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Product ID:COOLANOL 45R; DIELECTRIC HEAT TRANSFER FLUID MSDS Date:05/22/1989 FSC:9160 NIIN:00-237-4777 MSDS Number: BDLZT === Responsible Party === Company Name: MONSANTO CO Address:800 N LINDBERGH BLVD **City:ST LOUIS** State:MO ZIP:63141 Country:US Info Phone Num:314-694-1000 **Emergency Ph** one Num:314-694-1000 (COLLECT) CAGE:76541 === 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

Ingred Name:ORGANOSILICATE ESTER (PRODUCT OF REACTING SILICON TETRA CHLORIDE 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:MINERAL OIL (EXPOSURE REGULATED AS 'OIL MIST') CAS:8012-95-1 RTECS #:PY8030000 Fraction by Wt: 2% OSHA PEL:5 MG/M3 ACGIH TLV:5 MG/M3/10 STEL;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:ORAL RAT LD50=>10,000 MG/KG. Routes of Entry: Inhalation:NO Skin:YES Ingestion:YE S Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:PRODUCT IS PRACTICALLY NON-TOXIC. DERMAL CONTACT IS SLIGHTLY IRRITATING. 6 HR INHALATION STUDIES HAVE SHOWN NO EFFECTS DUE TO THE LOW VOLITILITY OF THE PRODUCT AND THUS LOW EXPOSURE LEVELS. SEE SUPP D ATA. Effects of Overexposure:OTHER THAN SLIGHT IRRITATION, NONE WERE REPORTED. Medical Cond Aggravated by Exposure:NONE REPORTED.

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First Aid:MFR MADE NO COMMENT ON FIRST AID PROCEDURES. FOLLOWING FROM HMIS: EYES:FLUSH WITH WATER 15 MIN. SKIN:REMOVE CONTAMINATED CLOTHING. LAUNDER BEFORE RE-USE. WASH PRODUCT FROM SKIN WITH SOAP AND WATER FLU SH. INHALED:REMOVE TO FRESH AIR. INGESTED:GET IMMEDIATE MEDICAL ATTENTION. IF IRRITATION FROM ANY CONTACT IS SEVERE OR PERSISTS,GET MEDICAL ATTENTION.

Flash Point Method:COC Flash Point:=187.8 C, 370.F 370F/188C Autoignition Temp:=287.8C, 550.F Autoignition Temp Text:505F Extinguishing Media:WATER SPRAY,FOAM,DRY CHEMICAL,CARBON DIOXIDE,OR OTHER MEDIA FOR CLASS B FIRES. Fire Fighting Procedures: WEAR FULL PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS. DECONTAMINATE EQUIPMENT AFTER USE. Unusual Fire/Explosion Hazard: MAY EMIT HAZARDOUS FUME IN FIRE CONDITIONS. Spill Release Procedures: CONTAI N AND RECOVER LIQUID IF POSSIBLE. ABSORB ON CLAY, SAWDUST, ETC. IF NOT. Neutralizing Agent:NONE Handling and Storage Precautions: STORE TIGHTLY CLOSED IN AN AREA FREE FROM IGNITION SOURCES. PROTECT FROM MOISTURE. PRODUCT WILL HYDROLYZE. SEE SUPP DATA. Other Precautions: DO NOT EXPOSE TO MOISTURE AND HIGH TEMP ENVIRONMENTS WHICH MAY DETERIORATE PROD.; WATER AT HIGH TEMP CAUSED HYDROLYSIS; AVOID BREATHG VAP; WASH TH **OROUGHLY AFTER HANDLING.AVOID FIRE/IGN CONDITION** Respiratory Protection:NOT NORMALLY NEEDED. USE NIOSH RESPIRATOR OR SUPPLIED AIR RESPIRATOR IF EXPOSED OVER TLV. Ventilation:NORMAL ROOM VENTILATION IS USUALLY SUFFICIENT. USE ADDITIONAL LOCAL EXHAUST AS NEEDED TO MAINTAIN EXPOSURE BELOW TLV. Protective Gloves:RUBBER,PLASTIC. Eye Protection: SAFETY GLASSES OR SPRAY GOGGLES. Other Protective Equipment: IF USE INVOLVS SP LASHING, ETC. USE APRONS, BOOTS, ETC. TO PREVENT PROLONGED OR REPEATED CONTACT. Work Hygienic Practices: USE GOOD CHEMICAL HYGIENE PRACTICE. AVOID ANY UNNECESSARY EXPOSURE. Supplemental Safety and Health SEE DGSC-SLM CASE HISTORY 85098H. DESCRIBES EXPOSURE CASE HISTORY WITHIN DOD. HCC:V6 Boiling Pt:=340.C, 644.F B.P. Text:644F,340C Vapor Pres: