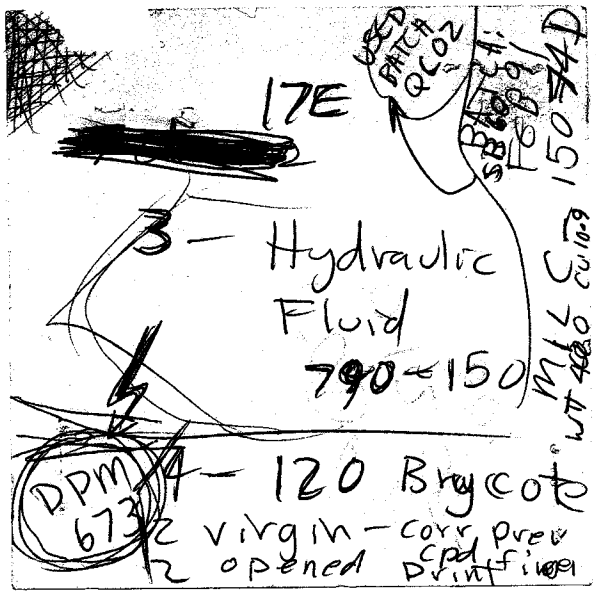


17E

[redacted]

USED BATCH QC02

BATCH: SB60 FEB 91

150 74D

3 — Hydraulic Fluid 790 - 150

MIL C WT 4000 CU 10-9

DPM 673

4 — 120 Brycote

2 virgin — corr prev cpd fine

2 opened print

CODE
012 05-
001

§ 172.101 HAZARDOUS MATERIALS TABLE—Continued

Symbols (1)	Hazardous materials descriptions and proper shipping names (2)	Hazard class or Division (3)	Identification Numbers (4)	Packing group (5)	Label(s) required (if not excepted) (6)	Special provisions (7)	(8) Packaging authorizations (§ 173.***) Exceptions (8A)	Non-bulk packaging (8B)	Bulk packaging (8C)	(9) Quantity limitations Passenger aircraft or railcar (9A)	Cargo aircraft only (9B)	(10) Vessel stowage requirements Vessel stowage (10A)	Other stowage provisions (10B)
	Flammable liquids, corrosive, n.o.s.	3	UN2924	I	FLAMMABLE LIQUID, CORROSIVE.	T42	None	201	243	0.5 L	2.5 L	E	40
				II	FLAMMABLE LIQUID, CORROSIVE.	T15, T26	None	202	243	1 L	5 L	B	40
				III	FLAMMABLE LIQUID, CORROSIVE.	B1, T15, T26	150	203	242	5 L	60 L	A	40
	Flammable liquids, n.o.s.	3	UN1993	I	FLAMMABLE LIQUID.	T42	150	201	243	1 L	30 L	E	
				II	FLAMMABLE LIQUID.	T6, T31	150	202	242	5 L	60 L	B	
				III	FLAMMABLE LIQUID.	B1, B52, T7, T30	150	203	242	60 L	220 L	A	
	Flammable liquids, poisonous, n.o.s.	3	UN1992	I	FLAMMABLE LIQUID, POISON.	T42	None	201	243	Forbidden	30 L	E	40
				II	FLAMMABLE LIQUID, POISON.	T18	None	202	243	1 L	60 L	B	40
	Flammable solids, corrosive, n.o.s.	4.1	UN2925	II	FLAMMABLE SOLID, CORROSIVE.		None	212	242	15 kg	50 kg	D	40
				III	FLAMMABLE SOLID, CORROSIVE.	A1	151	213	242	25 kg	100 kg	D	40
	Flammable solids, n.o.s.	4.1	UN1325	II	FLAMMABLE SOLID		151	212	240	15 kg	50 kg	B	
				III	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	B	
	Flammable solids, poisonous, n.o.s.	4.1	UN2926	II	FLAMMABLE SOLID, POISON.		None	212	242	15 kg	50 kg	B	40
				III	FLAMMABLE SOLID, KEEP AWAY FROM FOOD.	A1	151	213	242	25 kg	100 kg	B	40
