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Product ID:MS-181/CO2 CONNECTOR CLEANER MSDS Date:02/01/1999 FSC:6850 NIIN:01-367-8095 Status Code:A **MSDS Number: CJVNQ** === Responsible Party === Company Name: MILLER-STEPHENSON CHEMICAL CO, INC Address:55 BACKUS AVE/GEORGE WASHINGTON HIGHWAY Box:950 City:DANBURY State:CT ZIP:06 810 Country:US Info Phone Num:203-743-4447 Emergency Phone Num:203-797-2212 Preparer's Name: JOANNA SAFFO Chemtrec Ind/Phone:(800)424-9300 CAGE:18598 === Contractor Identification === Company Name: DYNAMIC CHEMICALS INC Address:415 LAWRENCE BELL DRIVE SUITE 5 Box:City:BUFFALO State:NY ZIP:14221 Country:US Phone:716-633-0361 Contract Num:SPO450-00-M-D238 CAGE:0VZV9 Company Name: MILLER-STEPHENSON CHEMICAL CO INC Address:55 BACKUS AVE/GEORGE WASHINGTON HWY Box:950 City:DANBURY State:CT ZIP:06810 Coun

try:US Phone:203-743-4447 CAGE:18598

Ingred Name:TRICHLOROTRIFLUOROETHANE CAS:76-13-1 RTECS #:KJ4000000 Minumum % Wt:84. Maxumum % Wt:85. Other REC Limits:NOT PROVIDED. OSHA PEL:7600 MG/M3;1000 PPM ACGIH TLV:7670 MG/M3;1000 PPM ACGIH STEL:9590 MG/M3;1250 PPM Ozone Depleting Chemical:1

Ingred Name:ACETONE CAS:67-64-1 RTECS #:AL3150000 Minumum % Wt:9. Maxumum % Wt:12. Other REC Limits:NOT PROVIDED. OSHA PEL:2400 MG/M3;1000 PPM

ACGIH TLV:1780 MG/M3;750 PPM ACGIH STEL:2380 MG/M3;1000 PPM EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:CARBON DIOXIDE CAS:124-38-9 RTECS #:FF6400000 Minumum % Wt:2. Maxumum % Wt:4. Other REC Limits:NOT PROVIDED. OSHA PEL:9000 MG/M3;5000 PPM ACGIH TLV:9000 MG/M3;5000 PPM ACGIH STEL:54000 MG/M3

Ingred Name:POLYPHENYL ETHER CAS:3705-62-2 = Wt:1. Other REC Limits:NOT PROVIDED. OSHA PEL:NOT PROVIDED. ACGIH TLV:NOT PROVIDED.

LD50 LC50 Mixture:LD50(ORAL,RAT) 43000 MG/KG;TRICLFLETHANE Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: INHALATION OF HIGH CONCENTRATIONS OF VAPOR IS HARMFUL AND MAY CAUSE HEART IRREGULARITIES, UNCONSCIOUSNESS OR DEATH. VAPOR REDUCES OXYGEN AVAILABLE FOR BREATHING, PRODUCT CAUSES EYE: AND SKIN IRRITATIO N. HUMAN HEALTH EFFECTS OF OVEREXPOSURE BY INHALATION, INGESTION, OR SKI N OR EYE CONTACT MAY CAUSE EYE IRRITATION, DRYING OF SKIN WITH REPEATED CONTACT, NAUSEA, HEADACHE, OR WEAKNESS, OR TEMPORARY NE RVOUS SYSTEM DEPRESSION WITH ANESTHETIC EFFECTS SUCH AS DIZZINESS. CONFUSION AND LOSS OF CONSCIOUSNESS. ORAL: ALTHOUGH ORAL TOXICITY IS LOW, INGESTION IS OF FREON TA SOLVENT IS TO BE AVOIDED. Explanation of Carcinogenicity:NONE OF THE COMPONENTS ARE LISTED AS A CARCINOGEN BY IARC, NTP, OSHA. Effects of Overexposure: INHALATION OF HIGH CONCENTRATIO NS OF VAPOR IS HARMFUL AND MAY CAUSE HEART IRREGULARITIES, UNCONSCIOUSNESS OR DEATH. VAPOR REDUCES OXYGEN AVAILABLE FOR BREATHING. PRODUCT CAUSES EYE: AND SKIN IRRITATIO N. HUMAN HEALTH EFFECTS OF OVEREXPOSURE BY INHALATION, INGESTION, OR SKIN OR EYE CONTACT MAY CAUSE EYE IRRITATION, DRYING OF SKIN WITH REPEATED CONTACT, NAUSEA, HEADACHE, OR WEAKNESS, OR TEMPORARY NE RVOUS SYSTEM DEPRESSION WITH ANESTHETIC EFFECTS SUCH AS DIZZINESS, CONFUSION AND LOSS OF CONSCIOUS NESS, ORAL: ALTHOUGH ORAL TOXICITY IS LOW, INGESTION IS OF FREON TA SOLVENT IS TO BE AVOIDED. Medical Cond Aggravated by Exposure: A MEDICAL CONDITION POSSIBLY AGGRAVATED BY EXPOSURE IS CARDIOVASCULAR DISEASE.

