

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 Qty:5000 LBS
Ozone Depleting Chemical:1

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

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.

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

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.

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

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

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

Spill Release Procedures:VENTILATE AREA. REMOVE OPEN FLAMES OR RED HOT SURFACES. ALLOW TO EVAPORATE.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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==== 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.

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===== 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

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===== 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 & Reference:1 (ETHER=1)

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.

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

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

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