
1. PRODUCT AND COMPANY IDENTIFICATION

Product name	Dichloromethane
Synonyms	Methylene chloride
Grade	ACS, HPLC, Pesticide, Anapremium, Dehydrous
Company	Anaqua Chemicals Supply 1510 Eldridge Parkway, Suite 110-268 Houston, TX 77077, USA
Telephone	(281) 668-0032
Fax	(281) 668-0033

2. COMPOSITION/ INFORMATION ON INGREDIENTS

Formula	CH ₂ Cl ₂
CAS-No.	75-09-2
Index-No.	602-004-00-3
Ec-No.	200-838-9
Concentration	> 99 %

3. HAZARDS IDENTIFICATION**GHS Classification**

Carcinogenicity Category 2

According to European Directive 67/548/EEC as amended.

Limited evidence of a carcinogenic effect.

4. FIRST AID MEASURES

Inhalation	If breathed in, move into fresh air. If not breathing, give artificial respiration. Consult a physician.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Skin Contact	Immediately wash off with soap and plenty of water. Consult a physician.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes. Consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment for fire-fighters	Wear self contained breathing apparatus for fighting fire if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.
Environmental precautions	Do not let product enter drains.
Methods and materials for containment and cleaning up	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling	Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.
Storage	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Heat sensitive. Store under inert gas.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Occupational exposure controls

Engineering Measures	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
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Personal protective Equipment

Respiratory protection	Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)
Hand protection	Handle with gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374 derived from it.
Eye / face protection	Face shield and safety glasses
Skin and Body protection	Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid
Color	Colorless
pH	No available information
Melting point	-97 °C (-142.6 °F)
Boiling point	39.8 °C (103.64 °F)
Flash point	No available information
Ignition temperature	556.1 °C
Lower explosion limit	12 % (V)
Upper explosion limit	19 % (V)
Vapor pressure	470.8 hPa at 20.0 °C (68.0 °F) 1,687.3 hPa at 55 °C (131 °F) 57.99 hPa at 25 °C (77 °F)
Density	1.325 g/mL at 25 °C (77 °F)

Water solubility	Slightly soluble
Partition coefficient: n-octanol/ water	log Pow: 1.25
Molecular weight	84.93

10. STABILITY AND REACTIVITY

Storage stability	Stable under recommended storage conditions.
Conditions to avoid	Heat, flames and sparks. Exposure to sunlight.
Materials to avoid	Alkali metals, Aluminum, Strong oxidizing agents, Bases, Amines, Magnesium, Strong acids and strong bases, Vinyl compounds
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas

11. TOXICOLOGICAL INFORMATION

Acute toxicity	LD50 Oral 1,600 mg/kg (Rat) Remarks: Behavioral:Ataxia LC50 Inhalation 52,000 mg/m ³ (Rat)
Skin irritation	Skin irritation (Rabbit) 24 h
Eyes irritation	Mild eyes irritation (Rabbit) 24 h
Sensitization	No available information
Germ cell mutagenicity	Genotoxicity in vivo - rat - Oral DNA damage
Specific target organ toxicity – single exposure (GHS)	No available information
Specific target organ toxicity – repeated exposure (GHS)	No available information
Carcinogenicity	Carcinogenicity - rat – Inhalation Tumorigenic: Carcinogenic by RTECS criteria. Endocrine:Tumors. This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification. Limited evidence of carcinogenicity in animal IARC: 2B – Group 2B: Possibly carcinogenic to humans (Methylene chloride)
Reproductive toxicity	No available information
Aspiration hazard	No available information
Potential health effects	Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation
Signs and Symptoms of Exposure	Dichloromethane is metabolized in the body producing carbon monoxide which increases and sustains carboxyhemoglobin levels in the blood, reducing the oxygen-carrying capacity of the blood., Acts as a simple asphyxiant by displacing air., anesthetic effects, Difficulty in breathing, Headache, Dizziness, Prolonged or repeated contact with skin may cause: defatting, Dermatitis. Contact with eyes can cause:, Redness, Blurred

vision, Provokes tears. Effects due to ingestion may include:
Gastrointestinal discomfort, Central nervous system depression,
Paresthesia. Drowsiness, Convulsions, Conjunctivitis., Pulmonary edema.
Effects may be delayed. Irregular breathing. Stomach/intestinal disorders,
Nausea, Vomiting, Increased liver enzymes. Heavy or prolonged skin
exposure may result in absorption of harmful amounts. Abdominal pain
RTECS: PA8050000

Additional Information

12. ECOLOGICAL INFORMATION

Ecotoxicity

Persistence and degradability	No available information
Toxicity to fish	LC50 193.00 mg/l (Pimephales promelas (fathead minnow)) 96 h NOEC 130 mg/l (Cyprinodon variegatus (sheepshead minnow)) 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 1,682.00 mg/l (Daphnia magna (Water flea)) 48 h
Bioaccumulative potential	No available information
Results of PBT and vPvB assessment	No available information
Mobility	No available information
Other adverse effects	No available information

13. DISPOSAL CONSIDERATIONS

Product	Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Contaminated packaging	Dispose of as unused product.

14. TRANSPORT INFORMATION

IATA

UN-Number: 1593 Class: 6.1 Packing group: III
Proper shipping name: Dichloromethane

IMDG

UN-Number: 1593 Class: 6.1 Packing group: III
Proper shipping name: Dichloromethane
EMS-No. F-A, S-A

DOT (US)

UN-Number: 1593 Class: 6.1 Packing group: III
Proper shipping name: Dichloromethane
Marine pollution: No

15. REGULATORY INFORMATION

Hazard statements

H351: Suspected of causing cancer.

Precautionary statements

P281: Use personal protective equipment as required.

GHS-Labeling

Pictogram



Signal word *Warning*

Labeling according to EC Directive

Symbol(s): Xn- Harmful

R-phrase(s): 40

Limited evidence of a carcinogenic effect.

S-phrase(s): 23-24/25-36/37

Do not breathe gas/fumes/vapour/spray. Avoid contact with skin and eyes. Wear suitable protective clothing and gloves

16. OTHER INFORMATION

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