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**TECHNO PHARMCHEM**

An ISO 9001 : 2008 Certified Company

Registered Off. : 101-A, Deep Enclave, Pocket 'D', Ashok Vihar, Phase-III, Delhi-110 052 (India)  
Corporate Off. : 152, Vardhman City Centre, Near Shakti Nagar Underbridge, Delhi-110052 (India)  
Works : Plot No.1022, Modern Industrial Estate, Bahadurgarh-124507, Haryana (India)  
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## DICHLOROMETHANE

### 1. Product Identification

Synonyms: Methylene chloride ; Methylene dichloride; Methylene bichloride;

CAS No.: 75-09-2

Molecular Weight: 84.93

Chemical Formula: CH<sub>2</sub>Cl<sub>2</sub>

Product Code : 63002 , 31087 , 42009

### 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
Methylene Chloride	75-09-2	99 - 100%

### 3. Hazards Identification

Potential Health Effects

Inhalation: Causes irritation to respiratory tract. Continued exposure may cause increased light headedness, staggering, unconsciousness.

Ingestion: May cause irritation of the gastrointestinal tract with vomiting. If vomiting results in aspiration, chemical pneumonia could follow. Absorption through gastrointestinal tract may produce symptoms of central nervous system depression ranging from light headedness to unconsciousness.

Skin Contact: Causes irritation, redness and pain. Prolonged contact can cause burns. Liquid degrades the skin. May be absorbed through skin.

Eye Contact: Vapors can cause eye irritation. Contact can produce pain, inflammation and temporal eye damage.

Chronic Exposure: Can cause headache, mental confusion, depression, liver effects, kidney effects, bronchitis, loss of appetite, nausea, lack of balance, and visual disturbances. Can cause dermatitis upon prolonged skin contact.

Aggravation of Pre-existing Conditions:

Persons with pre-existing skin disorders, eye problems, impaired liver, kidney, respiratory or cardiovascular function may be more susceptible to the effects of this substance.

### 4. First Aid Measures

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: If swallowed, do not induce vomiting. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Skin Contact: Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.



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## 5. Fire Fighting Measures

Suitable extinguishing media

: Foam. Dry powder. Carbon dioxide. Water spray. Sand

Unsuitable extinguishing media

: Do not use a heavy water stream.

Surrounding fires

: Use water spray or fog for cooling exposed containers.

Protection against fire

: Do not enter fire area without proper protective equipment, including respiratory protection.

Special procedures

: Exercise caution when fighting any chemical fire.

Avoid fire-fighting water to enter environment.

## 6. Accidental Release Measures

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust.

## 7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from any source of heat or ignition. Outside or detached storage is recommended. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); This material may corrode plastic and rubber.

## 8. Exposure Controls/Personal Protection

**Ventilation System:** A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

**Personal Respirators (NIOSH Approved):** If the exposure limit is exceeded, wear a supplied air, full facepiece respirator, airtight hood, or full-face piece self-contained breathing apparatus.

**Skin Protection:** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Neoprene is a recommended material for personal protective equipment. Natural rubber and polyvinyl chloride are not recommended materials for personal protective equipment.

**Eye Protection:** Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

## 9. Physical and Chemical Properties

**Appearance:** Clear, colorless liquid.

**Odor:** Chloroform-like odor.

**Solubility:** 1.32 gm/100 gm water @ 20C.

**Specific Gravity:** 1.325 @ 20C

**pH:** No information found.

**% Volatiles by volume @ 21C (70F):** 100

**Boiling Point:** 39.8C (104F)

**Melting Point:** -97C (-143F)

**Vapor Density (Air=1):** 2.9

**Vapor Pressure (mm Hg):** 400 @ 24C (75F)

**Evaporation Rate (BuAc=1):** 27.5



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## 10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: Carbon dioxide and carbon monoxide may form when heated to decomposition.

Hazardous Polymerization: Will not occur.

Incompatibilities: Strong oxidizers, strong caustics, plastics, rubber, nitric acid, water + heat, and chemically active metals, such as aluminum and magnesium powder, sodium, potassium, and lithium.

Conditions to Avoid: Moisture, heat, flames, ignition sources and incompatibles.

## 11. Toxicological Information

Toxicological Data:

Dichloromethane: Oral rat LD50: 1600 mg/kg; inhalation rat LC50: 52 gm/m<sup>3</sup>; investigated as a tumorigen, mutagen, reproductive effector.

-----\Cancer Lists\-----

---NTP Carcinogen---

Ingredient	Known	Anticipated	IARC Category
Methylene Chloride (75-09-2)	No	Yes	2B

## 12. Ecological Information

Environmental Fate:

When released into the soil, this material may leach into groundwater. When released into the soil, this material is expected to quickly evaporate. When released into water, this material may biodegrade to a moderate extent. When released to water, this material is expected to quickly evaporate.

Environmental Toxicity

The LC50/96-hour values for fish are over 100 mg/l. This material is not expected to be toxic to aquatic life.

## 13. Disposal Considerations

Dispose of container and unused contents in accordance with federal, state and local requirements.

## 14. Transport Information

Proper Shipping Name: Dichloromethane

Hazard Class: 6.1

UN/NA: UN1593

Packing Group: III

## 15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture : Ensure all national/local regulations are observed.

Chemical Safety Assessment : It has not been carried out.

## 16. Other information

Product Use : Laboratory Reagent for Educational & Research Purposes