# SAFETY DATA SHEET: METHYLENE CHLORIDE

### 1. IDENTIFICATION

Product Name: Synonyms:	METHYLENE CHLORIDE Dichloromethane; Methylene dichloride; Methane dichloride; Methylene bichloride; MC; DCM
Formula and Formula Weight:	CH2Cl2 84.93
Integra numbers beginning with:	M727.10; M727.14; M727.50
Recommended Use:	Commercial/industrial solvent
Restrictions on Use:	No information available

24 Hour Emergency Response: CHEMTREC 800-424-9300 (Outside USA 703-527-3887)

### 2. HAZARDS IDENTIFICATION

OSHA Classification:	Hazard Category:	Hazard Statement:	
Skin Corrosion/Irritation	2 Causes skin irritation.		
Eye Damage/Irritation	2A	Causes serious eye irritation.	
Carcinogenicity	2	Suspected of causing cancer.	
Specific Target Organ Toxicity (single exposure)	3	May cause respiratory irritation. May cause drowsiness or dizziness.	
Specific Target Organ Toxicity (repeated exposure)	2	May cause damage to organs through prolonged or repeated exposure	
Signal Word: WARNING			

#### Precautionary Statements

#### Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe fume, gas, mist, vapors, spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves, protective clothing, eye protection, face protection. Response If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice, attention. Call a poison center, doctor if you feel unwell. Specific treatment (see first aid section on this label) If skin irritation occurs: Get medical advice, attention. If eye irritation persists: Get medical advice, attention. Take off contaminated clothing and wash it before reuse. Storage Store in a well ventilated place. Keep container tightly closed. Store locked up. Disposal Dispose of contents, container in accordance with all governmental regulations. Hazards Not Otherwise Classified: No information available 3. COMPOSITION/INFORMATION ON INGREDIENTS CAS # % WEIGHT Component Synonyms Methylene chloride Dichloromethane; Methylene dichloride; Methane 00075-09-2 100

4. FIRST AID MEASURES Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. If breathing is Inhalation: difficult administer oxygen. Seek medical attention.

dichloride

Eye Contact:	Flush eves wit	n water for at least 15 minutes. Remove contact lenses, if present and easy to do. Seek medical attention.			
Skin Contact:	Wash with soap and water. Seek medical attention if irritation develops.				
Ingestion:	Do not induce vomiting. If victim is conscious, rinse mouth, give water. Never give anything by mouth to an unconsciour person. Seek immediate medical attention.				
	Symptoms and effects include irritation of eyes, nose, skin and throat; skin effects (chapping, cracking, erythema, burns), eye damage; central nervous system effects (such as headaches, disorientation, dizziness, fatigue, decreased attention span), weakness, narcosis, lightheadedness, staggering, decreased eye/hand coordination, numbness of the extremities, cardiac effects (including elevation of carboxyhemoglobin, chest pain, shortness of breath), liver effects, breathing problems, bronchitis, pulmonary edema, unconsciousness, death. Possible carcinogen.				
5. FIRE-FIGHTING MEAS					
Extinguishing Media:		Water spray, carbon dioxide, dry chemical or foam.			
Special Equipment and Pr	ecautions:	Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection.			
Specific Hazards:		Concentrated vapors can be ignited by a high intensity ignition source.			
Hazardous combustion pr	oducts:	Oxides of carbon. Toxic vapors of hydrogen chloride, phosgene, chlorine			
6. ACCIDENTAL RELEAS	SE MEASURES	3			
Spill Procedures:	respira spray	ve all potential ignition sources. Prevent spread of spill. Wear full protective equipment including suitable atory protection. Absorb with sand or inert material. Place into suitable container for disposal. Use water to reduce vapors. Do not allow material to enter sewers or release to environment. Do not breathe gas/mist/vapors/spray.			
7. HANDLING AND STOP	RAGE				
Incompatible Materials:		patible with strong acids, strong bases, strong oxidizers. Alkali metals, aluminum, magnesium, potassium,			
Ctorogo and Llandling		n, amines, vinyl compounds, plastics, rubber, water.			
Storage and Handling:	closed	locked up in a cool, dry, well-ventilated area away from incompatible materials. Keep containers tightly I and protect them from physical damage. Store under inert gas, out of sunlight, and away from heat.			
		n special instructions before use.			
		t handle until all safety precautions have been read and understood.			
		t breathe fume, gas, mist, vapors, spray. thoroughly after handling.			
		nly outdoors or in a well-ventilated area.			
		protective gloves, protective clothing, eye protection, face protection.			
8. EXPOSURE CONTROL	S AND PERS	ONAL PROTECTION			
OSHA & ACGIH Exposure					
Methylene chloride		OSHA TWA: 25 ppm OSHA STEL: 125 ppm (15 min) ACGIH TWA: 50 ppm; 174 mg/m3			
Engineering Controls:	Use a	eneral or local exhaust ventilation to meet TLV and PEL requirements.			
Respiratory Protection:	Respi	ratory protection required if airborne concentrations exceed PEL or TLV. Use a NIOSH approved full ecce supplied air respirator.			
Skin/Eye Protective Equip	ment: Safety expos with m	goggles, face shield, chemical-resistant gloves and protective clothing appropriate for the risk of ure. Viton, PVA or equivalent gloves are recommended. Contact lenses should not be worn while working nethylene chloride.			
	Select condit	ies storing or utilizing this material should have readily accessible eyewash stations and safety showers. respirators and other safety equipment in accordance with regulations and based upon the particular ions of use and risk of exposure. Always use safe chemical-handling and good industrial hygiene practices.			
9. PHYSICAL AND CHEN	IICAL PROPE				
Apearance:		Clear, colorless liquid			
Odor: Odor Threshold:		Ether-like odor			
pH:		25 to 320 ppm Not available			
Melting/Freezing Point:		-95 °C			
Initial Boiling Point and Bo	iling Range:	40 °C			
Flash Point:	0 0	Not available			
Evaporation Rate:		27.5 Butyl Acetate=1			
Flammability:		Not flammable			
Flammable or Explosive		Upper: 25			
Limits (% by volume in	aır)	Lower: 12			
Vapor Pressure: Vapor Density:		350 mm Hg@20°C 2.9			
Relative Density:		2.9 1.32 Water=1			
Solubility:		1.3 g/100 ml at 20°C			
Partition Coefficient: n-oct	anol/water	1.25			
Auto-Ignition Temperature		556 °C			
Decomposition Temperate		Not available			
Viscosity:		Not available			

