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MINNESOTA MINING & MFG CO INDUSTRIAL CHEM PRODUCTS -- FC-77 FLUORINERT BRAND ELECTRONIC LIQUID -- 6850-00-905-9098

Product ID:FC-77 FLUORINERT BRAND ELECTRONIC LIQUID

MSDS Date:07/08/1999

FSC:6850

NIIN:00-905-9098

MSDS Number: BFVYD === Responsible Party ===

Company Name: MINNESOTA MINING & MFG CO INDUSTRIAL CHEM PRODUCTS

Address:3M CTR City:SAINT PAUL

State:MN

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IP:55144 Country:US

Info Phone Num:800-364-3577

Emergency Phone Num:612-737-6501 Resp. Party Other MSDS Num::10-3791-0

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:800-3

64-3577/651-737-6501

CAGE:28112

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

Ingred Name:PERFLUORO COMPOUNDS, C5-18 (PRIMARILY COMPOUNDS WITH 8

CARBONS) CAS:86508-42-1 = Wt:100.

Other REC Limits: NONE RECOMMENDED

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS NOT KNOWN. Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chro

nic:TARGET ORGANS:EYES, SKIN. ACUTE-

EYE/SKIN: CONTACT IS NOT EXPECTED TO RESULT IN SIGNIFICANT IRRITATION. INHALATION: NO ADVERSE EFFECTS ARE EXPECTED UNLESS THE PRODUCT IS OVER HEATED AND DECOMPOSITION OCCURS. ORAL:INGESTION IS NOT A LIKELY ROUTE OF EXPOSURE TO THIS PRODUCT. PRACTICALLY NON-TOXIC. CHRONIC- UNKNOWN.

Explanation of Carcinogenicity:NONE SPECIFIED BY MANUFACTURER Effects of Overexposure:DERMAL: MINIMALLY IRRITATING. Medical Cond Aggravated by Exposure:NONE SPE CIFIED BY MANUFACTURER

First Aid:EYES: IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF WATER. GET IMMEDIATE MEDICAL ATTENTION. SKIN CONTACT: WASH AFFECTED AREA WITH SOAP AND WATER. INHALATION: IF SIGNS/SYMPTOMS OCCUR, REMOVE PERSON TO FRESH AIR. IF SIGNS/SYMPTOMS CONTINUE, CALL A PHYSICIAN. INGESTED: NO NEED FOR FIRST AID IS ANTICIPATED.

========= Fire Fighting Measures ============

Flash Poi

nt Method:SCC

Flash Point:NONE

Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL FOR SURROUNDING FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING, INCLUDING HELMET, BUNKER PANTS AND COAT, BANDS ON LEGS/ARMS, PROTECTIVE COVERING ON HEAD AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERAT ED IN POSITIVE PRESSURE MODE. NO UNUSUAL EFFECTS ARE ANTICIPATED DURING FIRE E

XTINGUISHING

OPERATIONS.

Unusual Fire/Explosion Hazard: EXPOSURE TO EXTREME HEAT CAN GIVE RISE TO THERMAL DECOMPOSITION.

========= Accidental Release Measures ============

Spill Release Procedures:OBSERVE PRECAUTIONS FROM OTHER SECTIONS. IN ACCORDANCE WITH GOOD INDUSTRIAL PRACTICE, PROVIDE EXHAUST VENTILATION FOR LARGE SPILLS OR IN CONFINED SPACES. COLLECT SPILLED MATERIAL WITH AN ABSORBENT. PL ACE IN AN APPROVED CONTAINER. Neutralizing Agent:NONE SPECIFIED

=========== Handling and Storage ================

Handling and Storage Precautions:STORE UNDER NORMAL WAREHOUSE CONDITIONS. KEEP AWAY FROM INCOMPATIBLE MATERIALS. NO SMOKING WHILE USING THIS PRODUCT. SMOKING WHILE USING THIS PRODUCT CAN RESULT IN CONTAMINATION OF THE TOBACCO AND/OR SMOKE AND LEAD TO HAZARDOUS DECOMPOSITION PRODUCTS.

Other Precautions:IF THE PRODUCT IS EXPOSED TO EXTREME CONDITION OF HEAT FROM MISUSE OR EQUIPMENT FAILURE, T

OXIC DECOMPOSITION PRODUCTS

THAT INCLUDE HYDROGEN FLUORIDE AND PERFLUOROISOBUTYLENE CAN OCCUR.