	Flares, aerial	1.3G	UN0093	II	EXPLOSIVE 1.3G.		None	62	None	Forbidden	75 kg	B	
	Flares, aerial	1.4G	UN0403	II	EXPLOSIVE 1.4G.		None	62	None	Forbidden	75 kg	A	24E
	Flares, aerial	1.4S	UN0404	II	EXPLOSIVE 1.4S.		None	62	None	25 kg	100 kg	A	9E
	Flares, aerial	1.1G	UN0420	II	EXPLOSIVE 1.1G.		None	62	None	Forbidden	Forbidden	B	
	Flares, aerial	1.2G	UN0421	II	EXPLOSIVE 1.2G.		None	62	None	Forbidden	Forbidden	B	
	Flares, aerial, see Flares, aerial												
	Flares, signal, see Cartridges, signal												
	Flares surface	1.1G	UN0418	II	EXPLOSIVE 1.1G.		None	62	None	Forbidden	Forbidden	B	
	Flares, surface	1.2G	UN0419	II	EXPLOSIVE 1.2G.		None	62	None	Forbidden	Forbidden	B	
	Flares, surface	1.3G	UN0092	II	EXPLOSIVE 1.3G.		None	62	None	Forbidden	75 kg	B	
	Flares, water-activated, see Contrivances, water-activated, *etc.*.												
	Flash powder	1.1G	UN0094	II	EXPLOSIVE 1.1G.		None	62	None	Forbidden	Forbidden	B	1E, 5E
	Flash powder	1.3G	UN0305	II	EXPLOSIVE 1.3G.		None	62	None	Forbidden	Forbidden	B	1E, 5E
	Flue dusts, poisonous, see Arsenical dust.												
	Fluoboric acid	8	UN1775	II	CORROSIVE	A6, A7, B2, B15, N3, N34, T15, T27.	154	202	242	1 L	30 L	A	
	Fluoric acid, see Hydrofluoric acid, solution, *etc.*.												
	Fluorine, compressed	2.3	UN1045		POISON GAS, OXIDIZER.	1	None	302	None	Forbidden	Forbidden	D	40
	Fluoroacetic acid	6.1	UN2642	I	POISON		None	211	242	1 kg	15 kg	E	
	Fluoroanilines	6.1	UN2941	III	KEEP AWAY FROM FOOD.	T8	153	203	241	60 L	220 L	A	
	Fluorobenzene	3	UN2387	II	FLAMMABLE LIQUID.	T8	150	202	242	5 L	60 L	B	
	Fluorophosphoric acid anhydrous	8	UN1776	II	CORROSIVE	A6, A7, B2, N3, N34, T9, T27.	None	202	242	1 L	30 L	A	
	Fluorosilicates, n.o.s.	6.1	UN2856	III	KEEP AWAY FROM FOOD.		153	213	240	100 kg	200 kg	A	26
	Fluorosilicic acid	8	UN1778	II	CORROSIVE	A6, A7, B2, B15, N3, N34, T12, T27.	None	202	242	1 L	30 L	A	
	Fluorosulfonic acid	8	UN1777	I	CORROSIVE	A3, A6, A7, A10, B6, B10, B41, N3, T9, T27.	None	201	242	0.5 L	2.5 L	D	40

