

MILLER-STEPHENSON CHEMICAL CO INC. -- MS-171/CO2 CONNECTOR PLUS -- 6810-01-367-8095

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

Product ID:MS-171/CO2 CONNECTOR PLUS

MSDS Date:08/01/1992

FSC:6810

NIIN:01-367-8095

MSDS Number: BSBCJ

=== 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:203-797-2212/800-424-9300

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%

Other REC L

imits:NONE RECOMMENDED
OSHA PEL:350 PPM/450 STEL
ACGIH TLV:350 PPM/450STEL;9293
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%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:5000 PPM
ACGIH TLV:5000PPM/30000STEL;93

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

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Haz

ards Acute and Chronic:PROLONG/REPEATED

CONTACT:IRRITATION/DERMATITIS. EXTREME EYE IRRITATION. EXCESS INHAL
CONC VAPOR CAUSES

DIZZINESS/HEADACHE/NARCOSIS/ANESTHESIA/SUFFOCA/DEPRESSION/CNS
DAMAGE/DEATH. EXPOSURE TO CL SOLVEN TS: VENTICULAR
FIBRILLATION/DEATH. INDGESTION: IRRITATION OF MOUTH/GI TRACT. CHEM
PNEUMONIA & PULMONARY EDEMA.

Explanation of Carcinogenicity:PER MFG'S MSDS:DOCUM EVICENCE SUGGEST NO
INCREASE OF CANCER INCIDENCE & PER EPA ADV BOARD NO CARCI ACTIVIT
Y

FOR SOLVENT.

Effects of

Overexposure:INH:DIZZINESS/HEADACHE/NARCOSIS/ANESTHESIA/SUFFOCATION
/DEPRESSION/CNS DAMAGE/DEATH. SEVER EXPOSURE TO VARIOUS CL SOLVENTS
ARRIBUTED TO VENTICULAR FIBRILLATION INCLUDING DEATH.

SKIN:DERMATITIS. INDGEST ION:PNEUMONIA & PULMONARY EDEMA MAY LEAD
TO DEATH.

Medical Cond Aggravated by Exposure:CARDIOVASCULAR DISEASE, CENTRAL
NERVOUS SYSTEM, VENTRICULAR FIBRILLATION, CIRCULATORY SYSTEM.

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

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First Aid:INH:MOVE TO FRESH AIR. GIVE ART RESP/OXYGEN. DO NOT GIVE EPINEPHRINE/SIMILAR DRUGS. FLUSH EYE W/WATER FOR @ LEAST 15MINS. FLUSH SKIN W/SOAP&WATER FOR @ LEAST 15MINS.INDGESTION:DRINK LG AMT OF WATER; D O NOT INDUCE VOMITING. SEE DOCTOR.

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

Flash Point Method:TOC
Flash Point:NONE
Lower Limits:8
Upper Limits:15
Extinguishing Media:WATER, DRY CHEMICALS, OR CARBON DIOXIDE.
Fire Fighting Proc
edures:WEAR NIOSH/MSHA APPROVED PRESSURE-DEMAND,
SELF-CONTAINED BREATHING APPARATUS FOR POSSIBLE EXPOSURE TO
HYDROGEN CHLORIDE & POSSIBLE TRACES OF PHOSGENE.
Unusual Fire/Explosion Hazard:PRESSURIZED AEROSOL CONTAINERS @ HI TEMP
MAY VENT/RUPTURE/BURST & ADD TO FLYING & FALLING DEBRIS.INTENSE
HEAT MAY CAUSE DECOMPOSITION W/EMISSION OF HALOGEN ACID

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

Spill Release Procedures:EVACUATE/VENTILATE AREA. REMOVE IGNITION

SOURCES. USE PROPER RESPIRATORY & SKIN/EYE PROTECTION. DIKE SPILL,
COLLECT W/ABSORBENT MATERIAL, TRANSFER TO STEEL DRUMS. SMALL SPILL
ALLOW TO EVAPORATE.

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

Handling and Storage Precautions:DO NOT STORE NEAR SOURCES OF
HEAT/DIRECT SUNLIGHT OR WHERE TEMPERATURES EXCEED 120F/49C. ROTATE
STOCK TO SHELF LIFE OF ONE YEAR.
Other Precautions:NOTE TO DOCTOR: DO NOT ADMINISTER ADRENALIN OR
SIMILAR DRUGS. SUCH DRUG
S MAY INDUCE VENTRICULAR ARRYTHMA. VAPORS
ARE HEAVIER THAN AIR & WILL COLLECT IN LOW AREAS. TRICHLORETHANE
MAY FORMS EXPLOSIVE MI XTURES W/LIQ OXYGEN OR STRONG OXIDANTS.

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

Respiratory Protection:UNDER NORMAL MANUFACTURING CONDITIONS NO
RESPIRATORY PROTECTION REQUIRED. IN POOR VENTILATED OR CONFINED
AREAS AND FIREFIGHTING WEAR NIOSH/MSHA APPROVED PRESSURE-DEMAND
SELF-CONTAINED BREATHING APPARA TUS.
Ventilation

:ADEQUATE VENTILATION NEEDED TO CONTROL EXPOSURES BELOW PERMISSIBLE LIMITS. NORMAL WORKING CONDITIONS NOT REQUIRED.
Protective Gloves:NEOPRENE, VITON, POLYETHYLENE GLOVES.
Eye Protection:CHEMICAL SPLASH GOGGLES.
Other Protective Equipment:APRON. THOROUGHLY CLEAN CONTAMINATED CLOTHING & SHOES BEFORE REUSE.
Work Hygienic Practices:WASH HANDS AFTER HANDLING & BEFORE EATING/SMOKING/DRINKING.
Supplemental Safety and Health
GI TRACT=GASTROINTESTINAL TRACT.

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

HCC:G3
Boiling Pt:B.P. Text:165F,74C
Decomp Temp:Decomp Text:N/D
Vapor Pres:120 (68F)
Vapor Density:4.54 (68F)
Spec Gravity:1.31 (77F)
pH:6-7.5
Evaporation Rate & Reference:0.13 (CCL4=1)
Solubility in Water:NEGLIGIBLE
Appearance and Odor:CLEAR, COLORLESS LIQUID W/ ETHEREAL ODOR.
Percent Volatiles by Volume:99%

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

Stability Indicator/Materials to Avoid:YES
FINELY DIVIDED REACTIVE METALS &
STRONG CAUSTICS. LIQUID OXYGEN/STRONG
OXIDANTS MAY FORM EXPLOSIVE MIXTURES W/TRICHLOROEO
Stability Condition to Avoid:AVOID SPRAYING NEAR OPEN FLAMES OR RED HOT SURFACES. DO NOT HEAT AEROSOL CONTAINERS ABOVE 120F/49C.
Hazardous Decomposition Products:CAN DECOMPOSE @ HI TEMP (OPEN FLAMES, GLOWING SURFACES,ETC.) FORMING HALOGEN ACIDS & PHOSGENE IN SMALLER AMOUNTS.

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

Waste Disposal Methods:DISPOSE IAW FEDERAL/STATE/L

OCAL REGULATIONS.

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

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