

MATERIAL SAFETY DATA SHEET

METHYLENE CHLORIDE

Tarr

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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PRODUCT NAME: METHYLENE CHLORIDE

PRODUCT NUMBER: MEC, MEC600

UPC NUMBER:

PREPARED BY: Patricia Rodabaugh

DATE PREPARED: 5/20/2004

LAST REVISION: 6/2/2002

SYNONYMS: Dichloromethane

Portland, Oregon
Phoenix, Arizona
Auburn, Washington
Vancouver, Washington

Print Date: 11/2/2004

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Weight %	OSHA PEL	ACGIH TLV	NOTE
Methylene chloride	75-09-2	>99	25 ppm	50 ppm	OSHA STEL: 125 ppm

3. HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW: WARNING. Keep away from food. Vapor harmful. Do not ship in aluminum trailers. Vapors are heavier than air and will collect in low areas.

POTENTIAL HEALTH EFFECTS

EYE CONTACT: Liquid is moderately irritating to the eyes. High vapor concentrations may also be irritating.

INHALATION: Excessive exposure to this product may cause headache, CNS depression, drowsiness, dizziness, loss of appetite, irritation of the respiratory tract, drunkenness, unconsciousness, or death.

INGESTION: Liquid is moderately toxic and may be harmful if swallowed; may produce CNS depression. Ingestion of product may result in vomiting; aspiration (breathing) of vomitus into the lungs must be avoided as even small quantities may result in aspir. pneumontis.

SKIN CONTACT: Liquid is moderately irritating to the skin. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

SIGNS AND SYMPTOMS OF EXPOSURE:

Early to moderate CNS depression may be evidenced by giddiness, headache, dizziness, and nausea; in extreme cases, unconsciousness and death may occur. Aspiration pneumonitis may be evidenced by coughing, labored breathing and cyanosis.

4. FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. If irritation persists, get medical attention.

INHALATION: Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Get medical attention immediately.

INGESTION: DO NOT INDUCE VOMITING. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention.

SKIN CONTACT: Remove contaminated clothing/shoes. Flush skin with water. Follow by washing with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned.

AGGRAVATED MEDICAL CONDITIONS:

Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this product. Impaired function from preexisting disorders may be aggravated by exposure to this product. Prolonged exposure above the OSHA permissible exposure limits may result in liver and kidney damage.

SUPPLEMENTAL HEALTH INFORMATION:

This product is listed as a carcinogen or potential carcinogen by NTP, IARC, and OSHA. Methylene chloride is listed under IARC as a 2B. Doctors: Only administer adrenaline after careful consideration.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: **FLASH POINT METHOD USED:** Tag Closed Cup

AUTOIGNITION: 1033 F **LEL:** 0.13 **UEL:** 0.23

EXTINGUISHING MEDIA:

Use water fog, "alcohol" foam, dry chemical, or CO2.

SPECIAL FIRE FIGHTING PROCEDURES:

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece in positive pressure mode. Move containers from fire area if it can be done without risk. Use water to keep fire-exposed containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Although chlorinated solvents in this product will not burn, vapors concentrated in a confined or poorly ventilated area could be ignited upon contact with a spark, flame or high intensity energy source.

COMBUSTION PRODUCTS:

Carbon monoxide and unidentified organic compounds may be formed during combustion. Decomposition or burning can produce hydrogen chloride or possible traces of phosgene.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:

Immediately evacuate the area. Provide maximum ventilation. Unprotected personnel should move upwind of spill. Wear protective equipment as given in Section 8. Dike around spills to prevent spreading. Prevent contamination of surface and ground waters. Recover spilled material on absorbents, such as sawdust or vermiculite, and sweep into closed containers for disposal. After all visible traces, including ignitable vapors, have been removed, thoroughly wet vacuum the area. Do not flush to sewer. If area of spill is porous, remove as much earth and gravel, etc. as necessary and place in closed containers for disposal.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Keep containers tightly closed when not in use. DO NOT cut or weld empty drums unless thoroughly cleaned. Do not ship in aluminum trailers. Chlorinated solvents can damage aluminum trailers which could ultimately result in an environmental spill.

