

MILLER-STEPHENSON CHEMICAL CO.INC. -- 1,1,1-TRICHLOROETHANE -- 6810-00-930-6311

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

Product ID:1,1,1-TRICHLOROETHANE

MSDS Date:03/01/1989

FSC:6810

NIIN:00-930-6311

MSDS Number: BKBDZ

=== Responsible Party ===

Company Name:MILLER-STEPHENSON CHEMICAL CO.INC.

Address:GEORGE WASHINGTON HIGHWAY

City:DANBURY

State:CT

ZIP:06810

Country:US

Info Phone Num:203-743-4447

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ncy Phone Num: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:METHYL CHLOROFORM (1,1,1-TRICHLOROETHANE) (SARA III)

CAS:71-55-6

RTECS #:KJ2975000

Fraction by Wt: 96.8%

Other REC Limits:NONE SPECIFIED

OSHA

PEL:350 PPM/450 STEL
ACGIH TLV:350 PPM/450STEL;9192
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS
Ozone Depleting Chemical:1

Ingred Name:CARBON DIOXIDE
CAS:124-38-9
RTECS #:FF6400000
Fraction by Wt: 3.2%
Other REC Limits:NONE SPECIFIED
OSHA PEL:5000 PPM
ACGIH TLV:5000PPM/30000STEL;93

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:FATA

LITIES FOLLOWING SEVERE ACUTE

EXPOSURE TO VARIOUS CHLORINATED SOLVENTS HAVE BEEN ATTRIBUTED TO
VENTICULAR FIBRILLATION.

Explanation of Carcinogenicity:THE EPA'S SCIENCE ADVIS BOARD CONCLUDED
THERE IS NO EVIDENCE TO SUGGEST CARCINOGENIC ACTIVITY FOR 1,1,1
TRICHLOROETHANE.

Effects of Overexposure:INHALATION:DIZZINESS,HEADACHES,NARCOSIS,
ANESTHESIA,SUFFOCATION,CIRCULATORY SYSTEM DEPRESS,CENTRAL NERVE
SYSTEM DAMAGE/DEATH.SKIN:IRRIT & DERMATITIS.EYE:IRRIT.ORAL:IRRIT OF
THE

MOUTH/GI TRACT W/OTHER EFFECTS LISTED ABOVE FOR
INHALATION.VOMITING/SUBSEQUENT ASPIRATION INTO LUNGS MAY LEAD TO
CHEM PNEUMONIA/PULMONA EDEMA.

Medical Cond Aggravated by Exposure:CARDIOVASCULAR DISEASE.

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

First Aid:INHALED:MOVE TO FRESH AIR.IF NECESSARY,GIVE CPR/OXYGEN.DO NOT
GIVE EPINEPHRINE/SIMILAR DRUGS AS MAY INDUCE VERTRICULAR
ARRYTHMIA.PYROLIZED FUMES INHALATION:RECOVER 1-2DAYS.EYE:FLUSH
W/H2O 15 MIN.

IF IRRITATION OCCURS, CONSULT
PHYSICIAN. SKIN: FLUSH W/ SOAP/H₂O 15 MIN WHILE REMOVING CONTAMINATED
CLOTHES/SHOES. IF IRRITATION OCCURS, CONSULT A DOCTOR. ORAL: IF
UNCONSCIOUS, DRINK LOTS OF WATER. DO NOT INDUCE VOMIT. TAKE TO HOSPITAL

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Fire Fighting Measures
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Flash Point: NONE
Lower Limits: 8
Upper Limits: 15
Extinguishing Media: WATER, DRY CHEMICAL, OR CARBON DIOXIDE
Fire Fighting Procedures: WEAR NIOSH/MSHA-APPROVED PRESSURE-DEMAND,
SELF-CONTAINED BREATHING APPARATUS
FOR POSSIBLE EXPOSURE TO
HYDROGEN CHLORIDE AND POSSIBLE TRACE OF PHOSGENE.
Unusual Fire/Explosion Hazard: PRESSURIZED AEROSOL CONTAINERS AT
ELEVATED TEMPS MAY VENT, RUPTURE OR BURST/ADD TO FLYING/FALLING
DEBRIS. INTENSE HEAT MAY CAUSE DECOMP W/EMISSION (HALOGEN ACID).

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Accidental Release Measures
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Spill Release Procedures: EVACUATE & VENT AREA. REMOVE POSSIBLE IGNITION
SOURCES. ONLY PERSONNEL EQUIPPED W/ PROPER RESPIRATORY & SKIN/EYE PROTECTION
SHOULD BE PERMITTED IN THIS AREA. DIKE SPILL. COLLECT IN ABSORBENT
MATERIAL/TRANSFER TO STEEL DRUMS FOR RECOVERY/DISPOSAL. SMALL: WIPE
UP/ALLOW TO DRY

=====
Handling and Storage
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Handling and Storage Precautions: DO NOT STORE NEAR SOURCES OF
HEAT, INDIRECT SUNLIGHT OR WHERE TEMPS EXCEED 49C/120F. DO NOT
PUNCTURE/DAMAGE CONTAINERS. ROTATE STOCK TO SHELF LIFE OF 1Y
Other Precautions: DO NOT SPRAY LIQUID ON HANDS/EYES. DO NOT USE IN
POORLY VENT/CONFINED AREAS
W/OUT PROPER RESPIRATORY PROTECTION. VAPORS ARE
HEAVIER THAN AIR & WILL COLLECT IN LOW AREAS. LIQUID OXYGEN/STRONG
OXIDANTS MAY FORM EXPLOSIVE MIXTURE WITH 1,1,1-TRICHLOROETHANE

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Exposure Controls/Personal Protection
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Respiratory Protection: UNDER NORMAL MANUFACTURING CONDITIONS NO
RESPIRATORY PROTECTION IF REQUIRED.
Ventilation: ADEQUATE VENTILATION IS REQUIRED TO CONTROL EXPOSURES BELOW
PERMISSIBLE LIMITS.
Protective Gloves: NEOPRENE, VITON, OR POLYETHYLENE GLOVES

ES.

Eye Protection:CHEMICAL SPLASH GOGGLES MAY BE USED.

Work Hygienic Practices:THOROUGHLY CLEAN CONTAMINATED CLOTHING AND SHOES BEFORE REUSE OR DISCARD.

Supplemental Safety and Health

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

HCC:V2

Boiling Pt:B.P. Text:165.4

Vapor Pres:120 MM HG

Vapor Density:4.54 @ 68F

Spec Gravity:1.31 G/CC

pH:6-7.5

Evaporation Rate & Reference:1.4 (CC14=1)

Solubility in Water:NEGLIGIBLE

Appearance and Odor:CLEAR, COLORLESS, LIQUID, ETHER

EAL ODOR

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

FINELY DIVIDED REACTIVE METALS AND STRONG CAUSTICS.

Stability Condition to Avoid:AVOID SPRAYING NEAR OPEN FLAMES OR RED HOT SURFACES. DO NOT HEAT AEROSOL CONTAINERS ABOVE 49C/120F.

Hazardous Decomposition Products:CAN BE DECOMP BY HIGH

TEMPERATURES(OPEN FLAMES,GLOWING SURFACE,ETC.)FORMING HALOGEN ACIDS AND PHOSGENE IN SMALLER AMTS.

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

Waste Disposal Methods:COMPLY WITH FEDERAL, STATE AND LOCAL

REGULATIONS. REMOVE TO A PERMITTED WASTE DISPOSAL FACILITY. DO NOT PUNCTURE OR INCINERATE AEROSOL CANS.

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