Pat in Valley Generators file

JACKIE SWIGART
Secretary

JOHN Y. BROWN, JR.
Governor

COMMONWEALTH OF KENTUCKY
DEPARTMENT FOR NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION
BUREAU OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR POLLUTION CONTROL
WEST FRANKFORT OFFICE COMPLEX
1050 U.S. 127 BYPASS SOUTH
FRANKFORT, KENTUCKY 40601

Site: A.L. Taylor.
Break: 11.0
Other:

MEMORANDUM

TO: Pat Haight
Division of Hazardous Material
and Waste Management

THROUGH: James W. Dills JWD
Gary L. Metcalf GLM

FROM: Yogesh N. Doshi YND

DATE: September 17, 1980

SUBJECT: Notice of receipt of request for Division of Air Pollution Control permission to dispose of liquid waste materials through incineration.

COMPANY L.W.D., Inc.

MAILING ADDRESS P.O. Box 327
Calvert City, Kentucky 42029

CONTACT PERSON Amos H. Shelton, Jr.

TELEPHONE NO. (502) 395-7515

UTM COORDINATES Z 16, E 379.5, N 4094.0

I.D.# 072-2600-0017
I.D.# 077-4020-0042

UTM COORDINATES Z 16, E 432.3, N 4143.8

The subject company's request for permission from the Division of Air Pollution Control to dispose of liquid waste materials through incineration may fall under the purview of your Division. A copy of the request is attached herewith.

Pursuant to a recent Bureau directive, this Division is authorized to withhold the issuance of the necessary Division of Air Pollution permission until such time as we are informed by you that no problems to your Division will result. Please advise this Division of your concurrence, or non-concureence with the issuance of the DAPC permission or your need for additional time to decide. Please advise this Division before September 30, 1980.

cm

cc: Jack Wilson
Norman Schell
Hisham Sa'aid
Regional Office - Owensboro & Paducah
Facility Files

000337

10951340

L. W. D., INC.

P.O. Box 327
CALVERT CITY, KENTUCKY 42029

RECEIVED
SEP 9 10 20 AM '80
AIR POLLUTION CONTROL

September 8, 1980

Mr. Gary Metcalf
Kentucky Department for Natural Resources
and Environmental Protection
Division of Air Pollution Control
1050 U.S. 127 Bypass South
Frankfort, Kentucky 40601

Subject: WASTE MATERIAL SURVEYS

Dear Gary:

We are attaching five (5) Waste Material Surveys which fall in the classifications of flammable waste and organic acids.

Please confirm approvals at both Calvert and Clay Plants. This will be greatly appreciated.

Yours very truly,

L. W. D., INC.

Amos H. Shelton, Jr.

Amos H. Shelton, Jr.

AHSJr.:adh

Attachments

KENTUCKY DIVISION OF AIR POLLUTION CONTROL
WASTE MATERIAL SURVEY

(1) COMPANY L. W. D., Inc.

(2) PLANT LOCATION ID 072-2600-0017 ID 077-4020-0042

(3) MAILING ADDRESS P. O. Box 327, Calvert City, Kentucky 42029

(4) DESCRIPTION OF WASTE PRODUCT (i.e. paint sludge, solvent, etc.) Resins & resin solvent

(5) VOLUME OF WASTE 125,000 gal. year + or -

(6) WASTE GENERATOR 2-09080 Celanese

(7) Physical State @ 70°F (circle one) SOLID (LIQUID) SEMI-SOLID

(8) General Viscosity @ 70°F (circle one) LOW (MEDIUM) HIGH

(9) Specific Gravity @ 60°F - .8 - 1.1

(10) Heat Content (BTU's/LB.) - 15,000 + or -

(11) Non-Combustible (Wt. %) - 0.0% ash

(12) Chlorine Content (Total Wt. %) - < .2 % to 0.0%

(13) Metallic Content (Specify ppm) - Fe____ Pb____ Cu____ Hg____ Zn____ Al____ N/A

(14) Other Toxic Compounds (Specify ppm) - _____ _____

See attachments I & III

(15) Firm or Agency Performing Chemical Analysis- (Attach certified proximate analysis)

Celanese

To the best of my knowledge and ability, this is a complete and accurate description of this waste material.

