]	7.9e %	7.9f [ ] [ ]
7.10a [ ]	7.10b [ ] [ ] [ ]	7.10c [ ]	7.10d [ ]	7.10e %	7.10f [ ] [ ]

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

8. POLLUTION PREVENTION: OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

A. Type of Modification (enter code)	B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal			C. Index	D. Reason for Action (enter code)
	Current reporting year (pounds/year)	Prior year (pounds/year)	Or percent change (Check (+) or (-))		
M [ ]	_____	_____	[ ] + [ ] - _____ %	[ ] . [ ]	R [ ]

EPA

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PART IV. SUPPLEMENTAL INFORMATION

Use this section if you need additional space for answers to questions in Part III. Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11)

(This space for your optional use.)

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE (Part III, Section 5.3)

You may report releases of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2)		A. Total Release (pounds/yr)		B. Basis of Estimate (enter code in box provided)	C. % From Stormwater
		A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
5.3 Discharges to receiving streams or water bodies (Enter letter code from Part I Section 3.10 for stream(s) in the box provided.)	5.3.___ ☐	5.3.___a [ ] [ ] [ ]		5.3.___b ☐	5.3.___c %
	5.3.___ ☐	5.3.___a [ ] [ ] [ ]		5.3.___b ☐	5.3.___c %
	5.3.___ ☐	5.3.___a [ ] [ ] [ ]		5.3.___b ☐	5.3.___c %

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS (Part III, Section 6)

You may report transfers of less than 1,000 pounds by checking ranges under A.1. (Do not use both A.1 and A.2)	A. Total Transfers (pounds/yr)		B. Basis of Estimate (enter code in box provided)	C. Type of Treatment/ Disposal (enter code in box provided)
	A.1 Reporting Ranges 1-10 11-499 500-999	A.2 Enter Estimate		
6.1.___ Discharge to POTW (enter location number from Part II, Section 1.) 1 ☐	[ ] [ ] [ ]		6.1.___b ☐	
6.2.___ Other off-site location (enter location number from Part II, Section 2.) 2 ☐	[ ] [ ] [ ]		6.2.___b ☐	6.2.___c M ☐☐
6.2.___ Other off-site location (enter location number from Part II, Section 2.) 2 ☐	[ ] [ ] [ ]		6.2.___b ☐	6.2.___c M ☐☐
6.2.___ Other off-site location (enter location number from Part II, Section 2.) 2 ☐	[ ] [ ] [ ]		6.2.___b ☐	6.2.___c M ☐☐

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

A. General Wastestream (enter code in box provided)	B. Treatment Method (enter code in box provided)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes No
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]
7.___a ☐	7.___b ☐☐☐	7.___c ☐	7.___d [ ]	7.___e %	7.___f [ ] [ ]

FalconJet®

June 13, 1991

State of New Jersey
Department of Environmental Protection
Bureau of Hazardous Substances Information
RTK Survey
CN 405
Trenton, New Jersey 08625-0405

SUBJECT: FORM DEQ-114 - RELEASE & SOURCE REDUCTION REPORT FOR 1990

Dear Sir or Madam:

Enclosed for is original Form DEQ-114, Release & Source Reduction Report For 1990, which has been completed and duly signed on behalf of Falcon Jet Corporation.

Please feel free to contact the undersigned should you have any questions regarding the above.

Very truly yours,

FALCON JET CORPORATION

By _____
Peter S. Rothwell
Associate Counsel

PSR:meh
Enclosure

L814

cc: RTK Coordinator
Bergen County Department
of Health Services
327 East Ridgewood Avenue
Paramus, New Jersey 07562

Via Certified Mail #006255417, Return Receipt Requested.

DEQ-114
2/91

Let's protect our earth

NEW JE..EY DEPARTMENT OF ENVIRONMENTAL PRO. TION
DIVISION OF ENVIRONMENTAL QUALITY
RTK SURVEY - CN 405 - TRENTON, N.J. 08625-0405

Return completed form to this address

RELEASE & SOURCE REDUCTION REPORT FOR 1990

IMPORTANT:

- *Read instructions before completing. Please print or type all responses and transmit the completed survey to the Department and copies to the health department of the county in which the facility is located by July 1, 1991.*
- *Complete one Section B Form for each Environmental Hazardous Substance or Section 313 Toxic Chemical manufactured, processed and/or used in excess of 10,000 pounds.*
- *If no Environmental Hazardous Substance or Section 313 Toxic Chemical is present at the facility, complete only Section A.*

NJEIN	SIC	COUNTY/ MUNICIPALITY
33655500000	3721	0262

FALCON JET CORP
ATTN: PETER ROTHWELL
TETERBORO AIRPORT
TETERBORO, NJ 07608

Indicate changes to mailing address on label.

