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MILLER-STEPHENSON CHEMICAL CO INC. -- MS-190HD HEAVY DUTY FLUX REMOVER - 6850-00-602-2347

Product ID:MS-190HD HEAVY DUTY FLUX REMOVER MSDS Date:01/01/1989 FSC:6850 NIIN:00-602-2347 **MSDS Number: BFHRH** === Responsible Party === Company Name: MILLER-STEPHENSON CHEMICAL CO INC. Address: GEORGE WASHINGTON HIGHWAY Box:950 City:DANBURY State:CT ZIP:06810 Country:US In fo Phone Num:203-743-4447 Emergency Phone Num:203-797-2212 OR 203-743-4447 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

Ingred Name:METHYLENE CHLORIDE (SARA III) CAS:75-09-2 RTECS #:PA8050000 Fraction by Wt: 44.0% OSHA PEL:500

PPM/C,1000; Z2 ACGIH TLV:50 PPM, A2; 9192 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS Ingred Name:1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) (SARA III) CAS:76-13-1 RTECS #:KJ4000000 Fraction by Wt: 36.0% OSHA PEL:1000PPM/1250STEL ACGIH TLV:1000PPM/1250STEL9192 **Ozone Depleting Chemical:1** Ingred Name: DICHLORODIFLUOROMETHANE (SARA III) CAS:75-71-8 RTECS #:PA8200000 Fraction by Wt: 20.0% OSHA PEL:1000 PPM ACGIH TLV:1000 PPM; 9192 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS **Ozone Depletin** g Chemical:1 LD50 LC50 Mixture:LD50 ORAL RAT- 5000 MG/KG(METH. CHLOR) Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:YES IARC:NO OSHA:NO Health Hazards Acute and Chronic:ACUTE:IRRITATION OF EYES,SKIN AND **RESPIRATORY TRACT: CAUSES** SUFFOCATION, HEADACHE, GIDDINESS, NARCOSIS, CARDIAC IRREGULARITIES; METHYLENE CHLORIDE IS METABOLIZED TO CO, RAISING THE/CARBOXY HEMOGLOBIN=CARBO NM ONOXIDE: DRYING OF SKIN, DERMATITIS; SYSTEMIC EFFECTS. Explanation of Carcinogenicity:NTP LISTS METHYLENE CHLORIDE AS A KNOWN CARCINOGEN. THIS IS ONE COMPONENT OF THE MIXTURE. Effects of Overexposure:SUFFOCATION,LI-HEAD,GIDD,SHORTNESS/BREATH,NAR,CARD IRREG, UNCONSCIOUSNESS OR DEATH. CO POISONING. Medical Cond Aggravated by Exposure: PRE-EXISTING CONDITIONS MAY BE WORSEN.

First Aid:INHAL:RMV TO FRESH AIR. IF

NOT BRTHNG GIVE CPR; IF BRTHNG DIFF GIVE OXYGEN. EYE:IMMED FLUSH W/PLENTY OF WATER. SKIN:WASH W/SOAP & WATER. RMV CONTAM CLTHG & SHOES. INGEST:DO NOT INDUCE VOMIT. NOTHG BY MOUTH IF UNCONSC. GET MEDICAL ATTN.

Flash Point:NONE (TOC) Lower Limits:NONFLAMMABLE Upper Limits:NONFLAMMABLE Extinguishing Media:USE MEDIA SUITABLE FOR SURROUNDING FIRE Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE. Unusual Fire/Explosion Hazard:MAY VENT,RUPTURE,BURST AT ELEVATED TEMPERATURES. HIGH HEAT CAUSES DECOMPOSITION-EMISSION OF HALOGENS

Spill Release Procedures: VENTILATE AREA. REMOVE OPEN FLAMES OR RED HOT SURFACES. ALLOW TO EVAPORATE. Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Handling and Storage Precautions:DO NOT STORE NEAR SOURCES OF HEAT,IN DIRECT SUNLIGHT OR WHERE TEMPERATURE EXCEEDS 120F.
Other Precautions:DO NOT SPRAY LIQUID ON SKIN. DO NOT PUNCTURE OR DAMAGE CONTAINERS. ROTATE STOCK TO SHELF LIFE OF ONE YEAR.

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

Respiratory Protection:NONE NORMALLY REQUIRED. SCBA FOR LG AMTS. Ventilation:LOCAL EXHAUST TO MAINTN BELOW TLV. Protective Gloves:RUBBER Eye Protection:SAFETY GLASSES OR GOGGLES Other Protective Equipment:NORMAL WORK CLOTHING COVERING ARMS & LEGS. Work Hygienic Practices:USE NORMAL CHEMICAL HYGIENE PRACTICE. DO NOT USE IN ENCLOSED AREA; ASPHYRIATION HAZARD

Supplemental Safety and Health

HCC:V2 Boiling Pt:B.P. Text:97.7F,36.5C Vapor Pres:500 Vapor Density:2.7 Spec Gravity:1.42 pH:7.0 Evaporation Rate & amp; Reference:1 (ETHER=1) Solubility in W ater:NEGLIGIBLE Appearance and Odor:CLEAR, COLORLESS LIQUID WITH SOLVENT ODOR Percent Volatiles by Volume:100

Stability Indicator/Materials to Avoid:YES ALKALI OR ALKALINE EARTH METALS-POWDERED AL,ZN,BE, ETC. Stability Condition to Avoid:SPRAYING NEAR OPEN FLAMES OR RED HOT SURFACES.

Hazardous Decomposition Products:HYDROCHLORIC/HYDROFLUORIC ACIDS, POSSIBLE CARBONYL HALIDES.

====== Disposal Consideratio

Waste Disposal Methods: ALLOW TO EVAPORATE. DO NOT PUNCTURE OR INCINERATE AEROSOL CANS. DISPOSAL SERVICE TO LANDFILL IS APPROPRIATE.

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