



Issue Date: 5/22/15
Last Revised Date: 1/12/17

SAFETY DATA SHEET

GHS FORMAT

Methylene Chloride



1. IDENTIFICATION

PRODUCT NAME	Methylene Chloride
SYNONYMS	Dichloromethane, Epoxy Cleaning Solvent
RECOMMENDED USE/RESTRICTIONS	For industrial use only
MANUFACTURER	Mid-America Chemical Corporation 4701 Spring Road Brooklyn Heights, OH 44131 Phone: (216) 749-0100 Fax: (216) 749-7041 Email: info@midamericachem.com
EMERGENCY PHONE NUMBER	ChemTel Inc. 1(800) 255-3924 Contract: MIS4545

2. HAZARDS IDENTIFICATION

HAZARD DESIGNATION	Toxic
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GHS CLASSIFICATION:		
HEALTH	ENVIRONMENTAL	PHYSICAL
Skin Corrosion/Irritation, Category 2 Eye Irritation, Category 2 Specific Target Organ Toxicity (single exposure), Category 3		Carcinogenicity, Category 2

GHS LABEL:	
 Health Hazard	 Exclamation Mark
DANGER	WARNING
H351: Suspected of causing cancer	H315: Causes skin irritation H319: Causes serious eye irritation H335: May cause respiratory irritation H336: May cause drowsiness or dizziness



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SAFETY DATA SHEET

GHS FORMAT

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WARNING	
PRECAUTIONARY STATEMENT(S)	
PREVENTION:	
<p>P201: Obtain special instructions before use.</p> <p>P202: Do not handle until all safety precautions have been read and understood.</p> <p>P281: Use personal protective equipment as required.</p> <p>P261: Avoid breathing dust/fume/gas/mist/vapors/spray.</p> <p>P271: Use only outdoors or in a well-ventilated area.</p> <p>P264: Wash thoroughly after handling.</p> <p>P280: Wear protective gloves.</p> <p>P280: Wear eye protection/face protection.</p>	
RESPONSE:	
<p>P308 + P313: IF exposed or concerned: Get medical advice/attention.</p> <p>P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P312: Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P302 + P352: IF ON SKIN: Wash with plenty of soap and water.</p> <p>P332 + P313: If skin irritation occurs: Get medical advice/attention.</p> <p>P362: Take off contaminated clothing and wash before reuse.</p> <p>P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P337 + P313: If eye irritation persists: Get medical advice/attention.</p>	
STORAGE:	
<p>P405: Store locked up.</p> <p>P403 + P233: Store in a well-ventilated place. Keep container tightly closed.</p>	
DISPOSAL:	
<p>P501: Dispose of contents/container in accordance with local/regional/national/international regulations.</p>	

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	WEIGHT %	CAS
Dichloromethane	100%	75-09-2

4. FIRST AID MEASURES

EYES	Flush eyes with water for 15 minutes. Get medical attention.
SKIN	Wash with soap and water. Get medical attention if irritation develops or persists.
INGESTION	Immediately drink two glasses of water or milk. Do not induce vomiting. Get medical



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	attention.
INHALATION	Remove victim to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	SMALL FIRES: Any extinguisher suitable for Class B fires, dry chemical, CO ₂ , water spray or firefighting foam. LARGE FIRES: Water spray, fog or firefighting foam. Water may be ineffective for fighting the fire, but may be used to cool fire exposed containers. Keep containers and surroundings cool with water spray.
FIRE FIGHTING PROCEDURES:	Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water. For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied firefighting foam. Exposure to decomposition products may be a hazard to health. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	None
COMBUSTION PRODUCTS:	Carbon oxides, hydrogen chloride gas.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL:	Absorb liquid and place in sealed container for disposal.
LARGE SPILL:	Absorb liquid and place in sealed container for disposal. Avoid runoff into storm sewers and ditches which lead to waterways. Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. If this material is released into a work area, evacuate the area immediately.
ENVIRONMENTAL PRECAUTIONS	
WATER SPILL:	Keep material out of storm sewers and ditches that lead to waterways.



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Last Revised Date: 1/12/17

SAFETY DATA SHEET

GHS FORMAT

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LAND SPILL:	Spills and releases may have to be reported to federal and/or local authorities.
AIR SPILL:	Control or stop the loss of volatile materials to the atmosphere.
SPECIAL PROTECTIVE EQUIPMENT:	Wear suitable protective clothing, gloves and eye/face protection.

