



MEGHMANI FINECHEM LTD., UNIT-Dahej

MATERIAL SAFETY DATA SHEET	MSDS Rev.	REVISION DATE:	PAGE	
METHYL CHLORIDE	00	-	4	

Meghmani Finechem Ltd. urges the customers receiving this Material Safety Data Sheet (MSDS) to study it carefully to become aware of hazards, if any, of the product involved. In the interest of Safety, you should notify your employee, agent & contractors about the information on this sheet, furnish a copy of each of your customers for the product, and request your customers to inform their employees and customers as well.

1. CHEMICAL IDENTITY			
Chemical name	Methyl Chloride		
Synonym	Chloromethane, Monochloromethane , Refrigerant-40 R-40,		
Chemical Formula	CH ₃ Cl		
Chemical Classification	Organic Compound		
Molecular weight	50.49 g/mole		
2. COMPOSITION / INFORMATION ON INGREDIENTS			
Name	CAS	% by weight	
Methyl Chloride	74-87-3	100	
3. PHYSICAL / CHEMICAL DATA			
Boiling Point @ 760mm Hg	-24.2°C (-11.6°F)	Vapour Pressure	5.1 bar (73.4 psia)(@21.1°C/70°F)
Melting Point	-97.8°C (-114°F)	Solubility in water	Soluble 5.32g/L at 25°C
Vapor density	1.743 (Air-1)	Appearance	Colorless
Specific Gravity	Not applicable	Odour	A slight sweet
pH	Not applicable	Other	-
Physical State	Gas		
4. FIRE / EXPLOSION HAZARD DATA			
Flammability	Highly flammable	Flash Point	Not applicable
Auto ignition temperature	625°C	LEL	8.1%
Explosion sensitivity to impact	Not available	UEL	17.4%
Explosion sensitivity to static electricity	Not available		
Hazardous Combustion products	CO, O ₂ , Phosgene and Halogenated comp.		
Hazardous Polymerization	Has not been reported.		
Pyrophoric material	No	Corrosive	No
Organic Peroxide	No	Oxidizer	No
Explosive material	Forms explosive mixtures with air and oxidizing agents	Other	-

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NFPA Rating (estimated)	Health : 2 Flammability : 4 Reactivity : 0 Special : 0
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5. STABILITY & REACTIVITY DATA

Chemical Stability	Stable under normal temperatures and pressures.
Incompatibility with other Material	Incompatible with natural rubber and neoprene composites, but does not attack PVA.
Reactivity	May react violently or explosively with inter halogens, magnesium, Aluminum zinc, potassium, sodium or their alloys.
Hazardous reaction / decomposition products.	Will not occur./ CO, O2, Phosgene and Halogenated comp.

6. HEALTH HAZARD DATA

Routes of Entry	Inhalation, ingestion, eyes and skin.
Effects of exposure / symptoms	<p>Eye: May cause eye irritation. May cause chemical conjunctivitis.</p> <p>Skin: May cause irritation and permeator.</p> <p>Ingestion: None anticipated, as product is a gas at room temperature.</p> <p>Inhalation: The toxicological properties of this substance have not been fully investigated. Aspiration may lead to pulmonary edema. Vapors may cause dizziness or suffocation. May cause burning sensation in the chest.</p> <p>Chronic: Effects may be delayed can produce target organ damage.</p>

7. TOXICOLOGICAL INFORMATION

LD 50 / LC 50	- / 8300PPM/ 1hour (rat)
Permissible Exposure Limit	50 PPM / 103 mg/m ³ ,
Order Threshold	< 0.01 PPM
IDLH	2000 PPM


8. ECOLOGICAL INFORMATION

Ecotoxicity: Not available.
General notes: Generally not hazardous for water.

9. PREVENTIVE MEASURES / EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering Control	Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels. Valve protection caps must remain in place.
Personal Protective Equipment	<p>Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.</p> <p>Skin: Wear appropriate protective gloves to prevent skin exposure.</p> <p>Clothing: Wear appropriate protective clothing to prevent skin exposure.</p> <p>Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.</p>

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10. HANDLING & STORAGE

Normal handling	Store in a cool, dry well ventilated area. Keep container tightly closed. Keep away from heat, sparks and flame. Do not drag, slide or roll cylinders. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.
Storage Recommendation	Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Protect cylinders from physical damage. Do not allow the temperature where containers are stored to exceed 54 °C


11. EMERGENCY / FIRST AID MEASURES

Fire	Fire Extinguishing Medium	Use dry chemical or carbon dioxide to extinguish flames. Container may be explode in fire.
Exposure / First Aid Measure	Skin	Flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical aid.
	Eyes	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
	Ingestion	None anticipated, as product is a gas at room temperature.
	Inhalation	Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Special Procedure	Treat symptomatically and supportively.	
Antidotes	Not available	

12. ACCIDENTAL RELEASE MEASURE

Spills/Leaks	DANGER: Flammable, liquefied gas. FORMS EXPLOSIVE MIXTURES WITH AIR. Immediately evacuate all personnel from danger area. Use self-contained breathing apparatus where needed. Remove all sources of ignition if safe to do so. Reduce vapors with fog or fine water spray, taking care not to spread liquid with water. Shut off flow if safe to do so. Ventilate area or move container to a well-ventilated area. Flammable vapors may spread from leak and could explode if reignited by sparks or flames. Explosive atmospheres may linger. Before entering area, especially confined areas, check atmosphere with an appropriate device.
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13. DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

14. TRANSPORT INFORMATION

Proper shipping Name	Methyl Chloride
Hazard Class	2.1 Flammable gas
UN Number	1063
Packing Group	Not applicable (Gas)
Hazard Label	

15. REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Risk Phrases:

- R 13 Extremely flammable liquefied gas.
- R -16 Explosive when mixed with oxidizing substances
- R 20 Harmful by inhalation

Safety Phrases:

- S3- Keep in a cool place.
- S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.

16. MANUFACTURERS / SUPPLIERS DATA

Name of the firm	Meghmani Finechem Ltd.,	Contact Person in Emergency:
Mailing Address	CH1/CH2,GIDC Industrial Estate,Dahej Dist.: Bharuch, Gujarat (INDIA)	Mobile no (+91) 90999 85862

DISCLAIMER

MSDS creation date : 19/10/2018 Rev : 0

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