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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 #:9999992Z

Ingred Name:ING 7:CONTRAINDICATED EXCEPT FOR LIFE-SUSTAINING USES IN

HUMANS ACUTELY/CHRONICALLY EXPOSED TO CFC'S.

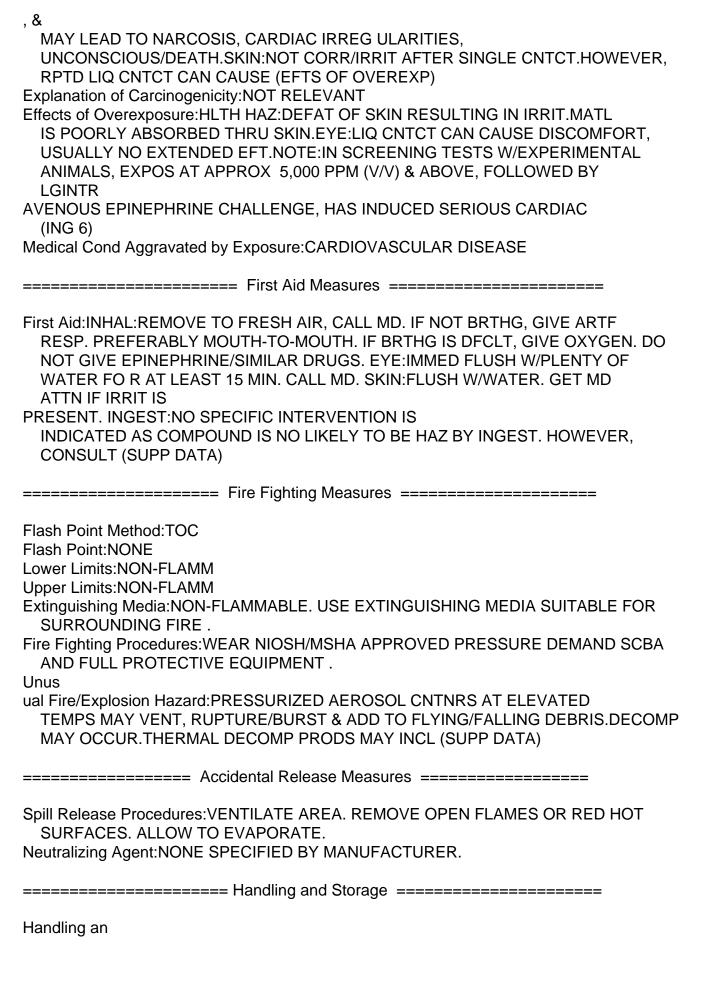
RTECS #:9999999ZZ

========== 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



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: 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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