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3M COMPANY -- FC-104 FLUORINERT BRAND FLASHTUBE COOLANT -- 6850-00-408-0547

Product ID:FC-104 FLUORINERT BRAND FLASHTUBE COOLANT MSDS Date:08/20/1996 FSC:6850 NIIN:00-408-0547 MSDS Number: BDXWZ === Responsible Party === Company Name:3M COMPANY Address:3M CENTER BLDG 223-3N City:SAINT PAUL State:MN ZIP:55144-0001 Country:US Info Phone Num:612-733-5454 Emergency P hone Num:612-733-5454 CAGE:76381 === Contractor Identification === Company Name: MINNESOTA MINING AND MFG CO, DBA 3M Address:3M CENTER BLDG 224-5S-04 Box:City:SAINT PAUL State:MN ZIP:55144-1000 Country:US Phone:866-556 5712 / 612-733-1110 CAGE:76381 Company Name: MINNESOTA MINING AND MFG CO PERFOMANCE CHEM AND FLUIDS DIV Address:3M CTR Box:City:SAINT PAUL State:MN ZIP:55144-1000 Country:US Phone:800-364-3577/651-737-6501 CAGE:28112

======= Composition/Information on Ingredients ========

Ingred Name:PERFLUORO COMPOUNDS, C5-18 CAS:86508-42-1 Fraction by Wt: 100.0% Other REC Limits:NONE SPECIFIED

Ingred Name:PRODUCT OF THERMAL DECOMPOSITION! - HYDROGEN FLUORIDE (SARA 302/313) (CERCLA) CAS:7664-39-3 RTECS #:MW7875000 Other REC Limits:NONE RECOMMENDED OSHA PEL:3 PPM (F) ACGIH TLV:C 3 PPM(F); 9495 EPA Rpt Qty:100 LBS DOT Rpt Qty:100 LBS

Ingred Name:PRODUCT OF THERMAL DECOMPOSITION! - PERFLUOROISOBUTYLENE CAS:382-21-8 RTECS #:UD1800000 Other REC Limits:NONE RECOMMENDED ACG IH TLV:C 0.01 PPM; 9495

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:USE IS NOT EXPECTED TO RESULT IN SIGNIFICANT IRRITATION. IF PRODUCT IS EXPOSED TO EXTREME HEAT, TOXIC DECOMPOSITION PRODUCTS MAY INCLUDE HYDROGEN FLUORIDE & PERFLUOROISOBUTYLENE.

Explanation of Carcinogenicity:MANUFACTURER GAVE NO INFORMATION ABOUT

CARCINOGENICITY. HMIS FOUND NO LISTING & DOES NOT EXPECT IT TO BE CARCINOGENIC.

Effects of Overexposure:MFR GAVE NO INFORMATION OF MSDS. Medical Cond Aggravated by Exposure:MFR GAVE NO INFORMATION OF MSDS.

First Aid:EYES:FLUSH WITH LARGE AMOUNTS OF WATER, IF IRRITATION PERSISTS GET MEDICAL ATTENTION. SKIN:WASH AREA W/SOAP & WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. INHALATION:MOVE TO FRESH AIR. I

F SIG NS/SYMPTOMS CONTINUE, GET MEDICAL ATTENTION. INGESTION:NO NEED FOR FIRST AID IS ANTICIPATED.

Flash Point Method:SCC Flash Point:NONE Autoignition Temp:Autoignition Temp Text:NONE Lower Limits:NONFLAMMABLE Upper Limits:NONFLAMMABLE Extinguishing Media:NONFLAMMABLE Fire Fighting Procedures: WEAR SELF-CONTAINED BREATHING APPARATUS & FULL PROTECTIVE CLOTHING. COOL FIRE EXPOSED CONTAINERS W/WATER. **Unusual Fire/Explosi** on Hazard: EXPOSURE TO EXTREME HEAT MAY CAUSE THERMAL DECOMPOSITION. Spill Release Procedures: PROVIDE EXHAUST VENTILATION FOR LARGE SPILLS OR CONFINED SPACES. COLLECT SPILL W/ABSORBENT & PLACE IN APPROVED CONTAINER. Neutralizing Agent:MFR GAVE NO INFORMATION OF MSDS. Handling and Storage Precautions: STORE AT ROOM TEMPERATURE. DO NOT SMOKE WHIL E HANDLING THIS PRODUCT. Other Precautions: THIS PRODUCT IS FOR INDUSTRIAL USE ONLY. IT IS NOT INTENDED FOR USE AS A MEDICAL DEVICE OR DRUG. Respiratory Protection: AVOID PROLONGED BREATHING OF VAPORS. USE NIOSH APPROVED SUPPLIED AIR RESPIRATOR TO AVOID BREATHING THERMAL DECOMPOSITION PRODUCTS. Ventilation: USE LOCAL EXHAUST TO KEEP EXPOSURE 1 (BUTYL ACETATE=1) Solubility in Water:NIL Appearance and Odor:COLORLESS ODO

RLESS LIQUID. Percent Volatiles by Volume:100

Stability Indicator/Materials to Avoid:YES FINELY DIVIDED ACTIVE METALS, ALKALI AND ALKALINE EARTH METALS. Stability Condition to Avoid:HIGHLY STABLE UNLESS SEVERELY OVERHEATED. Hazardous Decomposition Products:MFR GAVE NO INFORMATION OF MSDS. Conditions to Avoid Polymerization:WILL NOT OCCUR.

Waste Disposal Meth

ods:INCINERRATE IN THE PRESENCE OF COMBUSTIBLE MATERIAL IN AN INDUSTRIAL OR COMMERCIAL FACILITY CAPEABLE OF HANDLING HALOGENATED WASTE. RECLAIM IF FEASIBLE. FOR MORE INFORMATION, CONTACT YOUR DISTRIBUTER.

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