10. STABILITY AND RE	ACTIVITY	No information outil				
Reactivity:		No information availa	aule			
Stability: Stable						
•		Hazardous polymerization will not occur				
· · ·		Incompatible with str	eat, sparks and open flame. Moisture, light, direct sunlight. compatible with strong acids, strong bases, strong oxidizers. Alkali metals, aluminum, magnesium,			
		potassium, sodium, amines, vinyl compounds, plastics, rubber, water.				
Decomposition Products		Oxides of carbon. Toxic vapors of hydrogen chloride, phosgene, chlorine				
11. TOXICOLOGICAL I		N				
Effects of Over Exposur			and threat Courses had dealer and			
Inhalation:	Harmful if inhaled. Irritating to the nose and throat. Causes headache, nausea, vomiting, dizziness, drowsiness, unconsciousness. Narcosis, numbness of extremities, weakness, fatigue, light-headedness, gastrointestinal irritation, central nervous system depression, headaches, disorientation, dizziness, fatigue, decreased attention span, staggering, decreased eye/hand coordination, cardiac effects (including elevation of carboxyhemoglobin, chest pain, shortness of breath), breathing problems, bronchitis, pulmonary edema, liver toxicity. May cause methemoglobin formation in the blood Severe overexposure may be fatal.					
Skin Contact:	Contact may cause irritation or burns. May cause chapping, cracking, erythema, burns. May be absorbed through the skir and contribute to the effects caused by inhalation.					
Eye Contact:		• •	d may cause temporary corneal damage.			
Ingestion:	Harmful if swallowed. Ingestion may cause headache, dizziness, nausea, vomiting, gastrointestinal irritation. Narcosis, weakness, fatigue, central nervous system depression, unconsciousness. May cause methemoglobin formation in the blood. Severe overexposure may be fatal.					
Chronic Effects:			amage to lungs, blood, central nervous sys	tem.		
Target Organs:			ntral nervous system. Cardiovascular syste			
Additional Effects:	May aggravate pre-existing liver or kidney disorders, lung disease, central nervous system disorders, heart disorders, cardiovascular disorders, anemia					
Reproductive Effects:		al may be mutagenic.				
Carcinogenicity:	Animal stud	ies indicate this mater	ial may be carcinogenic.			
Toxicity Data:		chloride is listed as a c 3, Possible Human Ca	arcinogen by OSHA, by the NTP as Antici rcinogen.	pated Human Carcinogen and by the IA		
Methylene chloride			Irritation (skin, rabbit)	Severe 810 mg/24 hr		
			Irritation (eye, rabbit)	Mild 500 mg/24 hr		
			LC50 (inhalation, mouse)	52000 mg/m3		
			LD50 (skin, rat)	> 2000 mg/kg		
			LD50 (oral, rat)	> 2000 mg/kg		
12. ECOLOGICAL INFO	ORMATION					
••••			Aquatic Toxicity Data:	Terrestrial Toxicity Data:		
Methylene chloride			LC50 Fathead minnow: 193 mg/L - 96h;	E No information available		
Persistence and degrad	ability:	No information availab	ble			
Bioaccumulative potenti	al:	No information availab				
Mobility in soil: No information available						
Other adverse effects:		No information availab	ble			
13. DISPOSAL CONSIL						
			n accordance with all local, state and feder	al regulations.		
14. TRANSPORTATION						
	ed material fo	-	nsporation, per CFR Title 49.			
UN Number:		UN1593				
Proper Shipping	Name:	Dichloromethane				
Packing Group:		 				
Hazard Class:		6.1				
Environmental h		information available				
Special precauti	ons: No	o information available				
Bulk transport:	No	information available				
Dant italioporti						
15. REGULATORY INFO	ORMATION					

## 16. OTHER INFORMATION

OSHA SDS #: 25938 rev 102 10.6.2015

NE = Not established, NA = Not applicable or Not available

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\*\*\*\*\* END OF SDS \*\*\*\*\*