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Product ID:FC 41 FLUORINERT BRAND ELECTRONIC LIQUID (SEE SUPPLEMENT) MSDS Date:01/29/1998 FSC:6850 NIIN:01-198-3079 MSDS Number: BGQJZ === 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:612-733-5454/612-733-1110 Emergency Phone Num:1-800-364-3577 Preparer's Name: (MSDS DOC#10-3784-5) CAGE:28112 === Contractor Identification === Company Name: EMULTEC INDUSTRIAL PRODUCTS INC Address:1150 HAYDEN DR SUITE 100 Box:City:CHARROLLTON State:TX ZIP:75006 Country:US Phone:972-417-1288 Contract Num:SP0450-00-M-D494 CAGE:0WA27 Company Name: MINNESOTA MINING AND MFG CO PERFOMANCE CHEM AND FLUIDS DIV Address:3M CTR Box:City:SAINT P AUL State:MN ZIP:55144-1000 Country:US Phone:800-364-3577/651-737-6501 CAGE:28112 Ingred Name: PERFLUORO COMPOUNDS, C5-18 CAS:86508-42-1 Fraction by Wt: 100% Other REC Limits:NONE RECOMMENDED LD50 LC50 Mixture:NOT KNOWN Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:

EYE/SKIN:NO ADVERSE HEALTH EFFECTS EXPECTED. AFTER MATL HAS BEEN IN USE CONTAMINANTS MAY BE INTRODUCED THAT MAY CAUSE EYE/SKIN IRRIT. INHAL:NO ADVERSE HEALTH EFFECTS ARE EXPECTED UNLESS PRODUCT IS OVE RHEATED & DECOMPOSITION OCCURS. INGEST:NO ADVERSE HEALTH EFFECTS ARE EXPECTED. Effects of Overexposure:EYE:REDNESS, SWELLING, PAIN, TEARING. SKIN:REDNESS, SWELLING, ITCHING. INHAL:COUGHING. Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

First Aid:EYE:FLUSH W/LARGEG AMTS OF WATER. GET IMMED MED ATTENTION. SKIN: WASH AREA W/SOAP & WATER. INHAL:IF SIGNS/SYMPTOMS OCCUR REMOVE PERSON TO FRESH AIR. IF THEY CONTINUE CALL DOCTOR. SWALLOWED: NO NEED FO R FIRST AID IS ANTICIPATED. CONSULT A PHYSICIAN.

Flash Point Method:SCC Flash Point:NONE Extinguishing Media:NONFLAMMABLE. Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTH W/HELMET,SCBA & + PRESSURE OR PRESSURE DEMAND,BUNKER COAT & PANTS,BANDS AROUND ARMS/WAIST/LEGS,FACE MASK & COVERING FOR EXPOSED HEAD. Unusual Fire/Explosion Hazard:EXPOSURE TO EXTREME HEAT CAN GIVE RISE TO THERMAL DECOMPOSITION. IF THE PRODUCT IS EXPOSED TO EXTREME CONDITION OF HEAT FROM MISUSE OR EQUIPMENT FAILURE, TOXIC DECOMPOSITION PRODUCTS THAT INCLUDE HYD ROGEN FLUORIDE AND PERFLUOROISOBUTYLENE CAN OCCUR.

======= Accidental Relea

Spill Release Procedures:OBSERVE PRECAUTIONS FROM OTHER SECTIONS OF MSDS. COLLECT SPILLED MATERIAL WITH AN ABSORBENT. PLACE IN AN APPROVED CONTAINER. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling and Storage Precautions:STORE IN ROOM TEMPERATURE. NO SMOKING WHILE HANDLING THIS MATERIAL. FOR INDUSTRIAL USE ONLY. NOT INTENDED FOR USE AS A MEDICAL DEVICE OR DRUG. Oth er Precautions: AVOID PROLONGED BREATHING OF VAPORS. AVOID INHALATION OF THERMAL DECOMPOSITION PRODUCTS.

======= Exposure Controls/Personal Protection ==========

Respiratory Protection: IF THERMAL DECOMPOSITION OCCURS SELECT ONE OF THE FOLLOWING NIOSH-APPROVED RESPIRATORS BASED ON AIRBORNE CONCENTRATION OF CONTAMINANTS AND IN ACCORDANCE WITH OSHA REGULATIONS: HALF-MASK SUPPLIED AIR RE SPIRATOR, FULL-FACE SUPPLIED AIR RESPIR.

Ventilation:LOCAL EXHAUST VENTILATION W/A

MINIMUM CAPTURE VEL=50 LINEAR

FT/MIN IF INTERFERING AIR CURRENTS ARE PRESENT USE 100FT/MIN Protective Gloves:NONE AT ROOM TEMP

Eye Protection:SAFETY GLASSES W/SIDE SHIELDS.

Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices:WASH HANDS AFTER HANDLING & BEFORE

EAT/SMOKE/DRINK. NO SMOKING WHILE HANDLING THIS MATERIAL.

Supplemental Safety and Health

3M ID NO:98-0211-0924-8; 98-0211-0925-5; 98-0211-3976-5;

98-0211-3977-3. THIS MSDS SUPERSEDES 31AUG92.

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HCC:N1 Boiling Pt:=139.C, 282.2F B.P. Text:139-189C (TYPICAL) Vapor Pres:3 MMHG Vapor Density:22.5 Spec Gravity:1.9 Viscosity:2.7 CENTISTOKE Evaporation Rate & amp; Reference:>1(BUO AC=1) Solubility in Water:NIL Appearance and Odor:COLORLESS,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:HIGH TEMPERATURES. Hazardous Decomposition Products:THERM DECOMPOSITION MAY PRODUCE TOXIC VAPORS/GASES,CARBON MONOXIDE,CARBON DIOXIDE,HYDROGEN FLUORIDE,PERFLUOROISOBUTYLENE.
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Ecological:CHEMICAL OXYGEN DEMAND: NIL. 20 DAY OXYGEN DEMAND: NIL. THIS SUBSTANCE DID NOT DEGRADE SIGNIFICANTLY IN READY BIODEGRADATION TEST. THIS COMPOUND IS COMPLETELY FLUORI NATED (PERFLUORINATED), OR
IT CONTA INS PERFLUORINATED PORTIONS. PERFLUOROALKYL GROUPS RESIST DEGRADATION IN MOST NATURAL ENVIRONMENTS. HAS INSIGIFICANT TOXICITY TO AQUATIC ORGANISMS. NO DATA ARE AVAILABLE ON THE TOXICITY EFFECTS OF THI S SUBSTANCE ON WASTEWATER TREATMENT SYSTEMS.
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Waste Disposal Methods:AS A DISPOSAL ALTERNATIVE, INCNERATE IN THE PRESENCE OF A COMBUSTIBLE MATERIAL IN AN INDUSTRIAL OR COMMER CIAL
FACILTY CAPABLE OF HANDLING HALOGENATED WASTE. RECLAIM IF FEASIBLE. FOR INFORMATION ON PRO DUCT RETURN, CONTACT YOUR DISTRIBUTOR.
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Transport Information:NOT REGULATED BY ALL MODES OF TRANSPORTATION.
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SARA Title III Information:EPCRA HAZARD CLASS: NONE.EPCRA 311/312 RQ: NONE. SEC 307 TOXIC POLLUTANT: NONE. US EPA HAZ WASTE NUMBER: NONE. Feder
al Regulatory Information:THE COMPONENTS OF THIS PRODUCT ARE IN COMPLIANCE WITH THE CHEMICAL REGISTRATION REQUIREMENTS OF TSCA, CDSL, AICS.
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