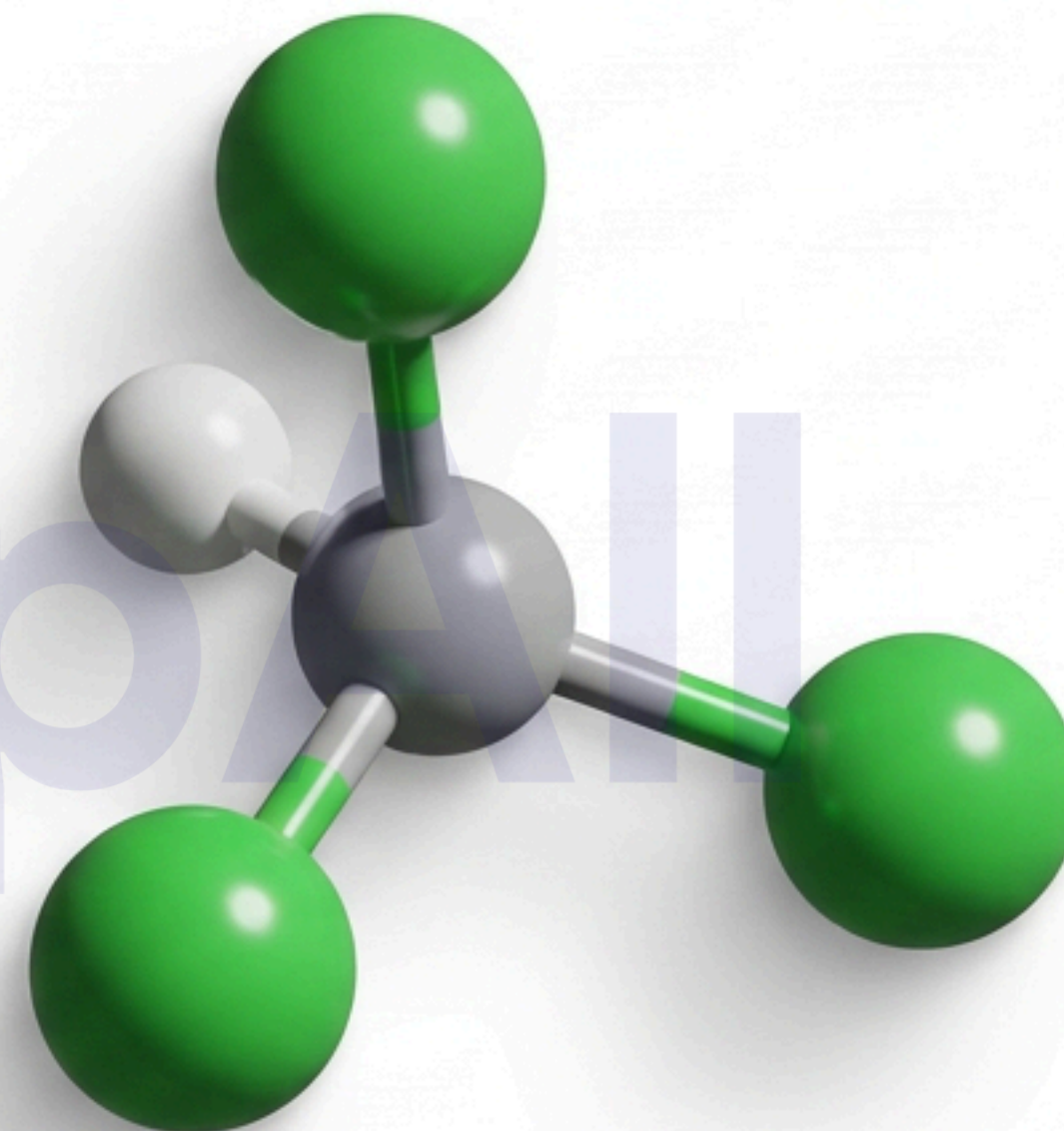
