

MILLER-STEPHENSON CHEMICAL CO -- MS-238 CONTACT RE-NU AND LUBE -- 6850-01-099-9842

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

Product ID:MS-238 CONTACT RE-NU AND LUBE

MSDS Date:01/01/1989

FSC:6850

NIIN:01-099-9842

MSDS Number: BRFSC

=== Responsible Party ===

Company Name:MILLER-STEPHENSON CHEMICAL CO

Address:GEORGE WASHINGTON HWY

City:DANBURY

State:CT

ZIP:06810

Country:US

Info Phone Num:203-743-4447

Emerg

ency Phone Num:203-797-2212;800-424-9300(CHEMTREC)

Preparer's Name:JANET STEPHENS

CAGE:18598

=== Contractor Identification ===

Company Name:MILLER-STEPHENSON CHEMICAL CO INC

Address:55 BACKUS AVE/GEORGE WASHINGTON HWY

Box:950

City:DANBURY

State:CT

ZIP:06810

Country:US

Phone:203-743-4447

CAGE:18598

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

Ingred Name:1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) (SARA
III)

CAS:76-13-1

RTECS #:KJ4000000

Fraction by Wt: 79%

OS

HA PEL:1000 PPM;1250 STEL
ACGIH TLV:1000 PPM;1250 STEL
Ozone Depleting Chemical:1

Ingred Name:DICHLORODIFLUOROMETHANE (SARA III)
CAS:75-71-8
RTECS #:PA8200000
Fraction by Wt: 20%
OSHA PEL:1000 PPM
ACGIH TLV:1000 PPM
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS
Ozone Depleting Chemical:1

Ingred Name:SYNTHETIC HYDROCARBON BASE OIL
CAS:68649-12-7
Fraction by Wt: 1%

Ingred Name:SUPP DATA:BECAUSE OF POSS INCR RISK OF ELICITING CARDIAC
DYSTRYTHMIAS, CATECHOLAMINE DRUGS, SUCH AS EPINEPHRINE, (ING
5)
RTECS #:9999999ZZ

Ingred Name:ING 4:SHOULD BE CONSIDERED ONLY AS LAST RESORT IN LIFE
THREATING EMERGENCIES.
RTECS #:9999999ZZ

Ingred Name:EFTS OF OVEREXP:IRREGULARITIES. CHLOROFLUOROCARBON (CFC)
MATL HAVE PRODUCED SENSIT OF MYOCARDIUM TO (ING 7)
RTECS #:9999999ZZ

Ingred Name:ING 6:EPINEPHRINE IN LAB ANIMALS & COULD HAVE SIMILAR EFT
IN HUMANDS. ADRENOMIMETICS (E.G., EPINEPHRINE) MAY BE (ING 8)
RTECS #:9999999ZZ

Ingred Name:ING 7:CONTRAINDICATED EXCEPT FOR LIFE-SUSTAINING USES I
N
HUMANS ACUTELY/CHRONICALLY EXPOSED TO CFC'S.
RTECS #:9999999ZZ

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

LD50 LC50 Mixture:LD50: (ORAL, RAT) 43,000 MG/M3
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:INHAL:VAP IS HVR/AIR & CAN CAUSE
SUFFICATION BY REDUCING OXYGEN AVAIL FOR BRTHG.BRTHG HIGH CONC OF
VAP MAY CAUSE LIGHT-HEADEDNESS, GIDDINESS, SHORTNESS OF BREATH

, &
MAY LEAD TO NARCOSIS, CARDIAC IRREGULARITIES,
UNCONSCIOUS/DEATH.SKIN:NOT CORR/IRRIT AFTER SINGLE CNTCT.HOWEVER,
RPTD LIQ CNTCT CAN CAUSE (EFTS OF OVEREXP)
Explanation of Carcinogenicity:NOT RELEVANT
Effects of Overexposure:HLTH HAZ:DEFAT OF SKIN RESULTING IN IRRIT.MATL
IS POORLY ABSORBED THRU SKIN.EYE:LIQ CNTCT CAN CAUSE DISCOMFORT,
USUALLY NO EXTENDED EFT.NOTE:IN SCREENING TESTS W/EXPERIMENTAL
ANIMALS, EXPOS AT APPROX 5,000 PPM (V/V) & ABOVE, FOLLOWED BY
LGINTR
AVENOUS EPINEPHRINE CHALLENGE, HAS INDUCED SERIOUS CARDIAC
(ING 6)
Medical Cond Aggravated by Exposure:CARDIOVASCULAR DISEASE