(16) SIGNATURE [signature] TITLE A. H. Shelton, Jr. President

PHONE NUMBER 502-395-7045 DATE September 8, 1980

L. W. D., INC.

Celanese

Attachment I

The typical resins which would be contained in the solutions would be alkyd, epoxy, acrylic, amino, amino or urea-formaldehyde resins. They would contain from 0 - 60% of the solvent types listed on Attachment II.

ATTACHMENT II

Solvents which might be regarded as toxic which will be included in the waste are:

Light aromatic solvents, e.g., xylene and toluene

Ketone solvents, e.g., acetone, MIBK, MEK

Cellosolves and cellosolve acetates

Other solvents not normally considered toxic are mineral spirits; alcohols, such as methanol, ethanol and butanol; and hydrocarbons, such as hexane, heptane and cyclopentane.

Monomers used in the manufacture of acrylic resins might be mixed in with the solvents examples are: acrylic acid, methyl metacrylate, ethyl acetate, ethylacrylate and styrene monomers.

Some small amounts of resin will generally be dissolved in the solvents the resins will be of the alkyd, epoxy, acrylic, amine or amino type.

Other possible costituents of the waste would be some raw materials such as TETA, DETA, TEA or other amines. Fatty acids or oils might be blended with this waste as could lubricating oils.

Often the waste solvents will have an associated water layer in which the above materials are dissolved to some degree.

KENTUCKY DIVISION OF AIR POLLUTION CONTROL
WASTE MATERIAL SURVEY

(1) COMPANY L. W. D., Inc.

(2) PLANT LOCATION ID 072-2600-0017 ID 077-4020-0042

(3) MAILING ADDRESS P. O. Box 327, Calvert City, Kentucky 42029

(4) DESCRIPTION OF WASTE PRODUCT (i.e. paint sludge, solvent, etc.) Maleic Anhydride Waste Water

(5) VOLUME OF WASTE 18,000 + or - gal./week

(6) WASTE GENERATOR Ashland 5-09080

(7) Physical State @ 70°F (circle one) SOLID LIQUID SEMI-SOLID

(8) General Viscosity @ 70°F (circle one) (LOW) MEDIUM HIGH

(9) Specific Gravity @ 60°F - 1 - 1.1

(10) Heat Content (BTU's/LB.) - 2,000

(11) Non-Combustible (Wt. %) - < 0.3 Ash

(12) Chlorine Content (Total Wt. %) - 0

(13) Metallic Content (Specify ppm) - Fe ____ Pb ____ Cu ____ Hg ____ Zn ____ Al ____ N/A

(14) Other Toxic Compounds (Specify ppm) - Fumeric Acid 0.2% ± Maleic Acid 28% ± Phthalic " .01

(15) Firm or Agency Performing Chemical Analysis- (Attach certified proximate analysis)
Ashland

To the best of my knowledge and ability, this is a complete and accurate description of this waste material.

(16) SIGNATURE Amos H. Shelton Jr. TITLE A. H. Shelton, Jr., President

PHONE NUMBER 502-395-7045 DATE September 8, 1980

KENTUCKY DIVISION OF AIR POLLUTION CONTROL
WASTE MATERIAL SURVEY

(1) COMPANY L. W. D., Inc.

