

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

===== Product Identification =====

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 =====

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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

===== Hazards Identification =====

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 Measures =====

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.

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

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.

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

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 =====

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.

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

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 and Reactivity Data =====

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.

===== Disposal Considerations =====

Waste Disposal Methods:INCINERATE IN THE PRESENCE OF COMBUSTIBLE
MATERIAL IN AN INDUSTRIAL OR COMMERCIAL FACILITY CAPABLE OF
HANDLING HALOGENATED WASTE. RECLAIM IF FEASIBLE. FOR MORE
INFORMATION, CONTACT YOUR DISTRIBUTER.

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