FACILITY LOCATION

If the facility location is different from the mailing address on the label, enter facility address below.

Falcon Jet Corporation
114 Billy Diehl Road
Teterboro Airport
Teterboro, N.J. 07608

Check here if you would like your survey mailed to the above address. ☐

SECTION A — GENERAL FACILITY INFORMATION

1a. Person to contact regarding this report
Name (printed) Peter S. Rothwell Title Associate Counsel

1b. Phone number (include area code) (201) 262-0800

1c. Contact's address (if different than facility) East 15 Midland Avenue, Paramus, NJ 07652

2. Briefly describe the nature of business conducted at this facility Maintenance, repair, fueling and servicing of Falcon model business jet aircraft at three (3) hangars and an executive terminal at Teterboro Airport.

3. Date facility began operations at this site 1972

4. Lot # 1 Block # 76

5. Has any portion of the site ever been used for final disposal of any hazardous wastes? ☐ Yes ☒ No

6. What is the status of this facility as set forth under RCRA rules and regulations?

Small Quantity Hazardous Waste Generator (under 100 Kg/month)	☐ Yes	☒ No
Generator of Hazardous Waste (greater than 100 Kg/month)	☒ Yes	☐ No
Transporter of Hazardous Waste	☐ Yes	☒ No
Hazardous Waste Treatment, Storage and/or Disposal Facility	☐ Yes	☒ No

7. Supply your EPA Hazardous Waste Generator ID Number NJD981491509

8. Did this facility file a USEPA Form R (Toxic Release Inventory Form) for calendar year 1990? ☒ Yes ☐ No

9. Did this facility file a 1990 Waste Generation and Management Form (Form GM) as part of a RCRA Generator Annual Report? ☒ Yes ☐ No

10. Supply your Dun & Bradstreet Number (if available) D-U-N-S Number 06133 7663

13. Water Use Information — What water sources are utilized by this facility? (Include approximate gallons used per day)

Falcon Jet Corporation receives water from the Hackensack Water Company.

Annual consumption is approximately 617,100 gallons.

14. What fuels are utilized by this facility? Jet A (pumped from truck to aircraft)

Gasoline (utilized)

Fuel oil (utilized)

15. Air Pollution Permits — Do you have an APC plant ID No.? ☐ Yes ☒ No If yes, enter number _____

16. Have you made any trade secret claims on this report? ☐ Yes ☒ No (You are required to provide full documentation on any trade secret claims. Refer to Trade Secret Claim Instructions.)

17. Check here if no Environmental Hazardous Substance is present at the facility. ☐

Benzene which is a constituent of Jet A fuel is present at the facility. There are minute fugitive point source benzene emissions when the Jet A fuel is pumped from the fuel tanks (trucks) to the aircraft.

18. CERTIFICATION OF OWNER/OPERATOR OR AUTHORIZED REPRESENTATIVE — I certify under penalty of law that I have personally examined and am familiar with the information submitted in this doucment, and that based on my inquiry of those individudals responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

FALCON JET CORPORATION

By: Signature _____ Date 6/14/91 Phone No. (201) 262-0800

Name (Print) J. Morgan Young Title Sr. Vice President Finance and Administration

pr 6/13/91

NOTE: You are required pursuant to the authority of N.J.S.A. 34:5A-7.b. to forward a copy of this survey to your County Lead Agency. (See Instructions)