BOE-C6-0206245

DPM 673

SAFETY HEALTH AND ENVIRONMENTAL AFFAIRS
AUG 0 0 1993

ORIGINAL

***** MATERIAL SAFETY DATA SHEET *****

Latest Revision Date...07/25/91
Print Date.....02/05/92

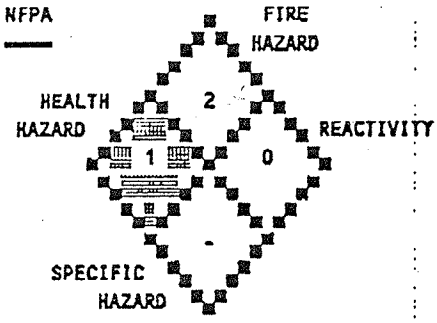
BRAYCOTE 120

SECTION 1 PRODUCT IDENTIFICATION

PRODUCT NAME OR NUMBER..... 01205
MANUFACTURER'S NAME..... CASTROL INC.
COMPANY ADDRESS..... SPECIALTY PRODUCTS DIVISION 16715 VON KARMAN AVENUE, SUITE 230 IRVINE, CA 92714
COMPANY PHONE NUMBER..... (714)-660-9414
PREPARER..... RICHARD DE VICARIIS
CHEMTREC 24-HOUR EMERGENCY PHONE... (800) 424-9300
OUTSIDE CONTINENTAL U.S./COLLECT... (202) 483-7616
TRADE NAME..... BRAYCOTE 120
COMMON NAME..... CORROSION PREVENTIVE (MIL-C-15074)
CHEMICAL FAMILY/CLASSIFICATION..... PETROLEUM HYDROCARBON

SECTION 2 HAZARD RATING (NFPA & HMIS)

NFPA



HMIS RATING

HEALTH HAZARD.....: 1
FIRE HAZARD.....: 2
REACTIVITY.....: 0
PERSONAL PROTECTION : R (Sec.9)*

428 g/l

SECTION 3 HAZARDOUS INGREDIENTS / HAZARD DATA

CHEMICAL NAME(S)	CAS NUMBER	% WT	TLV-TWA	PEL
2-AMINO, 2-METHYL, 1-PROPANOL	124-68-5	< 5	NA	NA
METHYL ISOBUTYL CARBINOL	108-11-2	20-30	NA	NA
MINERAL SPIRITS	64741-65-7	20-30	NA	NA

SECTION 4 PHYSICAL DATA

BOILING POINT @760 mm Hg..... 270° F (132° C)
SPECIFIC GRAVITY (H2O = 1)..... 0.87
VAPOR PRESSURE mm Hg @ 20° C..... ND
VAPOR DENSITY (Air = 1)..... 3.5
PERCENT VOLATILE BY WEIGHT (%)... 65%
EVAPORATION RATE (BuAc = 1)..... 0.33
SOLUBILITY IN WATER..... COMPLETE, SOLUBLE
APPEARANCE..... AMBER LIQUID
ODOR..... CHARACTERISTIC SOLVENT ODOR.
HAZARDOUS POLYMERIZATION:..... WILL NOT OCCUR

(Continued on next page.)

BRAYCOTE 120

SECTION 5 FIRE AND EXPLOSION HAZARD DATA

FLASH POINT °F (Test Method)..... 100° F MIN (PMCC)
FLAMMABILITY LIMITS IN AIR (% V)...
UPPER --..... ND
LOWER --..... ND
EXTINGUISHING MEDIA..... DRY CHEMICAL, CARBON DIOXIDE, FOAM, WATER
SPECIAL FIRE FIGHTING PROCEDURES... USE WATER AS FOG OR SPRAY TO COOL FIRE EXPOSED CONTAINERS. USE SELF CONTAINED BREATHING APPARATUS IN CONFINED AREAS. WARNING: COMBUSTIBLE MATERIAL!
UNUSUAL FIRE & EXPLOSION HAZARDS... EMPTY CONTAINERS MAY RETAIN PRODUCT RESIDUE OR VAPORS WHICH CAN IGNITE EXPLOSIVELY; DO NOT CUT, DRILL OR WELD ON OR NEAR FULL OR EMPTY CONTAINERS.

SECTION 6 HEALTH HAZARD DATA * EFFECTS OF OVEREXPOSURE

HEALTH HAZARDS (Acute and Chronic, If Applicable)
MAY CAUSE MILD EYE IRRITATION. PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE SKIN IRRITATION, DEFATTING. EXCESSIVE INHALATION OF VAPORS MAY CAUSE NASAL/RESPIRATORY IRRITATION, DIZZINESS. INGESTION CAN CAUSE GASTRO-INTESTINAL IRRITATION, NAUSEA, VOMITING, DIARRHEA.

SIGNS/SYMPTOMS OF EXPOSURE:
-- EYE IRRITATION, REDNESS, TEARING, BLURRED VISION.
-- SKIN IRRITATION, DEFATTING, DERMATITUS.
-- RESPIRATORY/NASAL IRRITATION, DIZZINESS, NAUSEA, HEADACHE; POSSIBLY UNCONSCIOUSNESS, ASPHYXIATION.

