

MILLER-STEPHENSON CHEMICAL CO INC. -- MS 990/CO2 SAFEZONE SOLVENT FLUX REMOVER --
6850-00-419-5004

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

Product ID:MS 990/CO2 SAFEZONE SOLVENT FLUX REMOVER

MSDS Date:01/01/1996

FSC:6850

NIIN:00-419-5004

MSDS Number: BVHDG

=== Responsible Party ===

Company Name:MILLER-STEPHENSON CHEMICAL CO INC.

Address:GEORGE WASHINGTON HIGHWAY

Box:950

City:DANBURY

State:CT

ZIP:06810

Country:US

Info Phone Num:203-743-4447

Emergency Phone Num:203-7

97-2212 OR 800-424-9300

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-DICHLORO-1-FLUOROETHANE (SARA 313)

CAS:1717-00-6

RTECS #:KI0997000

Fraction by Wt: 96.0%

Other REC Limits:NONE RECOMMENDED

Ozone Depleting Ch

emical:2

Ingred Name:METHYL ALCOHOL (METHANOL) (SARA 313) (CERCLA)

CAS:67-56-1

RTECS #:PC1400000

Fraction by Wt: 3.6%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:S, 200 PPM

ACGIH TLV:S,200PPM/250STEL; 96

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:NITROMETHANE

CAS:75-52-5

RTECS #:PA9800000

Fraction by Wt: 0.1%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:100 PPM

ACGIH TLV:20 PPM; 9596

Ingred Name:CARBON DIOXIDE

CAS:124-38-9

RTECS #:FF6400000

Fraction by Wt: 3.0%

Other REC Limits:NONE R

ECOMMENDED

OSHA PEL:5000 PPM

ACGIH TLV:5000PPM/30000STEL;96

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:INHAL:@LOW CONCEN LEVEL INITIAL

SYMPT:HEADACHE,DIZZ,NAU,LOSS OF CONCEN,IRRIT.W/HIGH EXPO

LEVES:INTOXICATION,CARDIAC ARRHYTHMIA.PROD VAP DISPLACE AIR & CAN
CAUSE ASP

HYXIATION ESPECIALLY IN CONFINED SPA CES.SKIN:DEFATTING

CAN CAUSE IRRIT.NO ABSORPTION TOXICITY DATA AVAILABLE.EYE:IRRIT.LIQ
WILL IRRIT EYE,CAUSE (SUPPLEMENT)

Explanation of Carcinogenicity:PER MSDS:NONE OF COMPONENTS IN PRODUCT
ARE LISTED AS CARCINOGEN BY IARC/NTP/OSHA.

Effects of Overexposure:HEADACHE, DIZZINESS, NAUSEA, LOSS OF
CONCENTRATION, IRRIT, INTOXICATION, CARDIAC ARRHYTHMIA,
ASPHYXIATION. DEFATTING OF SKIN, IRRIT. EYE IRRIT, CONJUCTIVITIS.
DISCOMFORT, EYE DMG, B

LINDNESS.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:INHAL:REMOVE TO FRESH AIR.BREATH STOP GIVE MOUTH-TO-MOUTH RESUSC.GIVE OXY AS NECESSARY IF QUAL OPERATOR AVAILABLE.DO NOT GIVE ADRENALIN(EPINEPHRINE).GET MED ATTN IMMED. EYE:FLUSH W/LG AMTS OF WATER FO R @LEAST 15MINS;LIFT EYELIDS.GET MED ATTN. SKIN:WASH PROMPTLY W/SOAP/WATER FOR @LEAST 15MINS WHILE REMOVING CONTMAIN CLO TH/SHOES.GET MED ATTN IMMED. ORAL:CONSC,INDUCE VOMIT IMMED BY GIVING 2-4(SUPPLE)

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

Flash Point:NONE

Autoignition Temp:Autoignition Temp Text:N/D

Lower Limits:7.5

Upper Limits:19.2

Extinguishing Media:CARBON DIOXIDE, DRY CHEMICAL, OR WATER SPRAY.

