NEWAY SINOPHC TECH. LIMITED
ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
Email:marketing01@newayphc.com； Phone:+86-021-50350029 https://www.newayphc.com

Technical Data Sheet (TDS)

1. Product Overview

- Product Name: Methylene Chloride (Dichloromethane)
- English Name: Methylene Chloride; Dichloromethane
- CAS Number: 75-09-2
- Formula: CH_2Cl_2
- Molecular Weight: 84.93 g/mol
- Product Characteristics: Colorless clear liquid with a mild chloroform-like odor. High-purity halogenated hydrocarbon solvent with excellent solubility for organic and inorganic compounds. Chemically stable under normal conditions, low flammability, and moderately toxic.

2. Technical Specifications

Item	Specification
Appearance	Colorless clear liquid
Purity (GC)	≥ 99.5%
Water Content	≤ 0.05%
Density (20℃)	1.324-1.328 g/cm³
Boiling Range	39.0-41.0℃
Flash Point (Closed Cup)	None (Non-flammable under normal conditions)
Viscosity (20℃)	0.44 mPa·s
Non-Volatile Residue	≤ 0.005%
Heavy Metals (Pb)	≤ 0.5 ppm
Heavy Metals (As)	≤ 0.1 ppm
Total Chloride (as Cl^-)	≤ 10 ppm

3. Product Advantages

1. High Purity: Low impurity content ensures consistent performance in precision processes.
2. Superior Solvency: Dissolves resins, oils, waxes, and polymers, ideal for extraction and cleaning.
3. Low Flammability: Safer than aliphatic/aromatic solvents for high-risk environments.
4. Controlled Volatility: Fast evaporation rate for efficient manufacturing and coating applications.

4. Application Fields

- Chemical Synthesis: Intermediate for pharmaceuticals, agrochemicals, and organic compounds.
- Industrial Solvent: Coatings, adhesives, inks, paint strippers, and plastic processing.
- Laboratory Research: Analytical reagent, extraction solvent, and reaction medium.
- Industrial Cleaning: Precision metal parts, electronic components, and optical equipment cleaning.

5. Usage Methods

- Dosage: Adjust according to application (30-100% concentration; dilute with compatible solvents if needed).
- Application: Use in closed systems for synthesis; employ immersion or spray for cleaning (ensure ventilation).

- Optimal Conditions: Operate at 15-25℃ in well-ventilated areas; avoid high temperatures (> 60℃).

6. Packaging & Storage

- Packaging Specifications: 5L HDPE cans, 20L steel drums, 200L steel drums, 1000L IBC totes (UN-approved).
- Storage Conditions: Store in cool, dry, well-ventilated warehouses (temperature ≤ 30℃). Keep sealed, away from heat, oxidizing agents, and strong bases.
- Shelf Life: 12 months (unopened, under specified storage conditions).
- Transportation: Classified as toxic and hazardous goods; transport per relevant regulations.

7. Safety & Protection

- Moderately toxic: Avoid inhalation, skin contact, or ingestion; ensure local exhaust ventilation.
- Wear full PPE: Chemical safety goggles, nitrile rubber gloves, protective clothing, and organic vapor respirator.
- Do not mix with strong bases or oxidizers; avoid high temperatures to prevent decomposition.
- In case of exposure, follow first aid measures in MSDS and seek medical attention promptly.

8. Quality Assurance

- Manufactured under ISO 9001 quality management system.
- Each batch is accompanied by a COA for compliance verification.
- Provide technical support for safe application and process optimization.