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MINNESOTA MINING & MFG CO INDUSTRIAL CHEM PRODUCTS -- FC-40 FLUORINERT BRAND ELECTRONIC LIQ (SEE SUPPLEM FOR ID#) -- 6850-01-194-6614

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

Product ID:FC-40 FLUORINERT BRAND ELECTRONIC LIQ (SEE SUPPLEM FOR ID#)

MSDS Date:02/18/1994

FSC:6850

NIIN:01-194-6614

MSDS Number: BGQHG === Responsible Party ===

Company Name: MINNESOTA MINING & MFG CO INDUSTRIAL CHEM PRODUCTS

Addr

ess:3M CTR City:ST PAUL State:MN ZIP:55144 Country:US

Info Phone Num:612-733-5454

Emergency Phone Num:612-733-5454/612-733-1110

Preparer's Name:(DOC #:10-3783-7)

CAGE:28112

=== Contractor Identification ===

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 ========

Ingred Name:PERFLUORO COMPOUNDS, (PRI MARILY COMPOUNDS WITH 12 CARBONS)

CAS:86508-42-1 Fraction by Wt: 100%

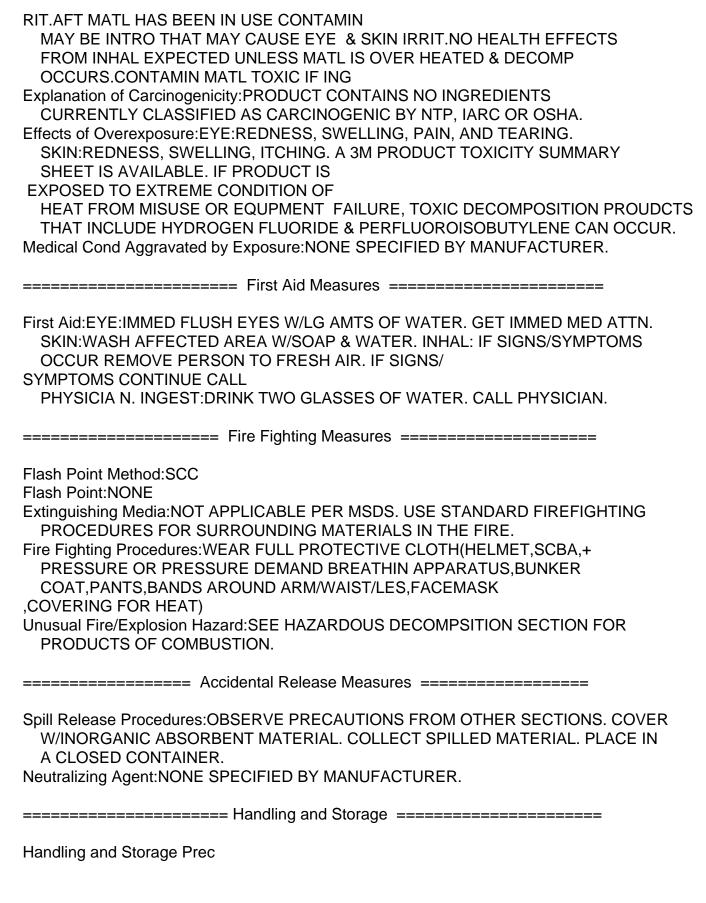
Other REC Limits: NONE RECOMMENDED

LD50 LC50 Mixture:ORAL LD50 (RAT) IS UNKNOWN.
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:NO ADVERSE HEALTH EFFECTS EXPECTED

FROM EYE & SKIN CONTACT, INHAL EXPOSURE & INGEST. MATL NOT EXPECTED

TO PRODUCE SIGNIFICANT EYE IR



autions:DO NOT STORE CONTAINERS ON THEIR SIDES. STORE AT ROOM TEMPERATURE. KEEP OUT OF THE REACH OF CHILDREN.

Other Precautions:NO SMOKING WHILE HANDLING THIS MATERIAL. AVOID PROLONGED BREATHING OF VAPORS. AVOID BREATHING OF THERMAL DECOMPOSITION PRODUCTS.

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

Respiratory Protection:IF THERMAL DECOMPOSITION OCCURS, SELECT ONE OF FOLLOWING NIOSH APPROVED RESP BASED ON AIRBORNE CONCENTRATION OF CONTAMINANTS &

IAW OSHA REGS:HALF-MASK SUPPLIED AIR RESPIRATOR, FULL-FACE SUPPLIED AIR R ESPIRATOR.

Ventilation:LOC EXHA VENTI.VENTI W/MIN CAPTURE VEL OF 50 LINEAR FT/MIN FOR WORK @ OR ABOVE BP,100 LINEAR FT/MIN FOR INTERFERING AIR.

Protective Gloves: NOT REQUIRED AT ROOM TEMPERATURE.

Eye Protection: SAFETY GLASSES W/SIDE SHIELDS.

Other Protective Equipment: NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices: AVOID EYE CONTACT. WASH HANDS AFTER HANDLING.

Supplemental Safety and Health

3M ID #:98-0211

-5594-4; 98-0204-0901-1; 98-0204-0904-5; 98-0211-3507-8; 98-0211-3972-4; 98-0211-3973-2; 98-0211-5502-7; 98-0204-0903-7.

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

HCC:N1

Boiling Pt:B.P. Text:311F,155C

Vapor Pres:3 @RT

Vapor Density:22.5 @RT

Spec Gravity:1.9

Viscosity:2.7SC @RT

Evaporation Rate & Deference: