

FREY SCIENTIFIC -- DICHLOROMETHANE,73560 -- 6810-00-244-0290

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

Product ID: DICHLOROMETHANE,73560

MSDS Date: 12/02/1994

FSC: 6810

NIIN: 00-244-0290

MSDS Number: BXC MX

=== Responsible Party ===

Company Name: FREY SCIENTIFIC

Address: 905 HICKORY LANE

City: MANSFIELD

State: OH

ZIP: 44905

Country: US

Info Phone Num: 419-589-9905/716-226-6177/334-4222

Emergency Phone Num: 419-589-1

900/800-424-9300 (CHEMTREC)

Preparer's Name: MICHAEL RASZEJA

CAGE: 6U218

=== Contractor Identification ===

Company Name: FREY SCIENTIFIC

Address: 100 PARAGON PARKWAY

Box: City: MANSFIELD

State: OH

ZIP: 44905

Country: US

Phone: 419-589-1900

CAGE: 6U218

===== Composition/Information on Ingredients =====

Ingred Name: METHYLENE CHLORIDE (SARA 313) (CERCLA)

CAS: 75-09-2

RTECS #: PA8050000

Fraction by Wt: 99.9%

Other REC Limits: NONE RECOMMENDED

OSHA PEL: 500 PPM; Z-2

ACGIH TLV: 50 PPM, A2; 9495

EPA

Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

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

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS 1500-2500 MG/KG.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:TARGET ORGANS:LUNG, EYE, SKIN, LIVER,
KIDNEY. ACUTE- EYE:TRANSIENT CORNEAL INJURY. SKIN:IRRITATION,
DEFATTING. PROLONGED SKIN CONTACT MAY RESULT IN BURNS & ABSORPTION.
INHALE:IR
RITATION, DIZZINESS. NA RCOTIC IN HIGH CONCENTRATIONS.
ORAL:ASPIRATION HAZARD. CHRONIC- LONG TERM OVEREXPOSURE MAY CAUSE
LIVER & KIDNEY DAMAGE.
Explanation of Carcinogenicity:METHYLENE CHLORIDE IS LISTED AS A
POTENTIAL HUMAN CARCINOGEN BY NTP, IARC AND ACGIH.
Effects of Overexposure:IRRITATION, NAUSEA, VOMITING, HEADACHE,
DIZZINESS, SKIN DEFATTING AND BURNS, ELEVATED CARBOXYHEMOGLOBIN
LEVELS
Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN
DISORDERS OR E
YE PROBLEMS OR IMPAIRED LIVER, KIDNEY, CARDIOVASCULAR
OR RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF
THE SUBSTANCE.

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

First Aid:GET IMMEDIATE MEDICAL ATTENTION. EYES/SKIN:IMMEDIATELY FLUSH
WITH WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS OPEN. WASH SKIN
WITH SOAP & WATER. INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN
IF NECE SSARY. ORAL:DO NOT INDUCE VOMITING EXCEPT ON ADVICE OF
COMP
ETENT MEDICAL PERSONNEL. IF CONSCIOUS, DRINK WATER. NEVER GIVE
ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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

Flash Point:NONE
Autoignition Temp:Autoignition Temp Text:1035F
Extinguishing Media:WATER SPRAY OR FOG, CARBON DIOXIDE, SAND, DRY
CHEMICAL (ABC). USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.
Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND
NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH F

ULL

FACEPIECE OPERATED IN POSITIVE PRESSURE MODE. DANGEROUS TO EYES.

Unusual Fire/Explosion Hazard: THERE IS THE POSSIBILITY OF PRESSURE BUILDUP IN CLOSED CONTAINERS. VAPORS MIXED WITH AIR IN PROPER PROPORTION WILL PROPAGATE A FLAME.

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

Spill Release Procedures: EVACUATE PERSONNEL. WEAR PROPER PROTECTIVE CLOTHING AND EQUIPMENTS. VENTILATE AREA. STOP LEAK IF POSSIBLE. CONTAIN SPILL. ABSORB WITH VERMICULITE, DRY S AND OR SIMILAR MATERIAL AND PLACE IN APPROPRIATE DISPOSAL CONTAINER. DO NOT FLUSH TO SEWER.

Neutralizing Agent: NOT RELEVANT

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

Handling and Storage Precautions: STORE IN COOL, DRY, VENTILATED PLACE AWAY FROM OPEN FLAMES, INCOMPATIBLE MATERIALS. DO NOT STORE IN ALUMINUM CONTAINERS. LOOSEN CLOSURE CAUTIOUSLY.

Other Precautions: AVOID BREATHING VAPORS. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. WASH THOROUGHLY AFTER HANDLING. KEEP OUT OF REACH OF CHILDREN. USE IN WELL VENTILATED AREA. AVOID WELDING ARCS. EMPTIED CONTAINER RETAINS RESIDUE. FOR LABORATORY USE ONLY.

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

Respiratory Protection: IF THE TLV IS EXCEEDED, WEAR A NIOSH-APPROVED FULL-FACED RESPIRATOR FOR CHLORINATED SOLVENTS.

Ventilation: USE GENERAL OR LOCAL EXHAUST VENTILATION TO MEET TLV REQUIREMENTS.

Protective Gloves: FLUOROELASTOMER (VITON), PVA

Eye Protection: C

HEMICAL SPLASH GOGGLES/SAFETY GLASSES

Other Protective Equipment: PROTECTIVE CLOTHING AS NEEDED TO PREVENT PROLONGED/REPEATED SKIN CONTACT, EYE WASH STATION AND SAFETY SHOWER.

Work Hygienic Practices: OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING, DRINKING/SMOKING.

Supplemental Safety and Health

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

HCC: T4

NRC/State Lic Num: NOT RELEVANT

Boiling Pt: B.P. Text: 104F,

40C
Melt/Freeze Pt:M.P/F.P Text:-142F,-97C
Vapor Pres:350 @ 68F
Vapor Density:2.93
Spec Gravity:1.326
Viscosity:NOT RELEVANT
Evaporation Rate & Reference:>1 (ETHER = 1)
Solubility in Water:APPROX. 2% @ 68F/20C
Appearance and Odor:CLEAR, COLORLESS VOLATILE LIQUID - PENETRATING
ETHEREAL ODOR
Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES
STRONG OXIDIZING AGENTS, STRONG CAUSTIC, CHEMICALLY ACTIVE METALS
(ALUMINUM), AMINES, POSSIBLY SODIUM, POTASSIUM & MG
Stability Condition to Avoid:STABLE UNDER ORDINARY CONDITIONS OF USE
AND STORAGE. AVOID CONTACT WITH OPEN FLAMES, ELECTRICAL ARCS,
EXCESSIVE HEAT
Hazardous Decomposition Products:HYDROGEN CHLORIDE, CARBON MONOXIDE,
CARBON DIOXIDE, PHOSGENE AND CHLORINE
Conditions to Avoid Polymerization:WATER CONTAMINATION

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE
AND FEDERAL REGULATIONS. DISPOSE OF IN AN APPROVED INCINERATOR
EQUIPPED WITH AFTERBURNER AND SCRUBBER OR CONTRACT WITH A LICENSED
WASTE DISPOSAL SERVICE. DO NOT CONTAMINATE ENVIRONMENT.

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department
of Defense. The United States of America in no manner whatsoever,
expressly or implied, warrants this information to be accurate
and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.