

COOLANOL 40;DIELECTRIC HEAT TRANSFER FLUID

MSDS Number

BBCPD

National Stock Number

9160-00D000376

Product Name

COOLANOL 40;DIELECTRIC HEAT TRANSFER FLUID

Manufacturer

MONSANTO COMPANY

Product Identification

Product ID:COOLANOL 40;DIELECTRIC HEAT TRANSFER FLUID

MSDS Date:05/01/1986

FSC:9160

NIIN:00D000376

MSDS Number: BBCPD

Responsible Party

MONSANTO COMPANY

800 N. LINDBERGH BLVD

ST. LOUIS , MO 63167

Emergency Phone: 314-694-1000

Info Phone: 314-694-1000

Cage: DO969

Contractor

MONSANTO COMPANY

ST. LOUIS, MO 63167

US

314-694-1000

Cage: DO969

Ingredients

ORGANOSILICATE ESTER (PRODUCT OF REACTING SILICON TETRA

2,6-DI-TERT-BUTYL-P-CRESOL

CAS: 128-37-0

RTECS: GO7875000

Fraction By Weight: 0.5%

OSHA PEL10 MG/M3

ACGIH TLV: 10 MG/M3; 9192

2-ETHYL-1-BUTANOL (PRESENT AS A PRODUCT OF HYDROLYSIS. SEE

CAS: 97-95-0

RTECS: EL3850000

Hazards

LD50 LC50 Mixture:ORAL RAT LD50=5,010 MG/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
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.

First Aid

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 REUSE. WASH PRODUCT FROM SKIN WITH SOAP
AND WATER FLUS H. INHALED:REMOVE TO FRESH AIR. INGESTED:GET
IMMEDIATE MEDICAL ATTENTION. IF IRRITATION FROM ANY CONTACT IS
SEVERE OR PERSISTS,GET MEDICAL ATTENTION.

Fire Fighting

Flash Point Method:COC
Flash Point:435F/224C
Autoignition Temp:Autoignition Temp Text:450F
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 FUMES IN FIRE
CONDITIONS.

Accidental Release

Spill Release Procedures:CONTAIN AND RECOVER LIQUID IF POSSIBLE. ABSORB
ON CLAY,SAWDUST,ETC. IF NOT.
Neutralizing Agent:NONE

Handling

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 CAUSES
HYDROLYSIS;AVOID BREATHG VAP;WASH THOROUGHLY AFTER HANDLING.AVOID
FIRE/IGN CONDITION

Exposure Controls

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 SPLASH GOGGLES.
Other Protective Equipment:IF USE INVOLVES SPLASHING,ETC. USE
APRONS,BOOTS,ETC. TO PREVENT PROLONGED OR REPEATED CONTACT.
Work Hygienic Practices:USE GOOD CHEMICAL HYGIENE PRACTICES. AVOID ANY
UNNECESSARY EXPOSURE.
Supplemental Safety and Health
SEE DGSC-SLM CASE HISTORY 85098H. DESCRIBES EXPOSURE CASE HISTORY
WITHIN DOD.

Chemical Properties

HCC:N1
Boiling Pt:B.P. Text:>698F/370C
Vapor Pres:Vapor Density:19
Spec Gravity:0.879-0.882
Viscosity:9 CST @ 25C
Solubility in Water:VERY LOW

Appearance and Odor: CLEAR, OILY LIQUID, MILD, SWEET ODOR.

Stability

Stability Indicator/Materials to Avoid: YES

STRONG OXIDIZERS, WATER.

Stability Condition to Avoid: MOISTURE, HIGH TEMPERATURES. SEE SUPP DATA.

Hazardous Decomposition Products: NORMAL PRODUCTS OF HYDROCARBON
COMBUSTION PLUS SILICON DIOXIDE AND PARTIAL SILICATE ESTERS.

Disposal

Waste Disposal Methods: DISPOSE I/A/W FEDERAL, STATE, LOCAL REGULATIONS.

MFR SUGGESTS INCINERATION. DO NOT FLUSH TO SEWER OR PUBLIC WATER
WAY.

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