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MONSANTO COMPANY -- COOLANOL 20 DIELECTRIC HEAT TRANSFER FLUID -- 9160-00-881-8280

Product ID:COOLANOL 20 DIELECTRIC HEAT TRANSFER FLUID MSDS Date:01/01/1987 FSC:9160 NIIN:00-881-8280 MSDS Number: BFTSD === Responsible Party === Company Name: MONSANTO COMPANY Address:800 N LINDBERGH BLVD **City:ST LOUIS** State:MO ZIP:63141 Country:US Info Phone Num:314-694-1000 Emer gency Phone Num:314-694-1000 CAGE:DO969 === Contractor Identification === Company Name: MONSANTO COMPANY Address:800 N LINDBERGH BLVD Box:City:SAINT LOUIS State:MO ZIP:63167 Country:US Phone:314-694-6661 OR 800-332-3111 CAGE:76541 Company Name: MONSANTO COMPANY Address:800 N. LINDBERGH BLVD City:ST. LOUIS State:MO ZIP:63167 Phone:314-694-1000 CAGE:DO969

Ingred Name:ORGANOSILICATE ESTER (PRODUCT OF REACTING SILICON TETRA CHL

ORIDE WITH ANHYDROUS ALCOHOL)

Ingred Name:2,6-DI-TERT-BUTYL-P-CRESOL CAS:128-37-0 RTECS #:GO7875000 Fraction by Wt: 0.5% OSHA PEL:10 MG/M3 ACGIH TLV:10 MG/M3; 9192

Ingred Name:2-ETHYL-1-BUTANOL (PRESENT AS A PRODUCT OF HYDROLYSIS. SEE CASE HISTORY 85098H) CAS:97-95-0 RTECS #:EL3850000

LD50 LC50 Mixture:>15,800 MG/KG ORAL LD50 RAT Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

- Health Hazards Acute and Chronic:PRODUCT CONSIDERED TO BE SEVERLY IRRITATING TO SKIN. EXCESSIVE EXPOSURE TO VAPORS OR MIST OF THIS MATERIAL HAS BEEN REPORTED TO CAUSE RESPIRATORY TRACT IRRITATION. EYE CONTACT MAY CAUSE IRRITATION.
- Explanation of Carcinogenicity:PRODUCT CONTAINS NO MATERIALS CURRENTLY CLASSIFIED AS CARCINOGENIC BY NTP, IARC OR OSHA.
- Effects of Overexposure:CAUSES IRRITATION TO EYES & SKIN;VAP IN HUMID/CLOSED AREA CAUSE HEADACHE,NAUSEA,UNCONSC IOUSNESS,ETC.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

First Aid:EYES:IMMED FLUSH WITH PLENTY OF H2O.REMOVE CONTAMINTD CLOTHG.WASH CLOTHING BEFORE REUSE.GET MED ATTN;SKIN:IMMED WASH W/SOAP & PLENTY OF WATER;VAP INHALATION:IMMED REMOVE FM EXPOSURE AREA.IMMED GET MED ICAL ATTN.

Flash Point Method:COC Flash Point:>230F-

COC
Autoignition Temp:Autoignition Temp Text:550F
Lower Limits:UNK
Upper Limits:UNK
Extinguishing Media:WATER SPRAY,FOAM,DRY CHEM,CO2/OTHR SUITBLE AGENTS FOR CL B.
Fire Fighting Procedures:WEAR SCBA & FULL PROTCTV CLOTHG;ALL EQUIP MUST BE CLEANED
Unusual Fire/Explosion Hazard:NONE NOTED BY MFR;
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Spill Release Procedures: ELIM IGN SOURCES. PROVIDE VENTILATION. USE PROTECTIVE EQUIPMENTS. CONTAIN FLUID. USE VACUUM TO PICK O R ABSORB
ONTO CLAY OR SAWDUST.KEEP WASTE/ABSORBD MATL IN CLOSED CONTAINERS PENDING DISPOSAL;DO NOT DUMP ,SPILL,RINSE,OR WASH INTO SEWERS OR WATERWAYS.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.
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<ul> <li>Handling and Storage Precautions:DO NOT STORE IN OPEN CONTAINERS.MOISTURE MAY DETERIORATE PRODUCT IF STORED IN OPEN CONTAINERS;AVOID PHYSICAL DAMAGE TO CONTAINRS.AVOID SKIN CONTACT.</li> <li>Other Precautions:DONOT EX</li> <li>POSE TO MOISTURE AND HIGH TEMP ENVIRONMENTS WHICH MAY DETERIORATE PROD.; WATER AT HIGH TEMP CAUSES HYDROLYSIS;AVOID BREATHG VAP;WASH THOROUGHLY AFTER HANDLING.AVOID FIRE/IGN CONDITION</li> </ul>
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Respiratory Protection: USE NIOSH APPRVD EQUIP WHEN EXPOSD TO MIST/AEROSOL OR AT ELEVTD TEMP Ventilation: LOCAL EXHAUST: PREFERRED Protective Gloves: N-BUTYL NITRILE Eye Protection: SAFETY/CHEM GOGGLES Other Protective Equipment: AS REQ UIRED TO PREVENT PROLONGED CONTACT. Work Hygienic Practices: WASH IMMEDIATELY IF SKIN IS CONTAMINATED. REMOVE CONTAMINATED CLOTHING PROMPTLY AND WASH BEFORE REUSE. Supplemental Safety and Health MFR MSDS NO.M00006586 DATED 5/1/86; SP GRAVITY RANGE: 0.884-0.890; HAZARDOUS COMPONENTS PER MSDS AND/OR HMTC LETTER DATED 12/5/84-SEE DGSC-STH CAS NO.85098H FOR DETAILS; NOT A SPEC ITEM.
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HCC:N1 Boiling Pt:B.P. Text:>450F. V apor Pres:.02 Spec Gravity:UNK Evaporation Rate & amp; Reference:N.A. Solubility in Water:SLIGHT Appearance and Odor:CLEAR,LIGHT AMBER LIQUID,MILD SWEET ODOR

Stability Indicator/Materials to Avoid:YES
HIGHLY OXIDIZING MATL;H2O AT HIGH TEMP WILL CAUSE HYDRLYSIS
Stability Condition to Avoid:AVOID TEMPERATURES ABOVE 300F;AVOID EXPOSURE TO HOT WATER.
Hazardous Decomposition Products:CO; CO2; SIO2;LOW MOL WT HYDROCARBONS,& P
ARTIAL SILICATES.

Waste Disposal Methods:DISPOSE OF WASTE IN AN APPROVED INCINERATOR IAW LOCAL,STATE & FEDERAL REGULATIONS; MFR SPECIFIED,THIS MATERIAL SHOULD NOT BE DUMPED,SPILLED,RINSED,OR WASHED INTO SEWERS,OR PUBLIC WATERWAYS.

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