21. Management of Wastes Containing the Substance: 10 Gallons x 368.5 lbs =3685 lb x .08 = 2

Table A Physical State	Table B Storage Method	Name and Address of Waste Hauler (Name,Street,City, State,Zip)	Quantity of Substance in Waste (lbs/yr)	Name and Location of Management Facility (Name,Street,City, State,Zip)	Table C Mgmt. Method
P-02	SM-01	Safety Kleen Corp. 1200 Sylvan Street Linden, NJ 07036	294.6 lb	Safety Kleen Corp. 1200 Sylvan Street Linden, NJ 07036 ☐ Check if final disposal is "On site"	
				☐ Check if final disposal is "On site"	
				☐ Check if final disposal is "On site"	
				☐ Check if final disposal is "On site"	

21.a. TOTAL QUANTITY OF SUBSTANCE IN WASTE 294.6 lb/yr

SELF VERIFICATION STATEMENT: The sum of starting inventory, quantity produced and quantity brought on site should approximately equal the sum of quantity consumed (chemically altered), quantity shipped off site as (or in) product and as (or in) waste, quantity destroyed through on-site treatment, total air emissions, total wastewater discharges, and ending inventory. (See worksheet in the instructions.)

		QUANTITY	UNITS
22.	1990 Quantity and Units of Production* Associated with the Substance	N/A	
23.	1989 Quantity and Units of Production* Associated with the Substance	N/A	

*PRODUCTION: Whenever possible, "UNITS" should be mass or surface area units only, such as pounds of material manufactured or square footage of product involved.

☐ Check if additional pages containing information for questions 21, 22 and 23 are attached.

FalconJet®

August 8, 1991

Mr. Darin Schaefer
State of New Jersey
Department of Environmental Protection
Bureau of Hazardous Substances Information
RTK Survey
CN 405
Trenton, New Jersey 08625-0405

SUBJECT: REVISION - FORM DEQ-114 - RELEASE & SOURCE REDUCTION REPORT FOR 1990

Dear Mr. Schaefer:

Pursuant to our telephone conversation this morning, enclosed is a copy of Page 4 of 6 of Form DEQ-114, Release & Source Reduction Report For 1990, which has been revised in red ink pursuant to your instructions.

I trust that our Report is now complete and that we may consider it "filed."

Please feel free to contact the undersigned should you have any questions regarding the above.

Very truly yours,

FALCON JET CORPORATION

By: Peter S. Rothwell
Associate Counsel

PSR:meh
Enclosure

L899

cc: RTK Coordinator
Bergen County Department
of Health Services
327 East Ridgewood Avenue
Paramus, New Jersey 07562

Via Certified Mail #512656573, Return Receipt Requested.

DEQ-114
2/91

Voluntary Revision

REVISED 1990

RELEASE & SOURCE REDUCTION REPORT FOR 1990

SECTION B — *Complete one Section B Form for each Environmental Hazardous Substance or Section 313 Toxic Chemical for 1990. This section does not apply to waste associated with hazardous waste clean-up operations.*

1a. Name and Location of Plant	1b. NJEIN	2. Reporting Year
Falcon Jet Corporation 114 Billy Diehl Road Teterboro Airport Teterboro, New Jersey 07608	33655500000	1990

3a. Environmental Hazardous Substance Name	3b. CAS No.	3c. RTK Substance No.
Benzene (constituent of Jet A fuel)	71-43-2	0197

4.	ACTIVITIES AND USES OF THE SUBSTANCE AT THE FACILITY (Check all that apply.)	
4.1	Manufacture the substance: a. ☐ Produce b. ☐ Import	If produce or import: c. ☐ For on-site use/processing d. ☒ For sale/distribution e. ☐ As a byproduct f. ☐ As an impurity
4.2	Process the substance: a. ☐ As a reactant b. ☐ As a formulation component c. ☐ As an article component d. ☐ Repackaging only	
4.3	Otherwise use the substance: a. ☐ As a chemical processing aid b. ☐ As a manufacturing aid c. ☒ Ancillary or other use	
4.4	Date Substance was First Used on Site (if known) 1977	
5.a	Principal Method of Storage: Two (2) 5000 gallon Turbo refueler trucks	
5.b	Frequency of Transfer from Storage: 15 times per day (400 monthly aircraft refuelings)	
5.c	Methods of Transfer: Benzene fumes evaporate to air from refueling hose	

