## MILLER-STEPHENSON CHEMICAL CO INC -- MS-195/CO2 SOLVENT FLUX REMOVER -- 6810-00N016733

========= Product Identification ============ Product ID:MS-195/CO2 SOLVENT FLUX REMOVER MSDS Date: 03/01/1989 FSC:6810 NIIN:00N016733 MSDS Number: BLBTN === Responsible Party === Company Name: MILLER-STEPHENSON CHEMICAL CO INC Address: GEORGE WASHINGTON HWY City: DANBURY State:CT ZIP:06810 Country: US Info Phone Num: 203-797-2212 Emergency Phone Num: 203-797-2212,800-424-9300 (CHEMTREC) 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:METHYL CHLOROFORM (1,1,1-TRICHLOROEHANE) (SARA III) CAS:71-55-6 RTECS #:KJ2975000 Fraction by Wt: 92% OSHA PEL:350 PPM/450 STEL ACGIH TLV: 350 PPM/450STEL; 9192 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS Ozone Depleting Chemical:1 Ingred Name:ISOPROPYL ALCOHOL (SARA III) CAS: 67-63-0 RTECS #:NT8050000 Fraction by Wt: 5% OSHA PEL:400 PPM/500 STEL ACGIH TLV:400 PPM/500STEL;9192 Ingred Name: CARBON DIOXIDE CAS:124-38-9 RTECS #:FF6400000 Fraction by Wt: 3% OSHA PEL:5000 PPM ACGIH TLV:5000PPM/30000STEL;93 Ingred Name: EFTS OF OVEREXP: CHLOROCARBON MATL HAVE PROD SENSIT OF

1 of 3 7/10/09 10:16 AM

MYOCARDIUM TO EPINEPHRINE IN LAB ANIMALS & COULD HAVE (SEE ING 5)

RTECS #:9999992Z

Ingred Name:INGRED 4:SIMILAR EFT IN HUMANS. ADRENOMIMETICS (I.E.
 EPINEPHRINE) MAY BE CONTRA-INDICATED EXCEPT FOR LIFE-(SEE ING 6)
RTECS #:9999999ZZ

Ingred Name:INGRED 5:SUSTAINING USES IN HUMANS ACUTELY/CHRONICALLY EXPOS TO CHLOROCARBONS .

RTECS #:9999992Z

Ingred Name:OTHER PREC:FLAMES, OR HOT SURF. HEAT AND/OR UV RADIA MAY
 CAUSE THE FORMATION OF HCL AND/OR PHOSGENE .
RTECS #:9999999ZZ

======= 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:EXCESSIVE INHAL OF CONC VAP CAN CAUSE DIZZ, HDCH, NARCOS, ANESTH, SUFFOCATION, CIRCULATORY SYS DEPRESS, POSS CNS DMG & EVEN DEATH IN CONFINED/POORLY VENTED AREAS. FATALITIES FOLLOWING SEV ACUTE EXPOS TO VARIOUS CHLORINATED SOLV HAVE BEEN ATTRIBUTED TO VENTICULAR FIBRATION. SKIN:PRLNG/RPTD (SEE EFTS OF OVEREXP)

Explanation of Carcinogenicity: NOT RELEVANT.

Effects of Overexposure:HLTH HAZ:CNTCT W/LIQ ON SKIN CAN CAUSE IRRIT & DERM. EYE:CNTCT WILL CAUSE EXTREME IRRIT, SOLV CNTNS ISOPROPYL ALCOHOL. INGEST:MAY RESULT IN IRRIT OF MOUTH & GI TRACT W/OTHER EFTS LISTED ABOVE FOR INHA L. VOMIT & SUBSEQUENT ASPIR INTO LUNGS MAY LEAD TO CHEM PNEUM & PULM EDEMA WHICH IS A POTNTLY FATAL CONDTN. (SEE ING 4)

Medical Cond Aggravated by Exposure: CARDIVASCULAR DISEASE. SEE HEALTH HAZARDS-INHALATION SECTION.

First Aid:INHAL:REMOVE TO FRESH AIR, CALL MD. IF NOT BRTHG, GIVE ARTF RESP, PREF MOUTH TO MOUTH. IF BRTHG DFCLT, GIVE O\*2. DO NOT GIVE EPINEPHRINE/SIMILAR DRUGS AS SUCH DRUGS MAY INDUCE VENTRICULAR ARRYTHMIA. E YE:IMMED FLUSH W/PLENTY OF H\*20 FOR @ LST 15 MIN. CALL MD. SKIN:FLUSH W/H\*20 FOR @ LST 15 MIN, WHILE REMOVING CONTMD CLTHG/SHOES. IF IRRIT OCCURS, CALL MD. INGEST:IF CONSCIOUS, DRINK LG (SUPP DATA)

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

Flash Point Method: TOC

Flash Point:NONE(SUPP DATA)

Lower Limits:N/D

Upper Limits:N/D

Extinguishing Media: DRY CHEMICALS & CARBON DIOXIDE.

Fire Fighting Procedures: ADDN OF EXCESS H\*20 WILL EXTRACT ISOPROPYL ALCOHOL & MAY FORM FLAMM, SUPERNATANT LAYER. WEAR NIOSH/MSHA APPRVD PRESS DEMAND, SCBA AND FULL PROT (SEE SUPP DATA)

Unusual Fire/Explosion Hazard:PRESSURIZED AEROSOL CNTNRS @ ELEVATED TEMPS MAY VENT, RUPTURE/BURST & ADD TO FLYING & FALLING DEBRIS. INTENSE HEAT MAY CAUSE DECOMP W/EMISSION OF (SUPP DATA)

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

Spill Release Procedures: EVACUATE & VENT AREA. REMOVE POSS IGNIT SOURCES. ONLY PERS EQUIPPED W/PROPER RESP & SKIN/EYE PROT SHOULD BE PERMITTED IN THIS AREA. DIKE SPILL, COLLECT ON ABSORB MATL & TRANSFER TO STEEL DRUMS FOR REC OVERY/DISP. SM SPILL: ALLOW TO EVAP. Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

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

- Handling and Storage Precautions:DO NOT STORE NEAR SOURCES OF HEAT, DIRECT SUNLIGHT/WHERE TEMPS EXCEED 49C/120F. ROTATE STOCK TO A SHELF LIFE OF ONE YEAR. NO SMOKING IN AREA OF USE.
- Other Precautions: AVOID BRTHING VAPS & PRLNG SKIN EXPOS. USE ONLY IN WELL VENTED AREA. VAPS ARE >AIR & WILL COLLECT IN LOW AREAS. LIQ O\*2/STRONG OXIDENTS MAY FORM EXPLO MIXT W/1,1,1 TRICHLOROETHANE. DO NOT USE IN GEN V ICIN OF ARC WELDING, OPEN (SEE INGRED 7)
- ===== Exposure Controls/Personal Protection ========
- Respiratory Protection:NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN .
- Ventilation:LOC EXHAUST WHEN LRG AMTS ARE RELEASED. MECH VENT IN LOW PLACES. NORM VENT FOR STD MANUFACTURING PROC, TO KEEP

3 of 3 7/10/09 10:16 AM