



Chemical Name: Freon T-P35 Solvent

Manufacturer: Miller-Stephenson

Container Sizes: 16 oz.

Location: VLA

Disposal: Place empty container in trash. Give partial or full container to safety officer.

MILLER-STEPHENSON CHEMICAL CO INC -- MS-160 FREON T-P 35 SOLVENT -- 6850-00-405-9386

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

Product ID:MS-160 FREON T-P 35 SOLVENT
MSDS Date:01/01/1990
FSC:6850
NIIN:00-405-9386
MSDS Number: BDXWH
=== Responsible Party ===
Company Name:MILLER-STEPHENSON CHEMICAL CO INC
Address:GOERGE WASHINGTON HIGHWAY
Box:950
City:DANBURY
State:CT
ZIP:06810
Country:US
Info Phone Num:203-743-4447
Emergency Phone Num:203-797-2212
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

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

Ingred Name:1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) (SARA III)
CAS:76-13-1
RTECS #:KJ4000000
Fraction by Wt: 52.0%
Other REC Limits:NONE SPECIFIED
OSHA PEL:1000PPM/1250STEL
ACGIH TLV:1000PPM/1250STEL9293
Ozone Depleting Chemical:1

Ingred Name:DICHLORODIFLUOROMETHANE (SARA III)
CAS:75-71-8
RTECS #:PA8200000
Fraction by Wt: 20.0%
Other REC Limits:NONE SPECIFIED
OSHA PEL:1000 PPM
ACGIH TLV:1000 PPM; 9293
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS
Ozone Depleting Chemical:1

Ingred Name:ISOPROPYL ALCOHOL (SARA III)

CAS:67-63-0
RTECS #:NT8050000
Fraction by Wt: 28.0%
Other REC Limits:NONE SPECIFIED
OSHA PEL:400 PPM/500 STEL
ACGIH TLV:400 PPM/500STEL;9293

Ingred Name:NITROMETHANE
CAS:75-52-5
RTECS #:PA9800000
Fraction by Wt: 0.3%
Other REC Limits:NONE SPECIFIED
OSHA PEL:100 PPM
ACGIH TLV:100 PPM; 9293

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

LD50 LC50 Mixture:LD 50 RATS 52000 PPM/4HRS (FREON 113)
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:INHALATION- ASPHYXIATION, CNS EFFECTS.
EYES- LIQUID MAY CAUSE IRRITATION. INGESTION- LOW TOXICITY.
CHRONIC: PROLONGED OR REPEATED EXPOSURE MAY CAUSE SKIN DEFATTING OR
IRRITATION.
Explanation of Carcinogenicity:NO INGREDIENTS OF A CONCENTRATION OF
0.1% OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN.
Effects of Overexposure:INHALED: LIGHTHEADEDNESS, GIDDINESS, SHORTNESS
OF BREATH, NARCOSIS, CARDIAC IRREGULARITIES, UNCONSCIOUSNESS. EYES:
REDNESS, PAIN, BLURRED VISION, DISCOMFORT. INGESTED: NONE GIVEN.
SKIN: REDNESS, DISCOMFORT.
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:INHALATION: MOVE PATIENT TO FRESH AIR. IF NECESSARY, GIVE
ARTIFICIAL RESPIRATION OR OXYGEN. DO NOT GIVE EPINEPHRINE OR
SIMILAR DRUGS. CONTACT WITH EYES: FLUSH WITH WATER. SKIN: FLUSH
WITH WATER. GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. INGESTED:
DO NOT INDUCE VOMITING! CALL DOCTOR FOR ADVICE.

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

Flash Point Method:TOC
Flash Point:NONE
Lower Limits:2.5
Upper Limits:5.2
Extinguishing Media:MEDIA APPROPRIATE FOR SURROUNDING FIRE. ADDITION OF
EXCESS WATER WILL EXTRACT ISOPROPNOL, FORMS FLAMMABLE LAYER.
Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND
FULL PROTECTIVE CLOTHING. COOL FIRE EXPOSED CONTAINERS WITH WATER
FOG.
Unusual Fire/Explosion Hazard:CONTAINERS MAY VENT, RUPTURE, OR BURST AT
ELEVATED TEMPERATURES. HIGH HEAT CAUSES EMISSION OF HALOGENS.

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

Spill Release Procedures:VENTILATE AREA. WIPE UP SPILL OR ALLOW TO

EVAPORATE.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL-VENTIATED PLACE UNDER 120F; AWAY FROM INCOMPATIBLE MATERIALS. PROTECT FROM PHYSICAL DAMAGE.

Other Precautions:DO NOT PUNCTURE OR DAMAGE CONTAINERS. ROTATE STOCK TO SHELF LIFE OF 1 YEAR.

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

Respiratory Protection:IF ENGINEERING CONTROLS FAIL OR NON-ROUTINE USE OR EMERGENCY OCCURS; USE NIOSH/MSHA APPROVED RESPIRATOR OR SUPPLIED AIR RESPIRATOR OR SCBA, AS REQUIRED. USE IN ACCORDANCE WITH 29 CFR 1910.134.

Ventilation:USE ADEQUATE MECHANICAL VENTILATION TO MAINTAIN EXPOSURE BELOW TLV.

Protective Gloves:BUTYL TO PREVENT PROLONGED CONTACT

Eye Protection:SAFETY GOGGLES

Other Protective Equipment:FULL WORK CLOTHING TO PREVENT REPEATED OR PROLONGED CONTACT.

Work Hygienic Practices:WASH HANDS AFTER USE AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDRER CONTAMINATED CLOTHES BEFORE REUSE.

Supplemental Safety and Health

AFTER >50% EVAPORATION,THE LOWER AND UPPER EXPLOSIVE LIMITS ARE 2.5 AND 5.2 RESPECTIVELY.PHONE # FOR GENERAL INFORMATION (203)743-4447.

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

HCC:V2

Boiling Pt:B.P. Text:>120F,>49C

Vapor Pres:284 MM HG

Vapor Density:2.2(AIR=1)

Spec Gravity:1.15 (WATER=1)

Evaporation Rate & Reference:3.7 (CCL4 =1)

Solubility in Water:APPRECIABLE

Appearance and Odor:CLEAR, COLORLESS LIQUID; FAINT SOLVENT ODOR

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

FINELY DIVIDED REACTIVE METALS, ALKALI, ALKALI EARTH METALS.

Stability Condition to Avoid:AVOID SPRAYING NEAR OPEN FLAMES OR HOT COILS;DO NOT HEAT >120F. CONTACT WITH ALKALI OR ALKALI EARTH METALS.

Hazardous Decomposition Products:HALOGEN ACIDS,PHOSGENE IN SMALLER AMOUNTS.

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

Waste Disposal Methods:DO NOT PUNCTURE OR INCINERATE AEROSOL CANS.DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

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