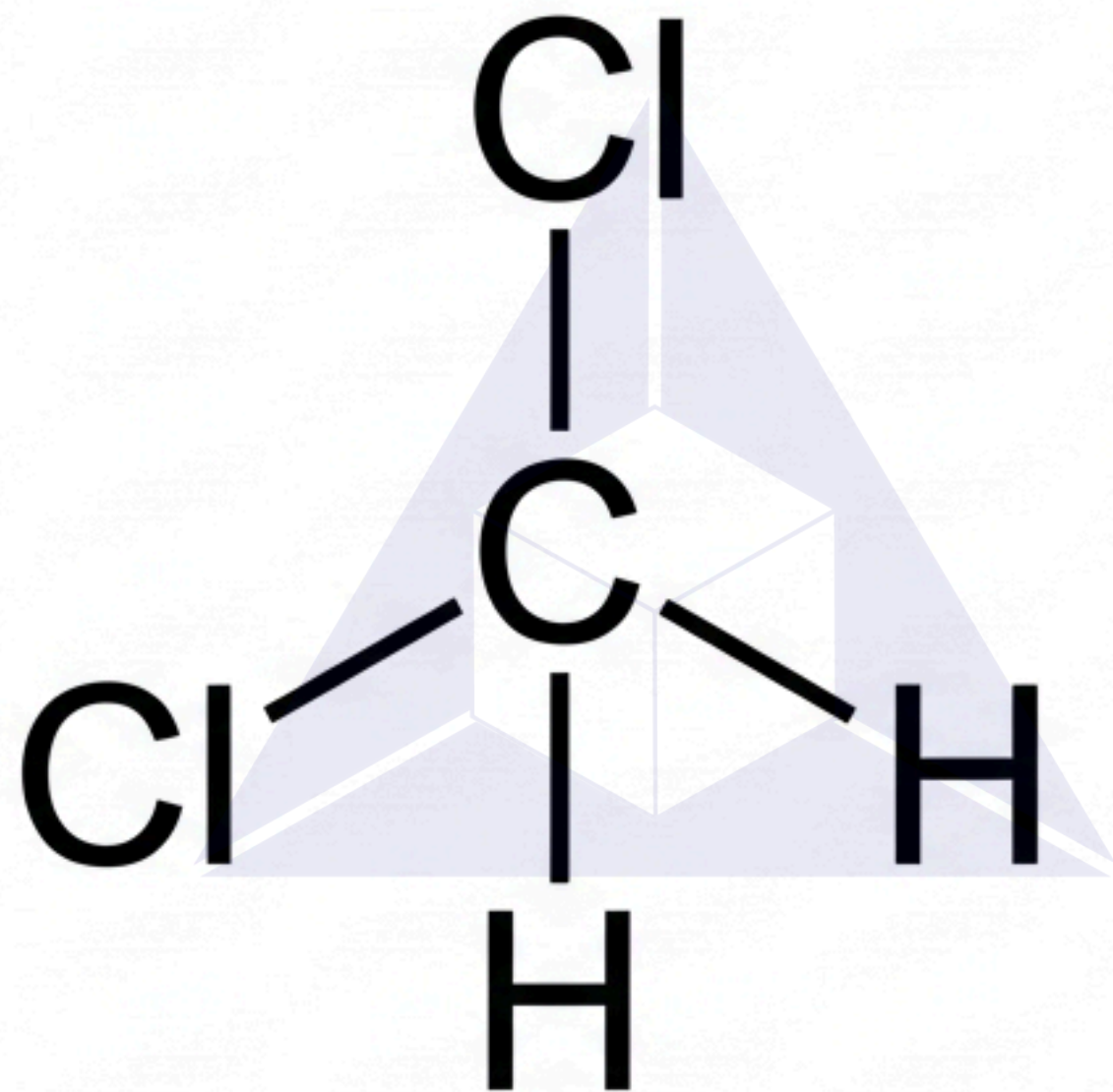


