Form Approved
Budget Bureau No. 44-R1387
Approval Expires April 30, 1971

Form No. LSB-OOS-4
May 1969

U.S. DEPARTMENT OF LABOR

WAGE AND LABOR STANDARDS ADMINISTRATION
Bureau of Labor Standards

MATERIAL SAFETY DATA SHEET

SECTION I

MANUFACTURER'S NAME: Monsanto Co.	EMERGENCY TELEPHONE NO.: 314 OX 7-1000
ADDRESS (Number, Street, City, State, and ZIP Code): 800 N. Lindbergh Blvd. St. Louis, Mo. 63166	
CHEMICAL NAME AND SYNONYMS: Polychlorinated Biphenyl	TRADE NAME AND SYNONYMS: Therminol FR LA-Temp
CHEMICAL FAMILY: Chlorinated Aromatic	FORMULA: See Above

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)
does not constitute a hazardous material status as described. Material is used in a closed heat transfer system.		

SECTION III PHYSICAL DATA

BOILING POINT (°F.) Range	432-627°F	SPECIFIC GRAVITY (H_2O=1) @ 60°F	1.452
VAPOR PRESSURE (mm Hg.) Absolute 100°F	2.7	PERCENT VOLATILE BY VOLUME (%)	unkn.
VAPOR DENSITY (AIR=1)	unkn.	EVAPORATION RATE (_____=1)	unkn.
SOLUBILITY IN WATER	negligible		
APPEARANCE AND ODOR	Clear, watery chlorinated aromatic		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) Pensky-Martens closed tester 388°F	FLAMMABLE LIMITS AIT 1195°F	LEL	UEL
EXTINGUISHING MEDIA water, CO_2			
SPECIAL FIRE FIGHTING PROCEDURES none - material will not support combustion.			
UNUSUAL FIRE AND EXPLOSION HAZARDS none			

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SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALU Not established - Would Recommend 1 MG/M³

EFFECTS OF OVEREXPOSURE Not Likely - Animal work shows slight Tremors Loss of Appitite, And general Lethargy.

EMERGENCY AND FIRST AID PROCEDURES Remove worker from exposure - Remove contaminated clothing Refer to physician - Wash material from skin and eyes.

SECTION VI REACTIVITY DATA

STABILITY			CONDITIONS TO AVOID
	UNSTABLE		
	STABLE	X	

INCOMPATABILITY *(Materials to avoid)*

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS POLYMERIZATION			CONDITIONS TO AVOID
	MAY OCCUR		
	WILL NOT OCCUR	X	

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

absorb leakage with floor cpds, or collect leakage by pumping to a drum.

WASTE DISPOSAL METHOD Dispose by sanitary land fill or by incineration or Contact Monsanto representative

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION *(Specify type)*

VENTILATION		
	LOCAL EXHAUST If Handled At elevated Temperature	SPECIAL
	MECHANICAL *(General)*	OTHER

PROTECTIVE GLOVES Yes - To prevent Solvent defatting of skin

EYE PROTECTION

OTHER PROTECTIVE EQUIPMENT None Needed - However if Clothes Are contaminated they should be Removed AND Laundered before Reuse

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Consult last page of booklet titled "Therminol FR Fluid Heat Syst cms Engineering Heat Transfer Data"

OTHER PRECAUTIONS

Prepared by J K Fallon

Date 6/25/70

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