Form Approved OMB
No. 44-R1387
Approval Expires:
July 30, 1972

U.S. DEPARTMENT OF LABOR

Form No. OSHA-20
May, 1971

MATERIAL SAFETY DATA SHEET

SECTION I

MANUFACTURER'S NAME	EMERGENCY TELEPHONE NO.
MONSANTO COMPANY	(314) 694-1000

ADDRESS (Number, Street, City, State, and ZIP Code)
800 North Lindbergh Boulevard, St. Louis, Missouri 63166

CHEMICAL NAME AND SYNONYMS	TRADE NAME AND SYNONYMS
	OS 45, Type IV

CHEMICAL FAMILY	FORMULA
Hydraulic Fluid	

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					

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)
Not hazardous by definitions in 29 CFR Section 1501.2		
which pertains to this data sheet.		

SECTION III PHYSICAL DATA

BOILING POINT (1 atm.)	760mm (with decamp) ~300°C		SPECIFIC GRAVITY (H_2O=1) 25/25°C	0.88
VAPOR PRESSURE (mm Hg.)	400°F.	4.7mm	PERCENT VOLATILE BY VOLUME (%)	N.A.
VAPOR DENSITY (AIR=1)		N.A.	EVAPORATION RATE (_____=1)	N.A.
SOLUBILITY IN WATER		Negligible		
APPEARANCE AND ODOR	Clear, amber liquid - Mild, pleasant odor.			

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)		FLAMMABLE LIMITS	Lel	Uel
COC	>370°F.			

EXTINGUISHING MEDIA
Dry powder, CO_2, chemical foam, water fog.

SPECIAL FIRE FIGHTING PROCEDURES

DSW 267278

UNUSUAL FIRE AND EXPLOSION HAZARDS

STLCOPCB4062691

OS 45, Type IV

SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	Not established
EFFECTS OF OVEREXPOSURE	Impossible at ambient temperature. Excessive high temperature may produce irritating vapors.
EMERGENCY AND FIRST AID PROCEDURES	Unlikely to be necessary. Remove to fresh air.

SECTION VI REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	

INCOMPATABILITY *(Materials to avoid)* Moisture

HAZARDOUS DECOMPOSITION PRODUCTS Smoke, soot, CO, CO_2

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Clean up like other non-hazardous liquids.

WASTE DISPOSAL METHOD Same as motor oil.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION *(Specify type)* Not necessary.

VENTILATION	LOCAL EXHAUST: If excessively high temp.	SPECIAL
	MECHANICAL *(General)*: Not necessary.	OTHER

PROTECTIVE GLOVES	Not necessary.	EYE PROTECTION	Not necessary except as good industrial practice.
OTHER PROTECTIVE EQUIPMENT	None		

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Although no special precautions appear necessary, good industrial practice as to housekeeping, personal hygiene,

OTHER PRECAUTIONS avoidance of prolonged and repeated skin contact and splashing in eyes is indicated.

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While the information and recommendations set forth herein are believed to be accurate as of the date hereof, MONSANTO COMPANY MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

HOH:EPW:WPB 3/7/72

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