POLYHALOGEN COMPOUNDS DOSSIER

DICHLOROME THANE: CH_2Cl_2

Properties, Applications,
and Health Hazards





Chemical Identity

IUPAC Name: Dichloromethane

Common Name: Methylene Chloride

[Polyhalogen
Compound]

[gem-dihalide
structure]

Industrial Applications



Paint Remover

Acts as a powerful solvent to efficiently strip paints and protective coatings from surfaces.



Aerosol Propellant

Utilized chemically to propel contents and active ingredients from aerosol canisters.



Process Solvent

Crucial processing solvent used extensively in the manufacturing of pharmaceutical drugs.



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$$E=mc^2$$



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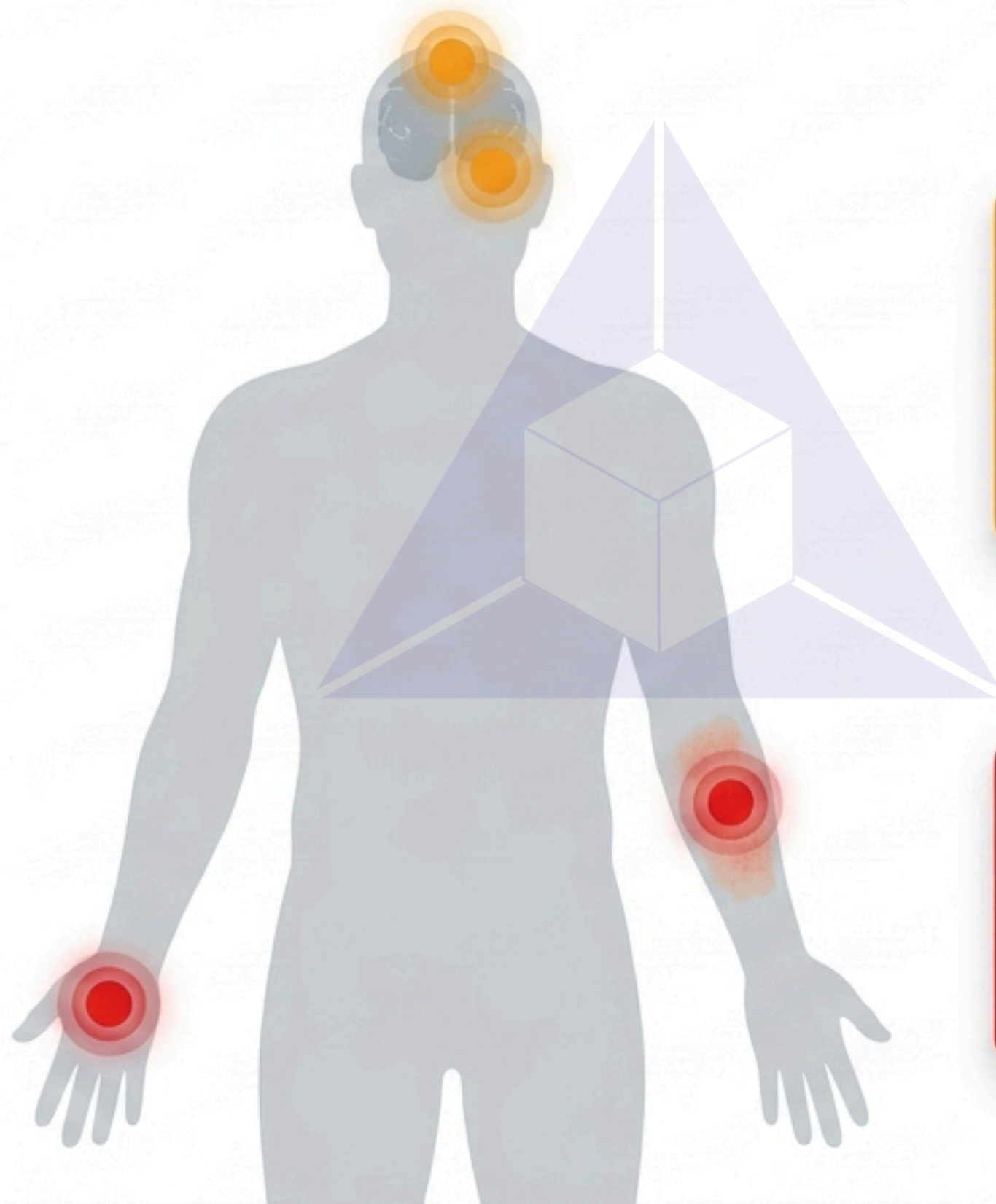
Specialized Utility: Metal Cleaning



[Degreasing & Finishing]

Beyond standard solvent applications, methylene chloride is heavily relied upon in heavy industry as a highly effective metal cleaning and finishing solvent. It strips away industrial greases and impurities, perfectly preparing metal components for final assembly or coating.

Toxicity & Health Hazards



Inhalation (CNS Effects)



Lower Levels: Slightly impaired hearing and vision.



Higher Levels: Dizziness, nausea, tingling, and numbness in fingers and toes (Central Nervous System depression).

Direct Contact



Skin Exposure: Intense burning and mild redness upon direct exposure.



Eye Exposure: Severe damage; can burn the cornea upon direct contact.

Exam Summary: Dichloromethane

[Key Concept Synthesis]

Formulas & Names

- Formula: CH_2Cl_2
- IUPAC: Dichloromethane
- Common: Methylene Chloride

Major Uses

- Solvent (Paint remover, drug manufacturing, metal cleaning/finishing).
- Aerosol propellant.

Inhalation Hazards

- Target: Central Nervous System (CNS).
- Low exposure = Hearing/vision impairment.
- High exposure = Dizziness, nausea, numbness.

Contact Hazards

- Skin = Intense burning, redness.
- Eyes = Cornea burns.



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