First Aid:EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN. SKIN: FLUSH WITH WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS. ORAL: NO SPECIFIC INTERVENTION IS

INDICATE D AS THE CONPOUND IS NOT LIKELY TO BE HAZARDOUS BY INGESTION. HOWEVER, CONSULT A PHYSICIAN IF NECESSARY. DO NOT INDUCE VOMITING AS THE HAZARD OF ASPIRATING THE MATERIAL INTO THE LUNGS IS A GREATER HAZ ARD THAN ALLOWING IT TO PROGRESS THROUGH THE GI TRACT. NOTE TO PHYSICIAN: DUE TO POSSIBLE DISTURBANCES OF CARDIAC RHYTHM, CATECHLOAMINE DRUGS (EPINEPHRINE) SHOULD BE CONSIDERED ONLY AS A LAST RESORT I N LIFE THREATENING EMERGENCIES.

======= Fire Fi

Flash Point Method:TOC Flash Point:NONE Autoignition Temp:Autoignition Temp Text:N/D Lower Limits:NOT RELEVANT Upper Limits:NOT RELEVANT Extinguishing Media:AS APPROPRIATE FOR COMBUSTIBLES IN AREA. Fire Fighting Procedures:ADDITION OF EXCESS WATER (>0.2%) WILL EXTRACT ACETONE AND MAY FORM FLAMMABLE, SUPERNATANT LIQUID LAYER. SELF-CONTAINED BREATHING APPARATUS MAY BE REQUIRED IF AEROSOLS RUPTURE AND CONTENTS ARE SPILLED UNDER FIRE CONDITIONS. Unusual Fire/Explosion Hazard:PRESSURIZED AEROSOL CONTAINERS AT ELEVATED TEMPERATURES MAY VENT, RUPTURE OR BURST AND ADD TO FLYING AND FALLING DEBRIS. INTENSE HEAT MAY CAUSE DECOMPOSITION WITH EMISSION OF HALOGEN ACIDS.

Spill Release Procedures: VENTILATE AREA. REMOVE OPEN FLAMES OR RED HOT SURFACES. ALLOW TO EVAPORATE. IF A LARGE SPILL, COLLECT ON ABSORBENT MATERIAL AND TRANSFER TO A STEEL DRUM FOR RECOVERY OR

DISPOSAL. Neutralizing Agent:NOT RELEVANT

Handling and Storage Precautions:DO NOT STORE NEAR SOURCES OF HEAT, IN DIRECT SUNLIGHT OR WHERE TEMPERATURES EXCEED 120F. DO NOT PUNCTURE OR DAMAGE CONTAINERS. ROTATE STOCK TO SHELF LIFE OF ONE YEAR.
Other Precautions:AVOID BREATHING HIGH CONCENTRATIONS OF VAPORS. AVOID CONTACT OF LIQUID WITH EYES AND PROLONGED SKIN EXPOSURE. DO NOT ALLOW PRODUCT TO CONTACT OPEN
FLAME OR ELECTRICAL HEATING ELEMENTS BECAUSE DANGEROU S DECOMPOSITION PRODUCTS WILL FORM.

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

Respiratory Protection:NO RESPIRATORY PROTECTION IS REQUIRED WHEN USING THIS PRODUCT. SELF-CONTAINED BREATHING APPARATUS IS REQUIRED IF A LARGE SPILL OCCURS.

Ventilation:LOCAL EXHAUST WHEN LARGE AMOUNTS ARE RELEASED. MECHANICAL VENTILATION FOR LOW AREAS

Protective Gloves:BUTYL FOR PROLONGED OR REPEATED CONTACT Eye Protect ion:CHEMICAL SPLASH GOGGLES AS NEEDED Other Protective Equipment:NOT PROVIDED. Work Hygienic Practices:DO NOT SPRAY LIQUID ON SKIN. Supplemental Safety and Health NONE

HCC:V2 NRC/State Lic Num:NOT RELEVANT Boiling Pt:=43.6C, 110.5F Decomp Temp:>25.C, 77.F Vapor Pres:306MM HG @ 77F Vapor Density:5.2 Spec Gravity:1.41 @ 77F pH:NEUTRAL Viscosity:NOT AVAILABLE. Evaporation Rate & amp; Reference:2.0 (CC14=1) Solubility in Water:ACE TONE IS MISCIBLE Appearance and Odor:CLEAR, COLORLESS LIQUID; FAINT SOLVENT ODOR. Percent Volatiles by Volume:99

Stability Indicator/Materials to Avoid:YES FINELY DIVIDED REACTIVE METALS: POWDERED AL, MG, ZN, BE, ETC.. Stability Condition to Avoid:HIGH TEMPERATURES (ABOVE 120F/49C), FLAMES, GLOWING METAL SURFACE Hazardous Decomposition Products:HALOGN ACIDS, PHOSGENE IN SMALLER

AMOUNTS

================= Toxicologic

Toxicological Information:TRICHLOROTRIFLUOROETHANE LC50 RATS 52,000 PPM/4HRS, ACETONE ALC RATS 64,000 PPM/4 HRS. ACETONE LD50 RATS 9,750 MG/KG

Ecological:NOT PROVIDED.

Waste Disposal Methods:COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS. REMOVE TO A PERMITTED WASTE DISPOSAL FACILITY.

Transport Information:DOMESTIC: CONSUMER COMMODITY, ORM-D. INTERNATIONAL AIR (IATA): AEROSOLS, NON-FLAMMABLE, PACKING INSTRUCTION 203, NON-FLAMMABLE GAS, 2.2, 1950. DOT/IATA LABEL: NON-FLAMMABLE GAS

SARA Title III Information:ACUTE HEALTH: YES. PRESSURE HAZARD: YES. CERCLA HAZARDOUS SUBSTANCE: YESTOXIC CHEMICALS: YES. Federal Regulatory Information:NOT PROVIDED.

State Regulatory Information:NOT PROVIDED.

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