



Chemical Name: Contact Re-Nu & Lube

Manufacturer: Miller-Stephenson

Container Size: 12oz.

Location: VLA

Disposal: Place empty container in trash. Give partial or full container to safety officer.

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
Emergency 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%
OSHA 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 DYSTHYTHMIAS, 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 IN HUMANS ACUTELY/CHRONICALLY EXPOSED TO CFC'S.
RTECS #:9999999ZZ

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Hazards Identification
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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
 LGINTRAVENOUS EPINEPHRINE CHALLENGE, HAS INDUCED SERIOUS CARDIAC
 (ING 6)

Medical Cond Aggravated by Exposure:CARDIOVASCULAR DISEASE

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 First Aid Measures
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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)

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 Fire Fighting Measures
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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 .
 Unusual 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)

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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 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 .

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 Exposure Controls/Personal Protection
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Respiratory Protection:UNDER NORMAL MFR CONDITIONS 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 Practices: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)

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 Physical/Chemical Properties
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Boiling Pt:B.P. Text:118F,48C
 Vapor Pres: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 49C/120F.
Hazardous Decomposition Products:COMPD 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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