Richest Group
No. 999, Jiangyue Rd, Minhang, Shanghai 201114, China
Tel: 0086 21 5017 5386
E-mail: inquiry@richest-group.com
Web: www.richest-group.com

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Product: Methylene Chloride (Dichloromethane)	**Revision date:** 2026-10-27	**Version:** 1.0	**Brand:** Richest

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

Product name	Methylene Chloride (Dichloromethane)
Synonyms	Dichloromethane; DCM; MC
CAS No.	75-09-2
EC No.	200-838-9
Molecular formula	CH2Cl2
Molecular weight	84.93 g/mol
Relevant identified uses	Industrial solvent; paint remover; extraction solvent; metal cleaning and degreasing; pharmaceutical intermediate
Uses advised against	None
Company	Richest Group Ltd.
Address	No. 999, Jiangyue Rd, Minhang, Shanghai 201114, China
Telephone	+86 21 5017 5386
WhatsApp	+86 13472638548
E-mail	inquiry@richest-group.com
Website	www.richest-group.com
Emergency telephone number	+86 13472638548

SECTION 2: Hazards identification

GHS Classification	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; Carc. 2
Pictogram(s)	GHS07 (Exclamation mark), GHS08 (Health hazard)
Signal word	Warning
Hazard statement(s)	H315 Causes skin irritation H319 Causes serious eye irritation

	H336 May cause drowsiness or dizziness H351 Suspected of causing cancer
Precautionary statement(s)	P261 Avoid breathing mist/vapors P264 Wash hands thoroughly after handling P280 Wear protective gloves and eye protection P302+P352 IF ON SKIN: Wash with plenty of water P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes P308+P313 IF exposed or concerned: Get medical advice
Other hazards	None known.

SECTION 3: Composition/information on ingredients

Component	Dichloromethane
CAS No.	75-09-2
EC No.	200-838-9
Classification	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; Carc. 2
Concentration (%)	≤100 %

SECTION 4: First aid measures

If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most important symptoms and effects	May cause drowsiness or dizziness; skin and eye irritation.
Indication of any immediate medical attention	Treat symptomatically.

SECTION 5: Firefighting measures

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	High-pressure water jet.
Special hazards arising from the chemical	Carbon oxides, hydrogen chloride gas, phosgene.
Advice for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Avoid breathing vapors. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental precautions	Prevent further leakage or spillage. Do not let product enter drains or surface water.
Methods and materials for containment and cleaning up	Contain and collect spillage with non-combustible absorbent material (sand, earth, vermiculite). Place in container for disposal according to local regulations.

SECTION 7: Handling and storage

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition.
Conditions for safe storage, including any incompatibilities	Keep container tightly closed in a cool, dry and well-ventilated place. Keep away from heat and direct sunlight.

SECTION 8: Exposure controls/personal protection

Occupational exposure limit values	TWA: 50 ppm (ACGIH); consult local regulations.
Biological limit values	ACGIH BEI: Dichloromethane in urine, 0.3 mg/L (end of shift).
Appropriate engineering controls	Ensure adequate ventilation, especially in confined areas. Eye wash stations and safety showers recommended.
Eye/face protection	Tightly fitting safety goggles.
Skin protection	Chemical-resistant gloves.
Body protection	Complete suit protecting against chemicals.
Respiratory protection	Wear suitable respirator when vapors/mists are generated.
Thermal hazards	No specific thermal hazards under normal conditions of use.

SECTION 9: Physical and chemical properties

Physical state	Clear liquid
Colour	Colorless
Odour	Characteristic, sweet
Melting point / freezing point	-95 deg C
Boiling point or initial boiling point and boiling range	39.75 °C
Flammability	Not classified as flammable (GHS); combustible liquid - will not form explosive mixtures with air at ordinary temperatures
Lower and upper explosion limit / flammability limit	LEL: 12-13 vol%; UEL: 19-23 vol% (in air)
Flash point	Not applicable
Auto-ignition temperature	556 deg C (also reported 605 deg C)
Decomposition temperature	No data available
pH	Not applicable
Kinematic viscosity	0.32 mm2/s at 20 deg C
Solubility	Slightly soluble in water; miscible with most organic solvents
Partition coefficient n-octanol/water	log Kow = 1.25
Vapour pressure	435 mmHg at 25 deg C
Density and/or relative density	1.31 - 1.33 g/cm3 (20 °C)
Relative vapour density	2.93 (air = 1)
Particle characteristics	Not applicable (liquid)

