

MINNESOTA MINING AND MFG CO -- 10-3943-7 FC-5311 FLUORINERT BRAND  
ELECTRONIC LIQUID -- 6850-00F041209

## ===== Product Identification =====

Product ID:10-3943-7 FC-5311 FLUORINERT BRAND ELECTRONIC LIQUID  
MSDS Date:07/01/1988  
FSC:6850  
NIIN:00F041209  
MSDS Number: BXNGH  
=== Responsible Party ===  
Company Name:MINNESOTA MINING AND MFG CO  
Address:3M CTR  
City:ST. PAUL  
State:MN  
ZIP:55144-1000  
Country:US  
Info Phone Num:612-733-1110  
Emergency Phone Num:612-733-1110  
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

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

Ingred Name:PHENANTHRENE, TETRACOSAFLOURATETRADECAHYDRO  
CAS:306-91-2  
Fraction by Wt: 100%

## ===== Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:EYES/SKIN: MAY CAUSE IRRITATION.  
INGESTION: TOXIC.  
Explanation of Carcinogenicity:NONE  
Effects of Overexposure:IRRITATION.

## ===== First Aid Measures =====

First Aid:EYES: FLUSH W/PLENTY OF WATER. SKIN: WASH AREA W/SOAP &  
WATER. INHALATION: REMOVE TO FRESH AIR. OBTAIN MEDICAL ATTENTION IN  
ALL CASES.

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

Flash Point Method:SCC  
Flash Point:NONE  
Extinguishing Media:NOT FLAMMABLE  
Unusual Fire/Explosion Hazard:TOXIC BY PRODUCTS MAY FORM UPON  
DECOMPOSITION.

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

Spill Release Procedures:OBSERVE PRECAUTIONS FROM OTHER SECTIONS. COVER  
W/INORGANIC ABSORBENT MATERIAL. COLLECT MATERIAL. PLACE IN A CLOSED  
CONTAINER.

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Handling and Storage

Handling and Storage Precautions:AVOID PROLONGED BREATHING OF VAPORS.  
AVOID EYE CONTACT.

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Exposure Controls/Personal Protection

Respiratory Protection:AN AIR SUPPLIED RESPIRATOR SHOULD BE WORN.  
Ventilation:LOCAL EXHAUST RECOMMENDED FOR TEMPS >/AT BOILING POINT.  
Protective Gloves:NONE REQUIRED  
Eye Protection:SAFETY GLASSES  
Work Hygienic Practices:USE W/GOOD INDUSTRIAL HYGIENE PRACTICES. DON'T  
SMOKE WHEN USING THIS PRODUCT.  
Supplemental Safety and Health

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Physical/Chemical Properties

Boiling Pt:B.P. Text:(SEE SUPP)  
Vapor Pres: 0.15  
Vapor Density: 21.5  
Spec Gravity: 2  
Evaporation Rate & Reference:(BU O AC = 1): <1  
Solubility in Water:0  
Appearance and Odor:CLEAR COLORLESS LIQUID  
Percent Volatiles by Volume: 100

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Stability and Reactivity Data

Stability Indicator/Materials to Avoid:YES  
ACTIVE METALS, ALKALI & ALKALINE EARTH METALS.  
Hazardous Decomposition Products:MAY PRODUCE TRACE AMOUNTS OF HAFNIUM &  
IN SOME CASES PERFLUOROISOBUTYLENE.

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Disposal Considerations

Waste Disposal Methods:DISPOSE OF IAW/FEDERAL, STATE & LOCAL  
REGULATIONS.

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