MEDICAL CONDITIONS GENERALLY AGGREVATED BY EXPOSURE: NONE KNOWN.

SECTION 7 EMERGENCY AND FIRST AID PROCEDURES

SKIN: REMOVE CONTAMINATED CLOTHING. WIPE MATERIAL FROM SKIN. WASH THOROUGHLY WITH SOAP AND WATER.

EYES: FLUSH EYES WITH LARGE AMOUNTS OF CLEAN WATER FOR AT LEAST 15 MINUTES. CONTACT A PHYSICIAN IF IRRITATION PERSISTS.

INGESTION: DO NOT INDUCE VOMITING; ASPIRATION HAZARD. CONSULT A PHYSICIAN IMMEDIATELY.

INHALATION: REMOVE FROM AREA OF EXPOSURE. ADMINISTER OXYGEN IF DEEMED NECESSARY. IF BREATHING HAS STOPPED, ADMINISTER CPR; CONTACT A PHYSICIAN.

SECTION 8 REACTIVITY DATA

PRODUCT STABILITY..... STABLE.
CONDITIONS/MATERIALS TO AVOID..... STRONG OXYDIZING AGENTS.
HAZARDOUS DECOMPOSITION PRODUCTS... TOXIC MATERIALS, CO_2, CO; VARIOUS HYDOCARBONS

SECTION 9 SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: NIOSH/MSHA- APPROVED ORGANIC VAPOR RESPIRATOR OR SUPPLIED AIR RESPIRATORY EQUIPMENT AS REQUIRED.

VENTILATION: PROVIDE SUFFICIENT MECHANICAL, GENERAL AND/OR LOCAL EXHAUST TO MAINTAIN EXPOSURE BELOW TLV. GREATER THAN 60 f3/MIN RECOMMENDED.

SKIN PROTECTION: RESISTANT TYPE GLOVES, SUCH AS NEOPRENE. IMPERVIOUS GARMENTS AS REQUIRED.

EYE PROTECTION: CHEMICAL SPLASH GOGGLES AND/OR SAFETY GLASSES.

 (Continued on next page.)

BRAYCOTE 120

SECTION 9 SPECIAL PROTECTION INFORMATION CONT'D

WORK/HYGIENIC PRACTICES: DO NOT WEAR CONTAMINATED CLOTHING. LAUNDER BEFORE RE-USE OR DISCARD. DO NOT TAKE ANY FOOD OR DRINK, OR HANDLE TOBACCO PRODUCTS WHILE IN CONTACT WITH THIS PRODUCT. WASH THOROUGHLY AFTER USE.

SECTION 10 PRECAUTIONS FOR SAFE HANDLING AND USE

HANDLING & STORAGE INSTRUCTIONS... MAINTAIN AMBIENT TEMPERATURES. AVOID PROLONGED/REPEATED BREATHING OF VAPORS, MISTS, FUMES. KEEP CONTAINER TIGHTLY CLOSED. DO NOT STORE NEAR HEAT, FLAME, STRONG OXIDANTS. MAINTAIN ADEQUATE VENTILATION.

SPILL OR LEAK PROCEDURES..... DO NOT PERMIT PRODUCT TO ENTER SEWERS, STREAMS OR OTHER WATERWAYS. REMOVE ALL SOURCES OF IGNITION. DIKE SPILL AND ELIMINATE LEAK. ABSORB WITH DRY INERT MATERIAL AND STORE IN CLOSED CONTAINERS UNTIL DISPOSAL.

WASTE DISPOSAL METHOD..... ALL RECOVERED MATERIAL SHOULD BE PACKAGED, LABELLED, TRANSPORTED, AND DISPOSED OF OR RECLAIMED IN CONFORMANCE WITH GOOD ENGINEERING PRACTICES. DISPOSE OF BY METHOD IN COMPLIANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS REGARDING HEALTH, AIR AND WATER POLLUTION.

