Gujarat Alkalies and Chemicals Ltd.
Vadodara

Date:-21-01-2021

SECTION 1: Product and Company Identification

Name	**METHYLENE CHLORIDE**	
Company	M/s Gujarat Alkalies and chemicals limited, P.O. Petrochemicals, Dist.: - Vadodara, Gujarat (India), Pin Code: 391346	
Synonyms	Dichloromethane; DCM	
Emergency Contact Details	Phone no.	09979897101, 09879604102
	E-mail	headmarketing@gacl.co.in ccr@gacl.co.in

SECTION 2: Hazards Identification

Emergency Overview



Danger:
Causes skin irritation, causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness.

Potential Health Effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Skin	Harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.
Ingestion	Harmful if swallowed.
Disposal	Dispose of contents/container to an approved waste disposal plant

SECTION 3: Composition/information on ingredients

Component	CAS-No.	EC-No.	Weight %
Methylene chloride	75-09-2	200-838-9	> 99.5

SECTION 4: First Aid Measures

Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.
Skin	Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.
Eyes	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
Ingestion	Do not induce vomiting. Call a physician immediately.
Most important symptoms/effects	Breathing difficulties. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting
Notes to Physician	Treat symptomatically.

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	556 °C	**Upper**	23 vol %
		Lower	13 vol %
Hazardous Combustion Products	Carbon monoxide (CO) Carbon dioxide (CO2) Hydrogen chloride gas Phosgene		
Specific Hazards Arising from the Chemical	Thermal decomposition can lead to release of irritating gases and vapours. Keep product and empty container away from heat and		

	sources of ignition.
NFPA: Health: 2 Flammability: 1 Instability: 0 Physical hazards: N/A	

SECTION 6: Accidental Release Measures

Personal Precautions	Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Keep people away from and upwind of spill/leak.
Environmental precautions	Should not be released into the environment. See Section 12 for additional ecological information.
Methods and materials for containment and cleaning up	Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and Storage

Handling	Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Use only under a chemical fume hood.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.

SECTION 8: Exposure Controls/Personal Protection

Exposure Guidelines:

Component	OSHA PEL	ACGIH TWA
Methylene chloride	25 ppm	50 ppm

Engineering Measures	Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by Standard.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.

SECTION 9: Physical and Chemical Properties

Appearance	Colourless liquid	**Water solubility**	Slightly soluble
Odour	sweet odour	**Auto-ignition temperature**	556 °C
pH	No data available	**Viscosity**	0.42 mPas @ 25°C
Melting point/freezing Point	- 97 °C	**Flammability (solid, gas)**	No data available
Initial boiling point and boiling range	39 °C	**Decomposition temperature**	No data available
Vapour pressure	350 mbar @ 20°C	**Relative density**	1.33
Vapour density	2.93 (Air = 1.0)	**Oxidizing properties**	No data available

SECTION 10: Stability and Reactivity

Reactive Hazard	None known, based on information available.
Stability	Stable under recommended storage conditions.
Conditions to Avoid	Heat, flames and sparks. Exposure to sunlight.
Incompatible Materials	Alkali metals, Aluminium, Strong oxidizing agents, Bases, Amines, Magnesium, Strong acids and strong bases, Vinyl compounds.
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO2), Hydrogen chloride gas, Phosgene.
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

SECTION 11: Toxicological Information

Acute toxicity	LD_{50} Oral - Rat - > 2000 mg/kg.
Carcinogenicity	Limited evidence of carcinogenicity in animal studies.

	Suspected human carcinogens.

SECTION 12: Ecological Information

Eco toxicity	LC_{50} - Pimephales promelas (fathead minnow) - 193.00 mg/l - 96 h. EC_{50} - Daphnia magna (Water flea) - 1,682.00 mg/l - 48 h
Other	Will likely be mobile in the environment due to its volatility.

SECTION 13: Disposal Considerations

Waste treatment methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.
Product	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	1593
UN proper shipping name	DICHLOROMETHANE
Transport hazard class	6.1
Packaging group	III
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.