7. HANDLING AND STORAGE

HANDLING:	Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Keep container closed. Use only with adequate ventilation. Use good personal hygiene practices. Wash hands before eating, drinking, smoking. Remove contaminated clothing and clean before re-use. Destroy contaminated belts and shoes and other items that cannot be decontaminated. Keep away from heat and flame.
STORAGE:	Store in tightly closed containers in cool, dry, well-ventilated area away from heat, sources of ignition and incompatibles. Ground lines and equipment used during transfer to reduce the possibility of static spark-initiated fire or explosion. Store at ambient or lower temperature. Store out of direct sunlight. Keep containers tightly closed and upright when not in use. Protect against physical damage. Empty containers may contain toxic residue or vapors. Do not cut, grind, drill, or weld on or near containers unless precautions are taken against these hazards.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS	OHS A		ACGIH	
	TWA	STEL	TWA	STEL
Dichloromethane	25ppm	125ppm	50ppm	N/A

ENGINEERING CONTROLS	Use only in a well ventilated area. Use explosion-proof ventilation equipment.
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PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE:	Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent).
SKIN:	Wear chemical resistant neoprene, butyl rubber or vinyl gloves.
RESPIRATORY:	NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.



Issue Date: 5/22/15
Last Revised Date: 1/12/17

SAFETY DATA SHEET

GHS FORMAT

Methylene Chloride

PROTECTIVE CLOTHING:	Wear protective gloves and clean body-covering clothing. Chemically resistant clothing and boots may be required.
WORK HYGIENIC PRACTICES	Establish good personal hygiene and work practices. Always wash hands and face before eating, drinking or smoking. Provide safety shower and eye wash station in work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
ODOR:	Pungent
APPEARANCE:	Clear, colorless liquid
pH:	N/A
PERCENT VOLATILE:	100%
VAPOR PRESSURE:	355mmHg
VAPOR DENSITY:	2.93
BOILING POINT:	104°F
FREEZING POINT:	-142°F
FLASHPOINT AND METHOD:	N/A
SOLUBILITY IN WATER:	Slight
EVAPORATION RATE:	N/A
SPECIFIC GRAVITY:	1.32
VISCOSITY:	<1 Centipoise

NOTE: The information in this section is calculated from specific known information about this product. This information should not be used as exact test results or specifications. The information is provided as typical properties for this product.

10. STABILITY AND REACTIVITY

STABLE:	Yes
HAZARDOUS POLYMERIZATION:	No
STABILITY:	Stable under ordinary conditions of use and storage.
CONDITIONS TO AVOID:	Heat, flames, and other sources of ignition.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon dioxide and/or carbon monoxide
INCOMPATIBLE MATERIALS:	Strong oxidizing agents

11. TOXICOLOGICAL INFORMATION



SAFETY DATA SHEET

GHS FORMAT

Methylene Chloride

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ACUTE	
DERMAL LD₅₀:	>2000 mg/kg (rabbit)
ORAL LD₅₀:	>2000 mg/kg (rat)
INHALATION LC₅₀:	56230ppm/8hr (inhalation - rat)
EYE EFFECTS:	Irritating to eyes.
SKIN EFFECTS:	May be absorbed through the skin in harmful amounts.
CARCINOGENICITY Chronic inhalation studies in mice have shown an increase in lung and liver tumors when exposed to concentrations well in excess of the occupational exposure limit.	
REPRODUCTIVE EFFECTS:	Not indicated
TERATOGENIC EFFECTS:	No data available
MUTAGENICITY:	Induces mutations in bacterial cells, not in mammalian cells

STOT:

Single Exposure: Vapor may cause drowsiness and dizziness, may cause respiratory irritation
Repeated Exposure: Not classified

Aspiration Hazard: Not an aspiration hazard

12. ECOLOGICAL INFORMATION

Dichloromethane

Acute Aquatic Toxicity:

LC50 (fresh water fish): 193 mg/L/96hr

LC50 (aquatic invertebrates): 27 mg/L/48hr

Persistence and Degradability:

Not hydrolyzed under normal environmental conditions, slowly biodegradable in water

Bioaccumulative Potential

Low potential for bioaccumulation

Mobility in Soil

Not predicted to have high mobility in soil

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Dispose of waste and residues in accordance with local authority requirements. Mix with compatible chemical which is less flammable and incinerate. Since emptied containers retain product residue, follow label warnings even after container is emptied. Residual vapors may explode on ignition; do not cut, drill, grind, or weld on or near this container.



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Methylene Chloride

14. TRANSPORTATION INFORMATION

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

DOT:

UN Number: UN 1593
UN Proper Shipping Name: Dichloromethane
Transport Hazard Class(es): 6.1
Packing Group: III
Environmental Hazards: N/A

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of 29 CFR §1910.1200

Dichloromethane:

US Federal Regulations:

OSHA Classification: This product is classified as a Hazardous Material by definition of the Hazard Communication Standard (29 CFR 1910.1200)
Carcinogen Status: This product is listed by NTP as 'reasonably anticipated to be a human carcinogen' and by IARC as a Group 2B Carcinogen
TSCA Inventory Status: Yes
SARA 313: This product is subject to reporting requirements
SARA 311/312: Acute, Chronic, Fire

16. OTHER INFORMATION

HMIS RATINGS:

HEALTH	2
ENVIRONMENT	0

REACTIVITY 0

PERSONAL PROTECTION

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Last Revised Date: 1/12/17

SAFETY DATA SHEET

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