(2) PLANT LOCATION

(3) MAILING ADDRESS P. O. Box 327, Calvert City, Kentucky 42029

(4) DESCRIPTION OF WASTE PRODUCT (i.e. paint sludge, solvent, etc.) Maleic Acid [illegible]

(5) VOLUME OF WASTE
15,000 + or - gal./week

(6) WASTE GENERATOR 5-09080
Ashland

(7) Physical State @ 70°F (circle one)
(SOLID) LIQUID SEMI-SOLID

(8) General Viscosity @ 70°F (circle one)
(LOW) MEDIUM HIGH

(9) Specific Gravity @ 60°F - 1 - 1.1

(10) Heat Content (BTU's/LB.) - 2,000

(11) Non-Combustible (Wt. %) - < 0.3 Ash

(12) Chlorine Content (Total Wt. %) - 0

(13) Metallic Content (Specify ppm) - Fe____ Pb____
Cu____ Hg____ N/A
Zn____ Al____

(14) Other Toxic Compounds (Specify ppm) - Fumeric Acid 0.2% ±
Maleic Acid 28% ±
Phthalic " .01

(15) Firm or Agency Performing Chemical Analysis- (Attach certified proximate analysis)
Ashland

To the best of my knowledge and ability, this is a complete and accurate description of this waste material.

(16) SIGNATURE | TITLE A. H. Shelton, Jr., President

PHONE NUMBER 502-395-7045 | DATE September 8, 1980

KENTUCKY DIVISION OF AIR POLLUTION CONTROL
WASTE MATERIAL SURVEY

(1) COMPANY L. W. D., Inc.

(2) PLANT LOCATION I.D. 072-2600-00
077-4020-00

(3) MAILING ADDRESS P. O. Box 327, Calvert City, Kentucky 42029

(4) DESCRIPTION OF WASTE PRODUCT (i.e. paint sludge, solvent, etc.) Dirty wash solvent

(5) VOLUME OF WASTE
2000 gal. per month + or -

(6) WASTE GENERATOR 1-09080
Reliance Universal

(7) ~~Physical State~~ @ 70°F (circle one)
SOLID LIQUID SEMI-SOLID

(8) ~~General~~ Viscosity @ 70°F (circle one)
LOW MEDIUM HIGH

(9) Specific Gravity @ 60°F - 0.8 - 1.0

(10) Heat Content (BTU's/LB.) - 15,000 + or -

(11) Non-Combustible (Wt. %) - 0.0% ash

(12) Chlorine Content (Total Wt. %) - 0.0%

(13) Metallic Content (Specify ppm) - Fe ____ Pb ____
Cu ____ Hg ____ N/A
Zn ____ Al ____

(14) Other Toxic Compounds (Specify ppm) - ____ ____
____ ____
See attached sheet ____ ____

(15) Firm or Agency Performing Chemical Analysis- (Attach certified proximate analysis)
Reliance

To the best of my knowledge and ability, this is a complete and accurate description of this waste material.

(16) SIGNATURE A. H. Shelton, Jr. TITLE A. H. Shelton, Jr. President

PHONE NUMBER 502-395-7045 DATE September 8, 1980

DATE PREPARED 11-8-79

Section I — IDENTIFICATION OF PRODUCT

ELIANCE UNIVERSAL INC. RESINS OPERATION

EMERGENCY TELEPHONE NO (502) 361-9491

INFORMATION TELEPHONE NO (502) 361-9491

4730 Crittenden Drive — Louisville, Kentucky 40221

STREET ADDRESS — CITY, STATE and ZIP CODE

PRODUCT CLASS Dirty Wash Solvent

MANUFACTURER'S CODE IDENTIFICATION Dirty Wash Solvent

TRADE NAME Not Applicable

Section II — HAZARDOUS INGREDIENTS

INGREDIENT	Approx. Weight	THRESHOLD LIMIT VALUE PPM	THRESHOLD LIMIT VALUE mg/m3	LEL	[illegible]
Xylene	58	100	435	1.0	[illegible]
Butanol	8	50	150	1.4	[illegible]
Toluene	7	100	375	1.2	[illegible]
VM&P Naphtha	6	500	1800	0.9	[illegible]
Isobutanol	5	50	150	1.7	[illegible]
Methyl Isobutyl Ketone	2	100	---	1.22	---
Ethylene glycol monobutyl ether	1	50	240	1.1	[illegible]
Ethylene glycol monoethyl ether acetate	1	100	---	1.24	[illegible]

