

## **COOLANOL 25R;DIELECTRIC HEAT TRANSFER FLUID**

### **MSDS Number**

BDBKN

### **National Stock Number**

9160-00-138-9799

### **Product Name**

COOLANOL 25R;DIELECTRIC HEAT TRANSFER FLUID

### **Manufacturer**

MONSANTO CO

### **Product Identification**

Product ID:COOLANOL 25R;DIELECTRIC HEAT TRANSFER FLUID

MSDS Date:05/22/1989

FSC:9160

NIIN:00-138-9799

MSDS Number: BDBKN

### **Responsible Party**

MONSANTO CO

800 N LINDBERGH BLVD

ST LOUIS , MO 63141

US

Emergency Phone: 314-694-1000 (COLLECT)

Info Phone: 314-694-1000

Cage: 76541

### **Contractor**

MONSANTO RESEARCH CORP. ST.LOUIS,MO.

SAINT LOUIS, MO 63167

US

314-694-6661 OR 800-332-3111

Cage: 2H066

### **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=>15,800 MG/KG  
Routes of Entry: Inhalation:NO Skin:YES Ingestion:YES  
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.  
Explanation of Carcinogenicity:INGRED 03 AS LISTED BY HMTC IS  
CARCINOGENIC. MFR CLAIMS "NONE". IT COULD BE UNDER 0.1%.  
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. LAUNDRER 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:325F/163C  
Autoignition Temp:Autoignition Temp Text:480F  
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:DONOT 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 SUGFFICIENT. 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 INVOLVS SPLASHING,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.

## Chemical Properties

HCC:N1  
Vapor Pres:Vapor Density:16

Spec Gravity:0.893-0.900  
Viscosity:4.4 CS  
Solubility in Water:NEGLIGIBLE  
Appearance and Odor:CLEAR OILEY 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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