

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

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Product Identification  
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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

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Composition/Information on Ingredients  
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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 CORROSIVE/IRRITANT AFTER SINGLE CONTACT. HOWEVER,  
REPEATED LIQUID CONTACT CAN CAUSE (EFFECTS OF OVEREXPOSURE)

Explanation of Carcinogenicity: NOT RELEVANT

Effects of Overexposure: HEALTH HAZARD: DEFAT OF SKIN RESULTING IN IRRITATION. MATERIAL  
IS POORLY ABSORBED THROUGH SKIN. EYE: LIQUID CONTACT CAN CAUSE DISCOMFORT,  
USUALLY NO EXTENDED EFFECT. NOTE: IN SCREENING TESTS WITH EXPERIMENTAL  
ANIMALS, EXPOSURE AT APPROX 5,000 PPM (V/V) & ABOVE, FOLLOWED BY  
LUNG INTR

INTRAVENOUS EPINEPHRINE CHALLENGE, HAS INDUCED SERIOUS CARDIAC  
(INGESTION)

Medical Condition Aggravated by Exposure: CARDIOVASCULAR DISEASE

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First Aid Measures  
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First Aid: INHALATION: REMOVE TO FRESH AIR, CALL MD. IF NOT BREATHING, GIVE ARTIFICIAL  
RESPIRATION. PREFERABLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN. DO  
NOT GIVE EPINEPHRINE/SIMILAR DRUGS. EYE: IMMEDIATELY FLUSH WITH PLENTY OF  
WATER FOR AT LEAST 15 MIN. CALL MD. SKIN: FLUSH WITH WATER. GET MD  
ATTENTION IF IRRITATION IS

PRESENT. INGESTION: NO SPECIFIC INTERVENTION IS  
INDICATED AS COMPOUND IS NOT LIKELY TO BE HAZARDOUS BY INGESTION. HOWEVER,  
CONSULT (SUPPLEMENTARY DATA)

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Fire Fighting Measures  
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Flash Point Method: TOC

Flash Point: NONE

Lower Limits: NON-FLAMMABLE

Upper Limits: NON-FLAMMABLE

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.

Unusual

Fire/Explosion Hazard: PRESSURIZED AEROSOL CONTAINERS AT ELEVATED  
TEMPERATURES MAY VENT, RUPTURE/BURST & ADD TO FLYING/FALLING DEBRIS. DECOMPRESSION  
MAY OCCUR. THERMAL DECOMPOSITION PRODUCTS MAY INCLUDE (SUPPLEMENTARY DATA)

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Accidental Release Measures  
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Spill Release Procedures: VENTILATE AREA. REMOVE OPEN FLAMES OR RED HOT  
SURFACES. ALLOW TO EVAPORATE.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

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Handling and Storage  
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Handling and

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 VOM 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 ABOVE

E 49C/120F.

Hazardous Decomposition Products: CMPD CAN BE DECOMPOSED BY HIGH TEMPS (OPEN FLAMES/GLOWING METAL SURF/ETC). FORMING HYDROCHLORIC & HYDROFLURIC (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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