



Gujarat Alkalies and Chemicals Ltd.

Vadodara

SECTION 1: Product and Company Identification			
Name		CHLOROMETHANE; METHYL CHLORIDE	
Company		M/s Gujarat Alkalies and chemicals limited, P.O. Petrochemicals, Dist.: - Vadodara, Gujarat (India), Pin Code: 391346	
Synonyms		halocarbon 40, mono chloro methane	
Emergency Contact Details		Phone no.	09979897101, 09879604102
		E-mail	headmarketing@gacl.co.in ccr@gacl.co.in
SECTION 2: Hazards Identification			
Emergency Overview			
		Extremely flammable gas. Contains gas under pressure; may explode if heated.	
Potential Health Effects			
Inhalation	nausea, vomiting, diarrhoea, headache, drowsiness, symptoms of drunkenness, visual disturbances, bluish skin colour, lung congestion, nerve damage, paralysis, convulsions, coma, fainting, blurred vision.		
Skin	irritation, blisters, symptoms of drunkenness, nerve damage.		
Eyes	frostbite		
Ingestion	frostbite		
Disposal	Dispose of contents/container to an approved waste disposal plant		
SECTION 3: Composition/information on ingredients			
Component	CAS-No.	EC-No.	Weight %
Methyl chloride	74-87-3	200-817-4	> 99.5
SECTION 4: First Aid Measures			
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.		
Skin	If frostbite or freezing occur, immediately flush with plenty of lukewarm water (41-46 C). Do not use hot water. If warm water is not available, gently wrap affected parts in blankets. Get immediate medical attention.		
Eyes	Wash eyes immediately with large amounts of water, occasionally lifting upper and lower lids, until no evidence of chemical remains. Get medical attention immediately.		
Ingestion	Never make an unconscious person vomit or drink fluids. Give large amounts of water. DO NOT induce vomiting. If vomiting occurs, keep head lower than hips to help prevent aspiration. If person is unconscious, turn head to side. Get medical attention immediately.		
Most important symptoms/effects	Not available.		
Notes to Physician	For inhalation, consider oxygen.		
SECTION 5: Fire Fighting Measures			
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.		
Flash Point	No data available	Explosion Limits	

Auto ignition Temperature	632.0 °C	Upper	17.4 % (V)
		Lower	7 % (V)
Hazardous Combustion Products	Not pertinent.		
Specific Hazards Arising from the Chemical	Carbon oxides, Hydrogen chloride gas		
NFPA: Health: 2	Flammability: 4	Instability: 1	Physical hazards:
SECTION 6: Accidental Release Measures			
Personal Precautions	Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.		
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.		
Methods and materials for containment and cleaning up	Clean up promptly by sweeping or vacuum.		
SECTION 7: Handling and Storage			
Handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge.		
Storage	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Contents under pressure. Moisture sensitive.		
SECTION 8: Exposure Controls/Personal Protection			
Exposure Guidelines:			
	Component	OSHA PEL	ACGIH TWA
	Methyl chloride	100 ppm	50 ppm
Engineering Measures	Use with adequate ventilation. Local exhaust ventilation is preferred, because it prevents Methyl Chloride dispersion into the work place by eliminating it at its source. If appropriate, install automatic monitoring equipment to detect the presence of potentially explosive air-gas mixtures and the level of oxygen.		
Personal Protective Equipment			
Eye/face Protection	Wear splash resistant safety goggles with a face shield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.		
Skin and body protection	Wear metatarsal shoes and work gloves for cylinder handling, and protective clothing where needed. Wear neoprene gloves during cylinder change out or wherever contact with product is possible.		
Respiratory Protection	Any self-contained breathing apparatus that has a full face piece and is operated in a pressure-demand or other positive-pressure mode. Any supplied-air respirator with a full face piece that is operated in a pressure-demand or other positive pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure demand or other positive-pressure mode.		
SECTION 9: Physical and Chemical Properties			
Appearance	Compressed liquefied gas	Water solubility	5.32 g/l @ 25 °C soluble
Odour	Sweet odour	Auto-ignition	632.0 °C

		temperature	
pH	No data available	Viscosity	No data available
Melting point/freezing point	-97 °C	Flammability (solid, gas)	flammable
Initial boiling point and boiling range	-24.2 °C	Decomposition temperature	No data available
Vapour pressure	3,796.0 mmHg @ 20.0 °C	Relative density	0.915 g/cm ³ @ 25 °C
Vapour density	1.8 (air=1)	Oxidizing properties	No data available
SECTION 10: Stability and Reactivity			
Reactive Hazard	No data available		
Stability	Stable under recommended storage conditions.		
Conditions to Avoid	Heat, flames and sparks.		
Incompatible Materials	Strong oxidizing agents, Iron		
Hazardous Decomposition Products	Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas Other decomposition products - No data available		
Hazardous Polymerization	Will not polymerize.		
Hazardous Reactions	May occur		
SECTION 11: Toxicological Information			
Acute toxicity	LD ₅₀ Oral - Rat - 1,800 mg/kg		
Carcinogenicity	Limited evidence of a carcinogenic effect.		
SECTION 12: Ecological Information			
Eco toxicity	LC ₅₀ - Lepomis macrochirus (Bluegill) - 550 mg/l - 96 h		
Other	No data available		
SECTION 13: Disposal Considerations			
Waste treatment methods	Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a local regulations.		
Product	Burn in a chemical incinerator equipped with an afterburner and scrubber highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal facility.		
Contaminated packaging	Dispose in accordance with all applicable regulations.		
SECTION 14: Transport Information			
UN number	1063		
UN proper shipping name	METHYL CHLORIDE		
Transport hazard class	2.1		
Packaging group	--		
Environmental hazards	IMDG Marine pollutant: No		
SECTION 15: Regulatory Information			
Safety, health and environmental regulations/legislation specific for the substance or mixture			
This safety datasheet complies with the requirements of Regulation.			
SECTION 16: Other Information			
Disclaimer: The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.			