Section III — PHYSICAL DATA

BOILING RANGE 230°-367°F (Solvent)

VAPOR DENSITY ☐ HEAVIER THAN AIR ☐ LIGHTER THAN AIR

EVAPORATION RATE ☐ FASTER THAN ETHER ☐ SLOWER THAN ETHER

PERCENT VOLATILE BY VOLUME 83-100

WEIGHT PER GALLON 6.6-8.3 lbs./[illegible]

Section IV — FIRE AND EXPLOSION HAZARD DATA

Flammability Classification Flammable Liquid, Class IC FLASHPOINT 60-81°F (Seta) varies LEL 0.9%

EXTINGUISHING MEDIA Foam, carbon dioxide, dry chemical (Any Class B fire extinguisher)

SPECIAL FIRE AND EXPLOSION HAZARDS Should be stored in tightly closed containers away from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build up, explosion, or possible ignition when exposed to extreme heat. RED LABEL - FLAMMABLE LIQUID

While Reliance Universal Inc. believes that the data contained herein are accurate and derived from qualified sources the data are not to be taken as a warranty or representation for which Reliance Universal 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.

Section V — HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE Not available

EFFECTS OF OVEREXPOSURE

ACUTE Inhalation: Anesthetic irritation of the respiratory tract or acute nervous system depression characterized by headache, dizziness, staggering, confusion, coma.
Skin or eye contact: primary irritant.

CHRONIC Extensive and continued overexposure may result in respiratory or skin sensitization.

EMERGENCY AND FIRST AID PROCEDURES Remove to fresh air. Wash skin contact area with soap and water. Flush eyes with water and report to physician immediately.

Section VI — REACTIVITY DATA

STABILITY ☐ UNSTABLE ☐ STABLE CONDITIONS TO AVOID High temperatures, open flames and sparks

INCOMPATABILITY (Materials to Avoid) None

HAZARDOUS DECOMPOSITION PRODUCTS May produce hazardous fumes when heated to decomposition as in welding. Fumes may contain carbon monoxide.

HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☐ WILL NOT OCCUR

CONDITIONS TO AVOID Elevated temperatures and open containers.

Section VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Remove all sources of ignition (flame, hot surfaces, electrical, static or frictional sparks). Avoid breathing vapors. Ventilate area. Contain or remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD Dispose in accordance with local, state and federal regulations. Incinerate in approved facility. Do not incinerate closed containers.

Section VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION In restricted areas, use approved chemical mechanical filters to remove gas and vapors. In a confined area, use approved airline type respirators or hoods.

VENTILATION Local exhaust is preferable; however, general mechanical is acceptable.

Sufficient ventilation, in volume and pattern, should be provided to keep the vapor concentration below applicable OSHA requirements.

PROTECTIVE GLOVES Use neoprene gloves to prevent skin contact.

EYE PROTECTION Use chemical goggles.

OTHER PROTECTIVE EQUIPMENT Safety showers and eyewash fountains.

Section IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Contains flammable solvent. Keep away from heat, sparks and open flames. Use with adequate ventilation. Avoid prolonged or repeated breathing of vapor. Avoid prolonged or repeated contact. Do not leave containers open. Comply with OSHA regulations. For industrial use only.

OTHER PRECAUTIONS Do not take internally. Avoid prolonged contact with skin, ground all containers when pouring in flammable atmosphere.

KENTUCKY DIVISION OF AIR POLLUTION CONTROL
WASTE MATERIAL SURVEY

(1) COMPANY L. W. D., Inc.

