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

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

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

Info

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

======= Composition/Information on Ingredients ========

Ingred Name: METHYLENE CHLORIDE (SARA III)

CAS:75-09-2

RTECS #:PA8050000 Fraction by Wt: 44.0% OSHA PEL:500 PP M/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 Qtv:5000 LBS Ozone Depleting C

hemical: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=CARBONM

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 ======== Accidental Release Measures =========== Spill Release Procedures: VENTILATE AREA. REMOVE OPEN FLAMES OR RED HOT SURFACES. ALLOW TO EVAPORATE. Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER. \_\_\_\_\_ === Handling and Storage =========== 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 Glo ves: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 ========= Physical/Chemical Properties =========== 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 & Evaporation R

Solubility in Wate

## r:NEGLIGIBLE Appearance and Odor:CLEAR, COLORLESS LIQUID WITH 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:SPRAYING NEAR OPEN FLAMES OR RED HOT SURFACES.

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

=======================================	<b>Disposal Considerations</b>
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Waste Disposal Methods:ALLOW TO EVAPORATE. DO NOT PUNCTURE OR INCINERATE AEROSOL CANS. DISPOSAL SERVICE TO LANDFILL IS APPROPRIATE.

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