Multichem Specialities Pvt. Ltd.
1215, Dalamal Tower,
Nariman Point, Mumbai 400021, India
T: +91 2243432121
E: multichem@multichemindia.com
www.multichemindia.com

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SAFETY DATA SHEET

DICHLOROMETHANE

SECTION 1: Identification of the substance/mixture and of the company/undertaking Trade name:

1.1 Product identifier:	
CAS Number:	75-09-2
EC number:	200-838-9
1.2 SYNONYMS:	• Methylene chloride • DCM • Dichloromethane • Methane dichloride

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
2.2 Label elements:	Labelling according to Regulation (EC) No 1272/2008 Skin irritation (Category 2) Eye irritation (Category 2) Carcinogenicity (Category 2) Specific target organ toxicity - single exposure, Central nervous system (Category 3),
Hazard Pictograms:	
Signal Word:	Danger
Hazard statements:	**H315:** Causes skin irritation. **H319:** Causes serious eye irritation. **H336:** May cause drowsiness or dizziness. **H351:** Suspected of causing cancer.
Precautionary Statements:	**P202:** Do not handle until all safety precautions have been read and understood.

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	P261: Avoid breathing mist or vapors. **P264:** Wash skin thoroughly after handling. **P302 + P352:** IF ON SKIN: Wash with plenty of water. **P305 + P351 + P338:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing**.** **P308 + P313:** IF exposed or concerned: Get medical advice/ attention. **P405:** Store locked up. **P501:** Dispose of contents/ container to an approved waste disposal plant.
2.3 Other hazards:	
Inhalation:	can cause respiratory irritation, dizziness, headaches, nausea, and, with prolonged exposure, may lead to central nervous system depression or liver damage.
Ingestion:	can lead to nausea, vomiting, abdominal pain, dizziness, and potentially more severe effects like liver and kidney damage or central nervous system depression.
Skin Contact:	can cause irritation, dryness, redness, and, with prolonged exposure, may lead to dermatitis or absorption of harmful amounts through the skin.
Eye contact:	can cause irritation, redness, watering, and a burning sensation, and may result in more severe damage with prolonged exposure.
Chronic Exposure:	Chronic exposure can lead to long-term health effects such as liver and kidney damage, nervous system disorders, and an increased risk of

	cancer due to its potential carcinogenic properties.
Aggravation of pre-existing conditions:	can aggravate pre-existing conditions such as respiratory disorders, liver or kidney disease, and neurological conditions like migraines or seizures.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 75-09-2 DICHLOROMETHANE
Identification number(s):	EC number: 200-838-9

SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	
After inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
After skin contact:	Remove contaminated clothing immediately .Wash with plenty of water. Consult a physician.
After eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.
After swallowing:	Rinse mouth with water. Immediately after ingestion Risk of aspiration! Keep airways free. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed:	Acute symptoms include dizziness, nausea, headaches, and respiratory irritation, while delayed effects can involve liver and kidney damage, neurological impairment, and an increased risk of cancer.
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media:	Carbon dioxide. Water spray. Alcohol-resistant foam.
5.2 Special hazards arising from the substance or mixture:	Carbon oxides. Hydrogen chloride gas.
5.3 Advice for firefighters:	Wear fully protective suit, safety glasses and respiratory device. Cool tanks/drums with water spray/remove them into safety.
5.4 further information:	no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Avoid dust accumulation. Seek medical attention.
6.2 Environmental precautions:	Do not enter this chemical into drains.
6.3 Methods and material for containment and cleaning up:	Take up spill into absorbent material, e.g.: sand, earth, vermiculite, powdered limestone.

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	Scoop absorbed substance into closing containers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:	For use in are with adequate ventilation. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material Do not use in confined spaces. Electrostatic discharge protection. Minimize dust generation and accumulation. Avoid ingestion and inhalation.
7.2 Conditions for safe storage, including any incompatibilities:	Store in original containers. Keep containers securely sealed Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Store in a dry and dark area. Keep away fro moisture.
Requirements to be met by storerooms and receptacles:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
7.3 Specific end uses:	no data available

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about design of technical facilities:	A system of local and general exhaust is recommended.
8.2 Exposure controls	
Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment:	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
General protective and hygienic measures:	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
	Respiratory protection: Required.
Protection of hands:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws. Wash and dry hands.
	Eye protection: Required
Protection of Body:	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information	
Appearance: Form:	Liquid
Colour:	Colourless
Odour:	Sweet, chloroform like odor
pH-value:	7
Melting point/Melting range:	-96.7°C

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Boiling point/Boiling range:	39.6°C
Flammability (solid, gaseous):	Non-Flammable
Ignition temperature:	516°C
Decomposition temperature:	Not determined
Self-igniting:	None
Flash point:	Not applicable
Danger of explosion:	None
Explosion limits: Lower:	12.5%
Explosion limits: Upper:	23.5%
Vapour pressure:	45.3 kPa at 20°C
Density at 20 °C:	1.33g/cm^3
Relative density:	1.33
Vapour density:	2.93
Evaporation rate:	9.0
Solubility in / Miscibility with-·water at 20 °C:	Slightly Soluble
Partition coefficient:(n-octanol/water)	1.25
Viscosity:	0.43 cP at 20°C

SECTION 10: Stability and reactivity

10.1 Reactivity	Stable under room temperatures
10.2 Chemical stability	This chemical is stable under storage conditions.
10.3 Possibility of hazardous reactions	Can undergo hazardous reactions upon thermal decomposition.
10.4 Conditions to avoid	High temperatures, sunlight, high pressure.
10.5 Incompatible materials	Strong acids, oxidizing agents, alkali metals, reactive metals
10.6 Hazardous decomposition products	Carbon monoxide, phosgene, hydrogen chloride, chlorinated compounds.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	**LD50** (Oral, Rat): 2.000 mg/kg **LD50** (Dermal, Rabbit): 2.000 mg/kg **LC50** (Inhalation Rat): 86 mg/l (4hr)
Skin corrosion/Irritation:	Can cause skin irritation
Serious eye damage/irritation:	Can cause eye irritation
Respiratory damage/irritation:	No data available
Ingestion:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	Suspected of causing cancer
Reproductive toxicity:	No data available
Specific target organ toxicity - single exposure:	May cause effect to central nervous system through inhalation
Specific target organ toxicity - repeated exposure:	No data available
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological information	
Biodegradability:	Readily Biodegradable

SECTION 12: Ecological information

12.1 Toxicity **Aquatic toxicity:**	LC50(fish): 193 mg/l (96hr) EC50(daphnia): 27 mg/l (48 hr) ErC50(algae): no data available
12.2 Persistence and degradability:	Readily Biodegradable
12.3 Bioaccumulative potential:	Low bioaccumulative
12.4 Mobility in soil:	High mobility
12.5 Other adverse effects:	No data available

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SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging Recommendation:	dispose of in accordance with local hazardous waste regulations
Recommended cleansing agents:	Activated charcoal, soapy water, sand, isopropyl alcohol.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	1593
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	DICHLOROMETHANE
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	6.1
14.4 Packing group · ADR, IMDG, IATA:	3
14.5 Environmental hazards:	Yes, harmful to aquatic life.
14.6 Special precautions for user:	Handle responsibly.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU	Directive 2012/18/EU, under that this substance is classified in listed substances as toxic substances.
Named dangerous substances:	This substance is listed in the annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has not been carried out.

SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and limitations of our knowledge, this document is only for reference. Users should make their

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