2.9 million gallons of Jet A x 6.7 lb/gal x .00008

		QUANTITY (lbs.)	Basis of Estimate
INVENTORY AND THROUGHPUT	6.a. Maximum Daily Inventory of Substance	54. lb	M
	6.b. Average Daily Inventory within all Process Equipment	0	
	6.c. Average Daily Inventory (excluding 6.b.)	40. lb	M
	7. Starting Inventory of Substance	54. lb	M
	8. Quantity Produced on Site	0	
	9. Quantity Brought on Site	13,749. ~~1544~~.1 lb	M
	10. Quantity Consumed on Site (chemically altered)	0	
	11. Quantity Shipped off Site as (or in) Product (in aircraft)	13,695 lb	M
	12. Ending Inventory of Substance	54 lb	
	13. Quantity Recycled, Reprocessed or Reused on Site	0	
	14. Quantity Destroyed through On-Site Treatment N/A	0	
Air Emissions	15. Total Stack or Point Source Emissions N/A	0	
	16. Total Fugitive or Non-Point Source Emissions	1544./year	M
Wastewater Discharges	17. Total Discharge to On-Site Treatment or Pretreatment System N/A	0	
	18. Total Discharge to Publicly Owned Treatment Works (POTW) N/A	0	
	19. Total Discharge to Surface Waters N/A	0	
	20. Total Discharge to Ground Water N/A	0	

RELEASE & SOURCE REDUCTION REPORT FOR 1990

SECTION B — *Complete one Section B Form for each Environmental Hazardous Substance or Section 313 Toxic Chemical for 1990. This section does not apply to waste associated with hazardous waste clean-up operations.*

1a. Name and Location of Plant	1b. NJEIN	2. Reporting Year
Falcon Jet Corporation 114 Billy Diehl Road Teterboro Airport Teterboro, New Jersey 07608	33655500000	1990

3a. Environmental Hazardous Substance Name	3b. CAS No.	3c. RTK Substance No.
Benzene (constituent of Jet A fuel)	71-43-2	0197

4. ACTIVITIES AND USES OF THE SUBSTANCE AT THE FACILITY (Check all that apply.)

4.1	Manufacture the substance:	a. ☐ Produce b. ☐ Import	If produce or import: c. ☐ For on-site use/processing d. ☒ For sale/distribution e. ☐ As a byproduct f. ☐ As an impurity
4.2	Process the substance:	a. ☐ As a reactant b. ☐ As a formulation component c. ☐ As an article component d. ☐ Repackaging only	
4.3	Otherwise use the substance:	a. ☐ As a chemical processing aid b. ☐ As a manufacturing aid c. ☒ Ancillary or other use	
4.4	Date Substance was First Used on Site (if known)	1977	
5.a	Principal Method of Storage:	Two (2) 5000 gallon Turbo refueler trucks	
5.b	Frequency of Transfer from Storage:	15 times per day (400 monthly aircraft refuelings)	
5.c	Methods of Transfer:	Benzene fumes evaporate to air from refueling hose	

2.9 million gallons of Jet A x 6.7 lb/gal x .00008

		QUANTITY (lbs.)	Basis of Estimate
INVENTORY AND THROUGHPUT	6.a. Maximum Daily Inventory of Substance	54. lb	M
	6.b. Average Daily Inventory within all Process Equipment	0	
	6.c. Average Daily Inventory (excluding 6.b.)	40. lb	M
	7. Starting Inventory of Substance	54. lb	M
	8. Quantity Produced on Site	0	
	9. Quantity Brought on Site	13641. ~~1544.1~~ lb	M
	10. Quantity Consumed on Site (chemically altered)	0	
	11. Quantity Shipped off Site as (or in) Product (in aircraft)	13,695 lb	M
	12. Ending Inventory of Substance	54 lb	
	13. Quantity Recycled, Reprocessed or Reused on Site	0	
	14. Quantity Destroyed through On-Site Treatment N/A	0	
Air Emissions	15. Total Stack or Point Source Emissions N/A	0	
	16. Total Fugitive or Non-Point Source Emissions	1544./year	M
Wastewater Discharges	17. Total Discharge to On-Site Treatment or Pretreatment System N/A	0	
	18. Total Discharge to Publicly Owned Treatment Works (POTW) N/A	0	
	19. Total Discharge to Surface Waters N/A	0	
	20. Total Discharge to Ground Water N/A	0	