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

First Aid:INHAL:REMOVE TO FRESH AIR, CALL MD. IF NOT BRTHG, GIVE ARTF
RESP. PREFERABLY MOUTH-TO-MOUTH. IF BRTHG IS DFCLT, GIVE OXYGEN. DO
NOT GIVE EPINEPHRINE/SIMILAR DRUGS. EYE:IMMED FLUSH W/PLENTY OF
WATER FO R AT LEAST 15 MIN. CALL MD. SKIN:FLUSH W/WATER. GET MD
ATTN IF IRRIT IS
PRESENT. INGEST:NO SPECIFIC INTERVENTION IS
INDICATED AS COMPOUND IS NO LIKELY TO BE HAZ BY INGEST. HOWEVER,
CONSULT (SUPP DATA)

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

Flash Point Method:TOC
Flash Point:NONE
Lower Limits:NON-FLAMM
Upper Limits:NON-FLAMM
Extinguishing Media:NON-FLAMMABLE. USE EXTINGUISHING MEDIA SUITABLE FOR
SURROUNDING FIRE .
Fire Fighting Procedures:WEAR NIOSH/MSHA APPROVED PRESSURE DEMAND SCBA
AND FULL PROTECTIVE EQUIPMENT .
Unus
ual Fire/Explosion Hazard:PRESSURIZED AEROSOL CNTNRS AT ELEVATED
TEMPS MAY VENT, RUPTURE/BURST & ADD TO FLYING/FALLING DEBRIS.DECOMP
MAY OCCUR.THERMAL DECOMP PRODS MAY INCL (SUPP DATA)

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

Spill Release Procedures:VENTILATE AREA. REMOVE OPEN FLAMES OR RED HOT
SURFACES. ALLOW TO EVAPORATE.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling an

d Storage Precautions:DO NOT STORE NEAR SOURCES OF HEAT, IN
DIRECT SUNLIGHT/WHERE TEMPS EXCEED 120F. DO NOT PUNCTURE/DAMAGE
CNTNRS. ROTATE STOCK TO SHELF LIFE OF ONE YEAR.

Other Precautions:NO SMOKING IN AREA OF USE. DO NOT USE IN GENERAL
VICINITY OF ARC WELDING, OPEN FLAMES OR HOT SURFACES. HEAT AND/OR
UV RADIATION MAY CAUSE THE FORMATION OF FLUORIDES, CHLORIDES, AND
PHOSGENE .

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

Respiratory Protection:UNDER
NORMAL MFR CONDITIIONS NO RESPIRATORY
PROTECTION IS REQUIRED WHEN USING THIS PRODUCT. SELF-CONTAINED
BREATHING APPARATUS IS REQUIRED IF A LARGE SPILL OCCURS. DO NOT
SPRAY LIQUID ON SKIN.

Ventilation:NORM VENT FOR STANDARD MFR PROC IS GENERALLY ADEQ. LOC
EXHAUST SHOULD BE USED WHEN LG AMTS ARE RELEASED. MECH(SUPP DATA)

Protective Gloves:BUTYL GLOVES.

Eye Protection:CHEM WORK GOGG/FULL LENGTH FSHLD .

Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practice

s:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

EXPLO HAZ:FLUORIDES, CHLORIDES & PHOSGENE. HAZ DECOMP:ACIDS-POSS
CARBONYL HALIDES. NORM COMBUST MAY FORM CARBON DIOXIDE.
FLUORIDES/CHLORIDES/PHOSGENE . FIRST AID:MD IF NEC. DO NOT INDUCE V
OM AS HAZ OF ASPIRATING MATLS INTO LUNGS IS GREATER HAZ THAN
ALLOWING IT TO PROGRESS THRU INTESTINAL TRACT. NOTE:(ING 4)

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

Boiling Pt:B.P. Text:118F,48C

Vapor Pr

es:334 @ 77F

Vapor Density:2.9 @ 77F

pH:NEUT

Evaporation Rate & Reference:1 (N-BUAC=1)

Solubility in Water:NEGLIGIBLE

Appearance and Odor:CLEAR LIQUID. FAINT SOLVENT ODOR.

Percent Volatiles by Volume:100

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

ALKALI OR ALKALINE EARTH METALS POWDERED AL, ZN, BE, ETC.

Stability Condition to Avoid:AVOID SPRAYING NEAR OPEN FLAMES OR RED HOT
SURFACES. DO NOT HEAT AEROSOL CONTAINERS ABOV

E 49C/120F.

Hazardous Decomposition Products:CMPS CAN BE DECOMPOSED BY HIGH TEMPS
(OPEN FLAMES/GLOWING METAL SURF/ETC).FORMING HYDROCHLORIC &
HYDROFLUORIC (SUPP DATA)

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

Waste Disposal Methods:ALLOW TO EVAPORATE. DO NOT PUNCTURE OR
INCINERATE AEROSOL CANS. DISPOSAL SERVICE TO LANDFILL IS
APPROPRIATE. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND
FEDERAL REGULATIONS .

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