OTHER..... NOTE: THIS PRODUCT CONTAINS A CHEMICAL THAT HAS BEEN LISTED BY CALIFORNIA'S "PROPOSITION 65" AS A CARCINOGEN.

SECTION 11 ADDITIONAL COMMENTS

CERCLA REPORTABLE QUANTITY..... 100 POUNDS
RCRA HAZARDOUS WASTE NUMBER..... D001
D.O.T. SHIPPING CLASSIFICATION.... FLAMMABLE LIQUID, n.o.s.
UN/NA NUMBER..... UN 1993
SARA TITLE III, SECTION 302..... NO EXTREMELY HAZARDOUS CHEMICALS
SECTION 311/312 HAZARD CATEGORY.. FIRE HAZARD
SECTION 313 CHEMICAL/CATEGORY.... NA
EPA TSCA INVENTORY..... ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE EPA TSCA INVENTORY.
NOTE:..... PRODUCT CONTAINS NO MATERIALS CURRENTLY CLASSIFIED AS CARCINOGENIC BY NTP, IARC, OR OSHA.

SECTION 12 NOTICE:

The information contained herein is believed to be accurate and is offered in good faith. Because product use is beyond our control, no warranty is given, expressed or implied. Castrol Inc. cannot assume any liability for the use of information contained herein. To determine applicability or effect of any law or regulation with respect to the product, users should consult a legal advisor or appropriate governmental agency.

CASTROL
MATERIAL SAFETY DATA SHEET

REC'D DEC 15 1987
NON SPM

SECTION 1-IDENTITY

CASTROL INC., BRAY PRODUCTS
16715 VON KARMON AVE
SUITE 230
IRVINE, CA 92714

Emergency
Telephone No. 714 660 9414

Name of Person
Responsible for Preparation: LOU BONA

Date: 1/8/87

Trade Name: BRAYCO MICRONIC 790-150AW

Chemical Name: HYDRAULIC FLUID, PETROLEUM BASED.

Chemical Family: PETROLEUM

SECTION 2-HAZARDOUS INGREDIENTS

Principal Hazardous Component(s) Chemical & Common Names	%	TLV(Units)	CAS#
THIS PRODUCT IS NOT HAZARDOUS NOR DOES IT CONTAIN ANY HAZARDOUS INGREDIENTS.			

SECTION 3-PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point(F) >600 DEG F

Specific Gravity(H2O=1) 0.887

Vapor Pressure(mm Hg) NA

Percent Volatile by Volume(%) NA

Vapor Density(AIR=1) NA

Evaporation Rate NA
N-BUTYL ACETATE = 1

Solubility in Water NEGLIGIBLE

Appearance and Odor DARK AMBER, OILY LIQUID.

SECTION 4-FIRE and EXPLOSION DATA

Flash Point (Method Used)	Flammable Limits in Air %Vol.	Lower	Upper
COC 385 DEG F		NE	NE

Extinguishing Media DRY CHEMICAL, CARBON DIOXIDE, FOAM, WATER FOG

Special Fire Fighting Procedures DO NO USE WATER EXCEPT AS FOG OR SPRAY TO COOL CONTAINERS OR TANKS TO AVOID HEATING ABOVE FLASH POINT.

Unusual Fire and Explosion Hazards NA

SECTION 5-PHYSICAL HAZARDS

Stability (Stable/Unstable) STABLE | Conditions to avoid NA

Incompatibility (Materials to Avoid) AVOID STRONG OXIDIZING AGENTS

Hazardous Decomposition Products COMBUSTION MAY PRODUCE SMOKE, CARBON MONOXIDE AND ASPHYXIANTS.

Hazardous Polymerization (Will/Will Not Occur) WILL NOT OCCUR.

Conditions to Avoid NA

SECTION 6-HEALTH HAZARDS

Threshold Limit Value NOT DETERMINED. USE 5 MG OF OIL MIST IN CUBIC METER OF AIR.

Signs and Symptoms of Exposure

Acute Overexposure: MAY CAUSE SLIGHT IRRITATION TO SKIN AND EYES.

