

MILLER-STEPHENSON CHEMICAL CO INC. -- MS-180/CO2 TF SOLVENT -- 6850-00-105-3084

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Product Identification
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Product ID:MS-180/CO2 TF SOLVENT

MSDS Date:01/01/1993

FSC:6850

NIIN:00-105-3084

MSDS Number: CCHQK

=== 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:203-743-444

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Emergency Phone Num:203-797-2212 OR 800-424-9300

Preparer's Name:JOANNA SAFFO

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
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Ingred Name:1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) (SARA
313)

CAS:76-13-1

RTECS #:KJ4000000

Fraction by Wt: 96.3%

Oth

er REC Limits:NONE RECOMMENDED
OSHA PEL:1000 PPM
ACGIH TLV:1000PPM/1250STEL; 96
Ozone Depleting Chemical:1

Ingred Name:CARBON DIOXIDE
CAS:124-38-9
RTECS #:FF6400000
Fraction by Wt: 3.7%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:5000 PPM
ACGIH TLV:5000PPM/30000STEL;96

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

LD50 LC50 Mixture:ORAL LD50 RATS 43000MG/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health

Hazards Acute and Chronic:INHAL:VAP HEAVIER THAN AIR,CAN CAUSE
SUFFOCATION BY REDUCING OXY AVAILABLE FOR BREATH.BREATH HI VAP
CONCEN MAY CAUSE LIGHT-HEAD,GIDDINESS,SHORT OF BREATH,MAY LEAD TO
NARCOSIS,CARDIOVASCULAR IRREG,UNCO NSC,DEATH.NOTE:IN SCREENING
TESTS W/EXPERIMENTAL ANIMALS EXPO @APPROX 5000PPM(V/V)/> FOLLOWED
BY LG EPINEPHRINE(SUPPLEM)

Explanation of Carcinogenicity:PER MSDS:FREON TF NOT LISTED AS
CARCINOGEN BY IARC/NTP/OSHA.

Effects of Overexposure:SUFFOCATION
, LIGHTHEADEDNESS, GIDDINESS,
SHORTNESS OF BREATH, NARCOSIS, CARDIOVASCULAR IRREG, UNCONSC,
DEATH. DEFATTING OF SKIN, IRRIT. EYE DISCOMFORT.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:INHAL:REMOVE TO FRESH AIR.CALL DR.NOT BREATH GIVE ART RESP
PREFER MOUTH-TO-MOUTH.DIFFI BREATH GIVE OXY.DO NOT GIVE
EPINEPHRINE/SIMILAR DRUGS.EYE:IMMED FLUSH W/PLENTY OF WATER FOR
@LEAST 15MI

NS.CALL DR .SKIN:FLUSH W/WATER.IRRIT PERSIST GET MED
ATTN.ORAL:NO SPEC INTERVENTION INDICATED-NOT LIKELY TO BE HAZ BY
INGEST.HOWEVER CONSULT DR IF NECESSARY.DO NOT INDUCE-ASPIRATION
HAZ.DR:CATECHOLAMINE (SUPPLE)

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

Flash Point Method:TOC
Flash Point:NONE
Autoignition Temp:Autoignition Temp Text:ND
Lower Limits:NON-FLAMM
Upper Limits:NON-FLAMM
Extinguishing Media:NON-FLAMMABLE. HMIS:USE APPROPRIATE FIRE
EXTINGUISH

ING MEDIA FOR SURROUNDING FIRE/MATLS.

Fire Fighting Procedures:SELF-CONTAINED BREATHING APPARATUS (SCBA) MAY BE REQUIRED IF AEROSOLS RUPTURE & CONTENTS ARE SPILLED UNDER FIRE CONDITIONS.

Unusual Fire/Explosion Hazard:PRESSURIZED AEROSOL CNTNRS @ELEVATED TEMPS MAY VENT/RUPTURE/BURST, & ADD TO FLYING/FALLING DEBRIS. DECOMPOSITION MAY OCCUR.

===== 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 TEMPS EXCEED 120F/49C.DO NOT PUNCTURE/DMG CNTNRS.ROTATE SOCK TO SHELF LIFE TO 1YR.

Other Precautions:AVOID BREATHING VAP/PROLONGED SKIN EXPO.USE ONLY IN WELL-VENTILATED AREAS.

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

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Respiratory Protection:UNDER NORMAL MFG CONDITIONS NO RESPIRATORY PROTECTION IS REQUIRED WHEN USING THIS PRODUCT. SELF-CONTAINED BREATHING APPARATUS (SCBA) IS REQUIRED IF LG SPILL OCCURS.

Ventilation:NORMAL VENTI FOR STD MFG PROCEDURES GENERALLY ADEQUATE.LOC EXHAU USED WHEN LG AMTS RELEASED.MECH VENTI USED IN LOW PLACE

Protective Gloves:BUTYL GLOVES.

Eye Protection:CHEM SPLASH GOGGLES.

Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices:DO NOT SPRAY ON SKIN.

Supplemental Safety and Health

HEALTH HAZ:CHALLENGE HAS INDUCED SER CARD IRREG.SKIN:NOT CORRO/IRRIT AFT SINGLE CONTACT.REPEATED CAUSE DEFAT/IRRIT.MATL POORLY ABSORB THRU SKIN.EYE:LIQ CONTACT-DISCOMFT,USUALLY NO EXTENDED EFFECT.ORAL :LOW ORAL TOXICITY,AVOID INGEST. 1ST AID:DRUGS SHOLD BE CONSIDERED ONLY AS LAST RESORT IN LIFE THREAT EMERGENCIES.

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

HCC:V2

Boiling Pt:B.P. Text:118F,48C

Melt/Freeze Pt:M.P

/F.P Text:NP
Decomp Temp:Decomp Text:ND
Vapor Pres:334 @77F
Vapor Density:2.9 @77F
Spec Gravity:1.57G/CC @77F
pH:NEUTRA
Viscosity:NP
Evaporation Rate & Reference:2.8, CCL4=1
Solubility in Water:NEGLIGIBLE
Appearance and Odor:CLEAR & COLORLESS LIQUID, FAINT SOLVENT ODOR.
Percent Volatiles by Volume:100
Corrosion Rate:NP

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

Stability Indicator/Materials to Avoid:YES
ALKALI OR ALKALINE EARTH METALS, POWDERED AL, ZN, BE, ETC.
Stability Condition to Avoid:STABLE HOWEVER AVOID SPRAYING NEAR OPN
FLAMES/RED HOT SURFACES. DO NOT HEAT AEROSOL CNTNRS ABOVE 49C/120F.
Hazardous Decomposition Products:DECOMP BY HI TEMP(OPN FLAME,GLOWING
METAL SURFACES,ETC)FORMING HYDROCHLORIC & HYDROFLUORIC AICDS,POSS
CARBONYL HALIDES.

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

Waste Disposal Methods:DO NOT PUNCTURE/INCINERATE AEROSOL CANS. COMPLY
W/LOCAL, STATE AND FEDERAL REGULATIONS. CERCLA HAZ SUB:NO
. TOXIC
CHEM:TRICHLOROTRIFLUOROETHANE COMPONENT ONLY.

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