SECTION 10: Stability and reactivity

Reactivity	Stable under recommended storage conditions. Subject to slow hydrolysis accelerated by light. Decomposes on contact with hot surfaces and open flame, yielding toxic fumes (phosgene, hydrogen chloride).
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Decomposes on heating, on burning or on contact with hot surfaces, producing toxic and corrosive fumes including hydrogen chloride, phosgene and carbon monoxide. Reacts violently with strong oxidants, strong bases and metals such as aluminium powder. A harmful contamination of the air can be reached very quickly on evaporation at 20 deg C.

Conditions to avoid	Heat, flames and sparks; direct sunlight.
Incompatible materials	Strong oxidizing agents, alkali metals, aluminum.
Hazardous decomposition products	Hydrogen chloride gas, phosgene, carbon oxides.

SECTION 11: Toxicological information

Acute toxicity - Oral / Inhalation / Dermal	LD50 Oral - Rat: 1,600 mg/kg
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitization	Not classified (based on available data)
Germ cell mutagenicity	Germ cell mutagenicity Category 2 (H341) - minority notification (22.9%) in ECHA C&L Inventory
Carcinogenicity	Suspected of causing cancer (H351).
Reproductive toxicity	Not classified (based on available data)
STOT - single exposure	May cause drowsiness or dizziness (H336).
STOT - repeated exposure	STOT repeated exposure Category 2 (H373) - minority notification (12.7%) in ECHA C&L Inventory
Aspiration hazard	Not classified (based on available data)

SECTION 12: Ecological information

Toxicity to fish / daphnia / algae	LC50 (Daphnia magna, 48h): 220 mg/L; LC50 (Palaemonetes pugio, 48h, saltwater): 108.5 mg/L
Persistence and degradability	Reported to completely biodegrade under aerobic conditions with sewage seed or activated sludge in 6 hours to 7 days
Bioaccumulative potential	Low to moderate potential (BCF 2.0-40 in carp; log Kow = 1.25)
Mobility in soil	Experimental Koc 8-48; very high mobility in soil
Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: Disposal considerations

Product disposal methods	Offer surplus and non-recyclable product to a licensed disposal company. Dispose of in accordance with local regulations.

Contaminated packaging	Dispose of as unused product.

SECTION 14: Transport information

UN Number (ADR/RID, IMDG, IATA)	1593
UN Proper Shipping Name	DICHLOROMETHANE
Transport hazard class(es)	6.1
Packing group	III
Environmental hazards (Marine pollutant)	No
Special precautions for user	Keep containers upright, closed and secured during transport.

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product	EINECS (EU): Listed (200-838-9); TSCA (USA): Listed; IECSC (China): Listed; Catalog of Hazardous Chemicals (China) 2015: Listed

SECTION 16: Other information

Full text of H-Statements	H315 Causes skin irritation H319 Causes serious eye irritation H336 May cause drowsiness or dizziness H351 Suspected of causing cancer
Revision date	2026-10-27
Version	1.0

Abbreviations and acronyms: CAS: Chemical Abstracts Service; EC: European Commission; EINECS: European Inventory of Existing Commercial Chemical Substances; ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road; RID: Regulation concerning the International Carriage of Dangerous Goods by Rail; IMDG: International Maritime Dangerous Goods; IATA: International Air Transport Association; TWA: Time Weighted Average; STEL: Short Term Exposure Limit; LD50: Lethal Dose 50%; LC50: Lethal Concentration 50%; EC50: Effective Concentration 50%; PBT: Persistent, Bioaccumulative and Toxic; vPvB: very Persistent and very Bioaccumulative; SDS: Safety Data Sheet.

References: ECHA - European Chemicals Agency, https://echa.europa.eu/; IPCS - International Chemical Safety Cards (ICSC), http://www.ilo.org/; HSDB - Hazardous Substances Data Bank; eChemPortal - OECD Global Portal to Information on Chemical Substances; ERG - Emergency Response Guidebook by U.S. DOT.

Disclaimer: The information in this SDS is only applicable to the specified product and is provided in good faith. It is based on the knowledge available to Richest Group Ltd. at the date of issue and is intended to describe the product for the purposes of health,

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