MINNESOTA MINING & MFG CO INDUSTRIAL CHEM PRODUCTS -- FC-72 FLUORINERT BRAND ELECTRONIC LIQUID (SUPPLEMENTAL) -- 6850-01-125-5270

Product ID:FC-72 FLUORINERT BRAND ELECTRONIC LIQUID (SUPPLEMENTAL) MSDS Date:12/02/1992 FSC:6850 NIIN:01-125-5270 MSDS Number: BGMZN === Responsible Party === Company Name: MINNESOTA MINING & MFG CO INDUSTRIAL CHEM PRODUCTS Address:3M CTR City:ST PAUL State:MN ZIP:55144 Country:US Info Phone Num:612 -733-1000 Emergency Phone Num:612-733-5454 CAGE:28112 === 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 I ngredients ======== Ingred Name: PERFLUORO COMPOUNDS, PRIMARILY COMPOUNDS WITH 6 CARBONS) CAS:86508-42-1 Fraction by Wt: 100% Other REC Limits:NONE RECOMMENDED Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:SKIN/EYE:NOT EXPECTED TO RESULT IN SIGN IRRIT.AFT PROD HAS BEEN IN USE CONTAMINANTS MAY BE INTRO THAT MAY CAUSE S

KIN/EYE IRRIT.INHAL:NOT EXPECTED UNLESS PROD IS **OVERHEATED & DECOMPOSITION OCCURS. INGE ST:NOT A LIKELY ROUTE OR** EXPO.CONTAMINANTS MAY EVOLVE DURING USE OF PROD WHICH CAN BE TOXIC IF INGEST. Explanation of Carcinogenicity: THERE ARE NO INGREDIENTS ABOVE 0.1% WHICH ARE IDENTIFIED AS CARCINOGENS BY NTP, IARC OR OSHA. Effects of Overexposure:EYES:REDNESS,SWELLING,PAIN,TEARING.SKIN:REDNESS,SWELLI NG.ITCHING. Medical Cond Aggravated by Exposure:NOT REPORTED. \_\_\_\_\_ First Aid:EYE:IMMED FLUSH W/LG AMTS OF WATER. GET IMMED MED ATTN. SKIN:WASH W/SOAP & WATER, FLUSH SKIN W/LG AMTS OF WATER, IF IRRIT PERSISTS GET MED ATTN. INHAL: IF SIGNS/SYPMTOMS OCCUR REMOVE PERSON TO FRESH. I F SIGNS/SYPMTOMS CONTINUE CALL PHYSICIAN. INGEST:DRINK TWO GLASSES OF WATER. CALL PHYSICIAN. Flash Point Method:SCC Flash Point:NONE **Extinguishing Medi** a:NOT APPLICABLE HOWEVER USE APPROPRIATE EXTINGUISHING MEDIA FOR SURROUNDING MATL/FIRE. Fire Fighting Procedures: WHEN FIRE CONDITIONS ARE SEVERE/TOT THERM DECOMP OF PROD POSSIBLE WEAR FULL PORT CLOTH(HELMET.SCBA +PRESS/PREE DEMAND, BUNKER COAT/PANTS, BANDED ARMS/WAIST/LEGS) Unusual Fire/Explosion Hazard:CARBON MONOXIDE, CARBON DIOXIDE, HYDROGEN FLUORIDE, PERFLUOROISOBUTYLENE(PFIB), TRACE DECOMPOSIITIN @200C & INCREASED DECOMPOSITION W/INCREASED SURFACE TEMP. \_\_\_\_\_ 

Spill Release Procedures:OBSERVE PRECAUTIONS FROM MSDS.VENTILATE AREA.CONTAIN SPILL.COVER W/INORG ABSORBENT MATL.COLLECT SPILLED MATL.CLEAN UP RESIDUE W/APPROPRIATE ORG SOLVENT.READ/FOLLOW SAF PRECAUTIONS ON SOLVENT LABEL/MSD S.PLACE IN APPROVED METAL CNTNR & SEAL.

Handling and Storage Precautions:DO NOT STORE CNTNRS ON THEIR SIDES.STORE @RM TEMP.KEEP CNTNR

CLSD WHEN NOT IN USE.KEEP CNTNR TIGHTLY CLSD.AVOID EYE CONTACT & PROLONGED BREATH OF VAP. Other Precautions: IF PROD IS EXPO TO EXTREME CONDITION OF HEAT FROM MISUSE/EQPMT FAILURE TOXIC DECOMPOSITION PROD THAT INCLUDE HYDROGEN FLUORIDE & PERFLUOROISOBUTYLENE CAN OCCUR. FOR INDUSTRIAL USE ONLY. NOT INTENDED F OR USE AS MEDICAL DEVICE OR DRUG. Respiratory Protection: AVOID BREATH THERM DECOMP PROD. SELECT ONE OF FOLLOWING NIOSH APPROVED RESP BASED ON AIRBORNE CONC OF CONTAMINANTS & IAW OSHA REGS: HALF-MASK SUPPLIED AIR RESP, FULL-FACE SUPPLIED AIR RESP. Ventilation:LOC EXHAU VENTI W/MIN CAPTURE VEL OF 50LINEAR FT/MIN SHOULD BE PROVIDED FOR @/>BPT.IF INTERFERING AIR CURRENTS (SUPPLEM) Protective Gloves:NOT NEEDED IN NORMAL SERVICE. Eye Protection: SAFETY GLASSES W/SIDE SHIELDS Other Protective Equipment: PROVIDE A LOCAL EYE WASH STATION AND SAFETY SHOWER. Work Hygienic Practices: USE REASONA **BLE CARE IN HANDLING THIS** PRODUCT.WASH HANDS AFTER USE AND BEFORE EATING. Supplemental Safety and Health 3M ID#:ZF-0002-0802-3;98-0211-0216-9;98-0211-0217-7;98-0211-0267-2;98-0211-1795-1;98-0211-4860-0;98-0211-5506-8;98-0211-5533-2;98-0211-64 14-4;98-0211-7346-7;98-0211-7992-8. VENTILATION:PRESENT MIN CAP TURE VEL SHOULD BE @LEAST 100LINEAR FT/MIN. HCC:N1 Boiling Pt:B.P. Text:133F/56C Decomp Temp:Decomp T ext:392F,200C Vapor Pres:232 @RT

Vapor Density:11.7 @RT

Spec Gravity:1.7 Viscosity:0.4SCS

Evaporation Rate & amp; Reference:>1.0 (N-BUTYL ACETATE=1)

Solubility in Water:NIL

Appearance and Odor:COLORLESS, CLEAR, ODORLESS 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:TEMPERATURES ABOVE 392F. Hazardous

## Decomposition Products:CO,CO2,HYDROGEN FLUORIDE,PERFLUOROISOBUTYLENE(PFIB),TRACE DECOMP @200C & INCREASED DECOMP W/INCREASED SURFACE TEMP.

Waste Disposal Methods:INCINERATE IN INDUSTRIAL/COMMERCIAL FACILITY IN PRESENCE OF COMBUSTIBLE MATL.COMBUSTION PROD WILL INCLUDE HF.RECLAIN IF FEASIBLE.TO RECLAIN/RETURN CONTACT YOUR 3M SALES REPRESENTATIVE.SINCE REGS VARY CONSULT APPLICABLE REGS/AUTHOR BEFORE DISPO

SAL.

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