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

Respiratory Protection: AVOID BREATHING OF THERMAL DECOMPOSITION PRODUCTS. SELECT ONE OF THE FOLLOWING NIOSH APPROVED RESPIRATORS BASED ON AIRBORNE CONCENTRATION IAW OSHA REGULATIONS: HALF-MASK SUPPLIED AIR RESPIRATOR, FULL- FACE SUPPLIED AIR RESPIRATOR.

Ventilation:IF HEATED TO DECOMPOSITION: APPRORIATE LOCAL EXHAUST VENTILATION SUFFICIENT TO MAINTAIN LEVELS OF DECOMPOSITION PRODUCTS BELOW THIER EXPOSURE GUIDELINES.

Protective Gloves:GLOVES ARE NOT REQUIRED.

Eye Protection: WEAR SAFETY GLASSES WITH SIDE SHIELDS.

Other Protective Equipment:EYE WASH STATION, SAFETY SHOWER, PROTECTIVE CLOTHING

Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT EAT/DRINK WHILE WORKING WITH THIS PRODUCT.

Supplemental Safety and Health

FOR INDUSTRIAL USE ONLY. NO

T INTENDED FOR USE AS A MEDICAL DEVICE OR

DRUG. HYDROGEN FLUORIDE HAS AN ACGIH THRESHOLD LIMIT VALUE (TLV) OF 3 PARTS PER MILLION PARTS AIR AND AN OSHA PEL OF 3 PPM FLUORIDE AS AN 8-HOUR TIME-WEIGHTED AVERAGE AND6 PPM FLUORIDE AS A SHORT-TERM EXPOSURE LIMIT (STEL).

======== Physical/Chemical Properties ==========

HCC:N1

Boiling Pt:1 (N-BUTYL ACETATE=1)

Solubility in Water:NIL

Appearance and Odor: COLORLESS LIQUID - ODORLESS

Percent Volatiles by Volume:100

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Stability Indicator/Materials to Avoid:YES FINELY DIVIDED ACTIVE METALS, ALKALI AND ALKALINE EARTH METALS Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER. DLA-HMIS: EXTREME HEAT Hazardous Decomposition Products:MAY FORM CARBON MONOXIDE, CARBON DIOXIDE, HYDROGEN FLUORIDE AND PERFLUOROISOBUTYLENE. Conditions to Avoid Polymerization:WILL NOT OCCUR.
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Toxicological Information:NONE SPECIFIED BY MANUFACTURER.
========= Ecological Information ============
Ecological:BIODEGRADATION: CHEMICAL OXYGEN DEMAND (COD): NIL. 20-DAY BIOCHEMICAL OXYGEN DEMAND (BOD20): NIL. AQUATIC TOXICITY: FATHEAD MINNOW (PIMEPHALES PROMELAS) 96 HR: LL50>1000 MG/L. WATER FLEA (DAPHNIA MAGN A) 48-HR EL50: >1500 MG/L.
======= Disposal Considerations ==========
Waste Disposal Methods:AS A DISPOSAL ALTERNA TIVE, INCINERATE IN THE PRESENCE OF A COMBUSTIBLE MATERIAL IN AN INDUSTRIAL OR COMMERCIAL FACILITY CAPABLE OF HANDLING HALOGENATED WASTE. RECLAIM IF FEASIBLE. FOR INFORMATION ON P RODUCT RETURN, SEE YOUR DISTRIBUTOR
======== MSDS Transport Information ==========
Transport Information:TRANSPORTATION INFORMATION: NOT REGULATED ALL MODES.
=========== Regulatory Information ============
SARA Title III Information:EPCRA 311/312 REPORTABL E QUANTITY = NOT REPORTABLE.
Federal Regulatory Information:SINCE REGULATIONS VARY, CONSULT APPLICABLE REGULATIONS OR AUTHORITIES BEFORE DISPOSAL. US CLEAN WATER ACT, SECTION 307, TOXIC POLLUTANTS = NONE. US EPA HAZARDOUS WASTE NUMBER = NONE. THE COMPONENTS OF THIS PRODUCT ARE IN COMPLIANCE WITH THE REQUIREMENTS OF: TSCA.
State Regulatory Information:NONE SPECIFIED BY MANUFACTURER
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th this information by the compiling agencies):

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