(2) PLANT LOCATION ID 072-2600-0017
ID 077-4020-0042

(3) MAILING ADDRESS P. O. Box 327, Calvert City, Kentucky 42029

(4) DESCRIPTION OF WASTE PRODUCT (i.e. paint sludge, solvent, etc.) Kontro Tank Waste

(5) VOLUME OF WASTE
60,000 gal. + or - year

(6) WASTE GENERATOR 3-09080
Celanese

(7) ~~Physical State~~ @ 70°F (circle one)
SOLID (LIQUID) SEMI-SOLID

(8) General Viscosity @ 70°F (circle one)
(LOW) MEDIUM HIGH

(9) Specific Gravity @ 60°F - .9 + or -

(10) Heat Content (BTU's/LB.) - 12,000 + or -

(11) Non-Combustible (Wt. %) - 0% ash

(12) Chlorine Content (Total Wt. %) - 0% to <.2%

(13) Metallic Content (Specify ppm) - Fe____ Pb____
Cu____ Hg____ N/A
Zn____ Al____

(14) Other Toxic Compounds (Specify ppm) - MIBK 60 - 90%
Phenol 200 ppm

(15) Firm or Agency Performing Chemical Analysis- (Attach certified proximate analysis)
Celanese

To the best of my knowledge and ability, this is a complete and accurate description of this waste material.

(16) SIGNATURE Ernest H. Shelton Jr. TITLE A. H. Shelton, Jr. President

PHONE NUMBER 502-395-7045 DATE September 8, 1980

KENTUCKY DIVISION OF AIR POLLUTION CONTROL
WASTE MATERIAL SURVEY

(1) COMPANY L. W. D., Inc.

(2) PLANT LOCATION ID 072-2600-001
ID 077-4020-004

(3) MAILING ADDRESS P. O. Box 327, Calvert City, Kentucky 42029

(4) DESCRIPTION OF WASTE PRODUCT (i.e. paint sludge, solvent, etc.) Waste solvents

(5) VOLUME OF WASTE
100,000 gal. + or - year

(6) WASTE GENERATOR 4-09080
Celanese

(7) Physical State @ 70°F (circle one)
SOLID (LIQUID) SEMI-SOLID

(8) General Viscosity @ 70°F (circle one)
(LOW) MEDIUM HIGH

(9) Specific Gravity @ 60°F - .75 - 1.0

(10) Heat Content (BTU's/LB.) - 13,000 + or -

(11) Non-Combustible (Wt. %) - 0% ash

(12) Chlorine Content (Total Wt. %) - <.2%

(13) Metallic Content (Specify ppm) - Fe ____ Pb ____
Cu ____ Hg ____ N/A
Zn ____ Al ____

(14) Other Toxic Compounds (Specify ppm) - ____ ____
____ ____
See attachment II ____ ____

(15) Firm or Agency Performing Chemical Analysis- (Attach certified proximate analysis)
Celanese

To the best of my knowledge and ability, this is a complete and accurate description of this waste material.

(16) SIGNATURE Chas H. Shelton Jr. TITLE A. H. Shelton, Jr., President

PHONE NUMBER 502-395-7045 DATE September 8, 1980

ATTACHMENT II

Solvents which might be regarded as toxic which will be included in the waste are:

Light aromatic solvents, e.g., xylene and toluene

Ketone solvents, e.g., acetone, MIBK, MEK

Cellosolves and cellosolve acetates

Other solvents not normally considered toxic are mineral spirits; alcohols, such as methanol, ethanol and butanol; and hydrocarbons, such as hexane, heptane and cyclopentane.

Monomers used in the manufacture of acrylic resins might be mixed in with the solvents examples are: acrylic acid, methyl methacrylate, ethyl acetate, ethylacrylate and styrene monomers.

Some small amounts of resin will generally be dissolved in the solvents the resins will be of the alkyd, epoxy, acrylic, amine or amino type.

Other possible costituents of the waste would be some raw materials such as TETA, DETA, TEA or other amines. Fatty acids or oils might be blended with this waste as could lubricating oils.

Often the waste solvents will have an associated water layer in which the above materials are dissolved to some degree.