Chronic Overexposure SAME AS ABOVE

Emergency First Aid Procedures

1. Inhalation: REMOVE FROM AREA OF VAPORS.
2. Eyes: FLUSH EYES WITH CLEAR WATER UNTIL IRRITATION SUBSIDES. CONTACT A PHYSICIAN AS SOON AS POSSIBLE.
3. Skin: WIPE OR USE WATERLESS HANDCLEANER, WASH SKIN WITH SOAP AND WATER.
4. Ingestion: DO NOT INDUCE VOMITING, CONTACT A PHYSICIAN.

SECTION 7-SPECIAL PROTECTION INFORMATION

Respiratory Protection (specify type) NOT NORMALLY NEEDED. USE SUPPLIED AIR RESPIRATORY PROTECTION IN CONFINED OR ENCLOSED AREAS.

Ventilation | Local Exhaust USE LOCAL EXHAUST TO CAPTURE FUMES AND VAPORS. | Special PROVIDE GREATER THAN 60 CFM FOR CONFINED AREAS.
| Mechanical (General) | Other

Protective Gloves USE CHEMICALLY RESIS-TANT GLOVES TO AVOID PRO-LONGED CONTACT. | Eye Protection USE SPLASH GOGGLES.

Other Protective Clothing or Equipment USE CHEMICALLY RESISTANT APRON OR OTHER CLOTHING TO AVOID PROLONGED SKIN CONTACT.

SECTION 8-SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken in Handling and Storage NO SPECIAL PRECAUTIONS. AMBIENT CONDITIONS ACCEPTABLE, BUT DO NOT STORE NEAR EXTREME HEAT, OPEN FLAME, OR SOURCES OF IGNITION.

Other Precautions NONE

Steps to be Taken in Case Material is Released or Spilled MOP OR WIPE UP, OR ABSORB WITH CLAY, DIATOMACEOUS EARTH OR OTHER INERT MATERIAL AND STORE IN CLOSED METAL CONTAINERS.

Waste Disposal Methods CONTROLLED INCINERATION OR METHOD IN COMPLIANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS REGARDING HEALTH, AIR AND WATER POLLUTION.

DISCLAIMER

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POTENTIAL HAZARDS

FIRE OR EXPLOSION

Flammable/combustible material; may be ignited by heat, sparks or flames.
Vapors may travel to a source of ignition and flash back.
Container may explode in heat of fire.
Vapor explosion hazard indoors, outdoors or in sewers.
Runoff to sewer may create fire or explosion hazard.

HEALTH HAZARDS

May be poisonous if inhaled or absorbed through skin.
Vapors may cause dizziness or suffocation.
Contact may irritate or burn skin and eyes.
Fire may produce irritating or poisonous gases.
Runoff from fire control or dilution water may cause pollution.

EMERGENCY ACTION

Keep unnecessary people away; isolate hazard area and deny entry.
Stay upwind; keep out of low areas.
Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide limited protection.
Isolate for 1/2 mile in all directions if tank, rail car or tank truck is involved in fire.
CALL CHEMTREC AT 1-800-424-9300 FOR EMERGENCY ASSISTANCE.
If water pollution occurs, notify the appropriate authorities.

FIRE

Small Fires: Dry chemical, CO_2, water spray or regular foam.
Large Fires: Water spray, fog or regular foam.
Move container from fire area if you can do it without risk.
Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Stay away from ends of tanks.
For massive fire in cargo area, use unmanned hose holder or monitor nozzles; if this is impossible, withdraw from area and let fire burn.
Withdraw immediately in case of rising sound from venting safety device or any discoloration of tank due to fire.

SPILL OR LEAK

Shut off ignition sources; no flares, smoking or flames in hazard area.
Stop leak if you can do it without risk.
Water spray may reduce vapor; but it may not prevent ignition in closed spaces.
Small Spills: Take up with sand or other noncombustible absorbent material and place into containers for later disposal.
Large Spills: Dike far ahead of liquid spill for later disposal.

FIRST AID

Move victim to fresh air and call emergency medical care; if not breathing, give artificial respiration; if breathing is difficult, give oxygen.
In case of contact with material, immediately flush eyes with running water for at least 15 minutes. Wash skin with soap and water.
Remove and isolate contaminated clothing and shoes at the site.