Fire Fighting Procedures:WEAR NIOSH APPROV PRESS DEMAND SELF-CONTAIN BREATH APPARATUS(SCBA)FOR POSSIBLE EXPO TO HYDROCHLORIC/HYDROFLUORIC ACIDS/PHOSGENE.USE H2OSPRAY TO KEEP CNTNR COOL.

Unusual Fire/Explosion Hazard:PRESSURIZED AEROSOL CNTNR @ELEVATED TEMP MAY VENT/RUPTURE/BURST/ADD TO FLYING/FALLING DEBRIS.DECOMPO PROD INCLUDE HCL/HFL ACIDS/CARBONY HALIDES SUCH AS PHOSGENE

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

Spill Release Procedures:EVACUATE/VENTILATE AREA.REMOVE POSSIBLE IGN SOURCES.ONLY PERSONNEL EQ

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====
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Handling and Storage Precautions:DO NOT STORE NEAR SOURCES OG HEAT, DIRECT SUNLIGHT OR WHERE TEMPERATURES EXCEED 120F/49C. ROTATE STOCK TO SHELF LIFE OF ONE YEAR.

Other Precautions:DO NOT USE IN POORLY VENTIALTED OR CONFINED SPACES. AVOID PROLONGED OR REPEATED BREATHING OF VAPORS. USE ONLY WITH ADEQUATE VENTILATION.

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

Respiratory Protection:NONE REQUIRED FOR ADEQUATELY VENTED WORK SITUATIONS. FOR ACCIDE

NTAL OR NON-VENTILATED SITUATIONS, USE A
SELF- CONTAINED BREATHING APPARATUS OR SUPPLIED-AIR RESPIRATOR,
APPROVED BY NIOSH/MSHA. USE IAW 29 CFR 1910.134.
Ventilation:PROVIDE LOCAL EXHAUST AT FILLING ZONES AND OTHER OPERATING
SPACES WHERE LEAKAGE IS PROBABLE. MECHANICAL FOR OTHER.
Protective Gloves:BUTYL RUBBER, PVA OR NEOPRENE
Eye Protection:CHEMICAL SPLASH GOGGLES
Other Protective Equipment:USE IMPERVIOUS CLOTHING IF THERE IS REPEATED
OR PROLONGED CONTACT WITH LIQUID.
Work Hygi
enic Practices:WASH HANDS AFTER USE AND BEFORE EATING,
DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHES BEFORE REUSE.
Supplemental Safety and Health
BOTH PNI A & PNI B THIS NSN/CAGE ARE ACCEPTABLE PRODUCTS FOR THIS NSN
PER DLSC-TIR.

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

HCC:V2
Boiling Pt:=29.4C, 84.9F
Melt/Freeze Pt:M.P/F.P Text:NP
Decomp Temp:Decomp Text:NP
Vapor Pres:10.8 PSIG
Vapor Density:4.0
Spec Gravity:1.21
pH:NEUTRA
Viscosity:NP
Evaporation Rate
& Reference:>1 (CCL4=1)
Solubility in Water:BELIEVED SLIGHT
Appearance and Odor:LIQUID, CLEAR-COLORLESS, ETHEREAL ODOR.
Percent Volatiles by Volume:100
Corrosion Rate:NP

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

Stability Indicator/Materials to Avoid:YES
STRONG ACIDS & ALKALIS, REACTIVE METALS(E.G.POWDEREE
AL,NA,K,CA,MG,ZN,MOLTEN AL,BA,LI SHAVINGS),STRONG OXIDIZING AGENTS.
Stability Condition to Avoid:AVOID SPARKS, HOT SPOTS, FLAMES.
Hazardous Decomposition

Products:HDYROCHLORIC & HYDROFLUORIC ACIDS, &
CARBONYL HALIDES SUCH AS PHOSHGENE.

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

Waste Disposal Methods:COMPLY WITH FEDERAL, STATE AND LOCAL
REGULATIONS. REMOVE TO A PERMITTED WASTE DISPOSAL FACILITY. DO NOT
PUNCTURE OR INCINERATE CANS.

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