OTHER PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN! Empty containers retain product residue and can be dangerous. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

RESPIRATORY PROTECTION:

If exposure may or does exceed occupational exposure limits (Sec. 2) use a NIOSH approved respirator to prevent overexposure. In accord with 29 CFR 1910.134 use an airline respirator or self-contained breathing apparatus when concentrations exceed permissible limits.

VENTILATION:

Provide exhaust ventilation sufficient to keep the airborne concentration of this product below its exposure limits. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination.

PROTECTIVE GLOVES:

For limited service only: Viton (R), Silver Shield (R), Poly vinyl alcohol (degrades in water).

EYE PROTECTION:

Use chemical safety goggles and/or full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work areas.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Wear gloves and protective clothing which are impervious to this product for the duration of anticipated exposure, if there is potential for skin contact.

WORK / HYGENIC PRACTICES:

Use good personal hygiene when handling this product. Wash hands after use, before eating, drinking, smoking, or using the toilet.

ENGINEERING CONTROLS:

Do not use in poorly ventilated or confined spaces without proper respiratory protection. Facilities storing or utilizing this material should be equipped with and eyewash facility and a safety shower.

EXPOSURE GUIDELINES:

May be harmful or fatal if swallowed. May irritate body tissues. Use with adequate ventilation. Avoid breathing vapor. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

SOLUBILITY IN WATER: Solubility negligible in water

APPEARANCE AND ODOR: Clear to amber liquid, ether-like odor

BOILING POINT:	104F	PERCENT VOLATILE:	70
VAPOR PRESSURE:	350	PH:	6.8 - 8.4
EVAPORATION RATE:	Slower than ether	MOLECULAR WEIGHT:	84.9
POUNDS PER GALLON:	10.98	VAPOR DENSITY:	Heavier than air
SPECIFIC GRAVITY:	1.33	OTHER PROPERTIES:	
MELTING POINT:	-142 F		
FREEZING POINT:	-97 C		

10. STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: Stable under normal temperature and pressure.

INCOMPATIBILITY:

Oxidizing materials, aluminum.

HAZARDOUS DECOMPOSITION OR BY PRODUCTS:

Hydrogen chloride and phosgene.

HAZARDOUS POLYMERIZATION: Will Not Occur

CONDITIONS TO AVOID: Oxidizing materials, aluminum, potassium, sodium, magnesium, aluminum spray equipment Aromatic solvents or

11. TOXICOLOGY INFORMATION

Cancer information: Methylene chloride (dichloromethane) has caused cancer in certain laboratory animals. Precautions should be taken to minimize exposure.

12. ECOLOGICAL INFORMATION

Avoid uncontrolled releases of this material. Where spills are possible, a comprehensive spill response plan should be developed and implemented. Any spill or leak has the potential to cause underground water contamination which may, if sufficiently severe, render a drinking water source unfit for human consumption. Contamination that does occur cannot be easily corrected.

13. DISPOSAL CONSIDERATIONS

The preferred options for disposal are to send to licensed reclaimers, or to permitted incinerators. Any disposal practice must be in compliance with federal, state, and local regulations. Do not dump into sewers, ground, or any body of water.

14. TRANSPORTATION INFORMATION

DOT Proper Shipping Name: Dichloromethane

PACKING GROUP: III

GUIDE NUMBER: 160

HAZARD CLASS: 6.1

DOT CLASS: Harmful - Stow away from foodstuffs

UN NUMBER: UN1593

15. REGULATORY INFORMATION

This product is a mixture and each component is listed in the TSCA Inventory of Chemical Substances.

16. OTHER INFORMATION

HMIS INFORMATION: HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 0 PROTECTIVE: X

SARA Title III Information:

SARA 302: Not listed as an extremely hazardous substance.

SARA 311/312: Acute: YES, Chronic: YES, Fire: YES

SARA 313: Dichloromethane (Methylene Chloride)

RQ = 1000 lbs./454 kg.

N/A = Not Applicable

NDA = No Data Available

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