MILLER-STEPHENSON CHEMICAL CO INC -- MS-941/CO2 SAFEZONE PRECISION CLEANING SOLVENT -- 6850-01-383-6719

Product ID: MS-941/CO2 SAFEZONE PRECISION CLEANING SOLVENT
MSDS Date: 04/01/1993
FSC: 6850
NIIN: 01-383-6719
MSDS Number: BTHKL

Company Name: MILLER-STEPHENSON CHEMICAL CO INC
Address: GEORGE WASHINGTON HWY
Box: 950
City: DANBURY
State: CT
ZIP: 06810
Country: US
Info Phone Num: 203-743-4447
Emergency Phone Num: 203-797-2212 (CHEMTREC 800-424-9300)
Preparer’s Name: JOANNA SAFFO
CAGE: 18598

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Ingrid Name: ETHANE, 1,1-DICHLORO-1-FLUORO-
CAS: 1717-00-6
RTECS #: KI0997000
Fraction by Wt: 97%
Other REC Limits: 500 PPM (MFR)
Ozone Depleting Chemical: 2

Ingrid Name: CARBON DIOXIDE
CAS: 124-38-9
RTECS #: FF6400000
Fraction by Wt: 3%
Other REC Limits: NONE RECOMMENDED
OSHA PEL: 5000 PPM
ACGIH TLV: 5000 PPM/30000 STEL; 94

Routes of Entry: Inhalation: YES  Skin: NO  Ingestion: YES
Reports of Carcinogenicity: NTP: NO  IARC: NO  OSHA: NO
Health Hazards Acute and Chronic: ACUTE: INHALATION OR INGESTION MAY CAUSE CNS DEPRESSION, CARDIAC ARRTHYMIA, ASPHYXIATION; RESPIRATORY AND GI TRACT IRRITATION. CONTACT MAY CAUSE SKIN AND EYE IRRITATION, CONJUNCTIVITIS. CHRONIC: NONE SPECIFIED BY MANUFACTURER.
Explanation of Carcinogenicity: NO INGREDIENT OF A CONCENTRATION OF 0.1% OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN.
Effects of Overexposure: INHALED/INGESTED: HEADACHE, DIZZINESS, NAUSEA, LOSS OF CONCENTRATION, COUGHING, SHORTNESS OF BREATH. EYES:
REDNESS, TEARING, STINGING, DISCOMFORT. SKIN: REDNESS, DEFATTING, DISCOMFORT.
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid: INHALED: IMMEDIATELY REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION. EYES: FLUSH WITH LOTS OF WATER FOR 15 MINUTES, HOLD LIDS OPEN. CALL A DOCTOR. SKIN: FLUSH WITH LOTS OF WATER. INGESTED: DO NOT INDUCE VOMITING! IF CONSCIOUS, GIVE WATER. GET MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO UNCONSCIOUS PERSON.

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

Flash Point Method:TCC
Flash Point:NONE
Autoignition Temp:=550.C, 1022.F
Lower Limits:7.4
Upper Limits:15.5
Extinguishing Media:WATER SPRAY OR FOG, ALCOHOL FOAM, DRY CHEMICAL OR CARBON DIOXIDE.
Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS.STOP FLOW OF GAS, DO NOT PUT OUT FIRE UNLESS LEAK CAN BE STOPPED IMMEDIATELY.USE WATER TO COOL FIRE EXPOSED CONTAINERS.
Unusual Fire/Explosion Hazard:VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL TO A SOURCE OF IGNITION AND FLASH BACK. AVOID HIGH TEMPERATURES AND STATIC CHARGES.

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

Spill Release Procedures:VENTILATE AREA. DO NOT FLUSH TO SEWER. DIKE SPILL. COLLECT ON ABSORBENT MATERIAR AND TRANSFER TO STEEL DRUMS FOR RECOVERY OR DISPOSAL.
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 TEMPERATURES EXCEED 120F/49C. ROTATE STOCK TO SHELF LIFE OF ONE YEAR.
Other Precautions:USE WITH SUFFICIENT VENTILATION TO KEEP EMPLOYEE EXPOSURES BELOW THE RECOMMENDED LIMIT.

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

Respiratory Protection:NONE NORMALLY REQUIRED. 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 PEL/TLV.
Protective Gloves:NEOPRENE, MYLAR
Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES
Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER. HMIS: EYE WASH STATION & SAFETY SHOWER.
Work Hygienic Practices:WASH HANDS AFTER USE AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDRY CONTAMINATED CLOTHES BEFORE REUSE. SUPPLEMENTAL SAFETY AND HEALTH BECAUSE OF POSSIBLE DISTURBANCES OF CARDIAC RHYTHM, CATECHOLAMINE DRUGS, SUCH AS EPINEPHRINE, SHOULD BE CONSIDERED ONLY AS A LAST RESORT IN LIFE THREATENING EMERGENCIES.
HCC: V2
Boiling Pt: = 32.2°C, 90°F
Vapor Pres: 517.2 MMHG
Vapor Density: 4.0
Spec Gravity: 1.23
pH: 7
Evaporation Rate & Reference: > 1 (CCL4 = 1)
Solubility in Water: NEGLIGIBLE
Appearance and Odor: CLEAR, COLORLESS LIQUID IN AEROSOL CAN; FAINT ETHEREAL ODOR
Percent Volatiles by Volume: 100

Stability Indicator/Materials to Avoid: YES
STRONG MINERAL ACIDS, STRONG ALKALIS, FINELY POWDERED METALS, STRONG OXIDIZING AGENTS, SOME DESSICANTS.
Stability Condition to Avoid: UNSTABLE IF TEMPERATURES EXCEED 175°F AND IF EXPOSED TO FLAMES.
Hazardous Decomposition Products: PRODUCT IS DECOMPOSED BY TEMPERATURES TO: HYDROGEN FLUORIDE, HYDROGEN CHLORIDE, AND POSSIBLY CHLORINE.

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

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