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.