TIANJIN YUANLONG CHEMICAL INDUSTRY CO., LIMITED
Address: Room 605, Kangning Tower B, Xikang Ave, Heping District, Tianjin, China.
Email: info@yuanlongchem.com Tel: +86-22-23528561 Web: www. yuanlongchem.com

Safety Data Sheet

Methylene Chloride

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

1.1 Product identifier

Substance name:	Methylene Chloride
CAS No.:	75-09-2
EC No.:	200-838-9

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses:	Widely used in the manufacture of safety film film, polycarbonate, the rest is used as paint solvent, metal degreasing agent, gas smoke spray agent, polyurethane foaming agent, mold release agent, paint removal agent.
Uses advised against:	Not available.

1.3 Details of the supplier of the SDS

Company name (Manufacturer):	Tianjin Yuanlong Chemical Industry Co., Limited
Address:	Room 605, Kangning Tower B, Xikang Ave., Heping District, Tianjin, China
Postcode:	300041
E-mail:	info@yuanlongchem.com
Telephone:	+86-22-23528561
Fax:	+86-22-23523959
Emergency telephone number	+86-22-23528561

Section 2: Hazards identification

2.1 Substance information

Classification according to Regulation (EC) No 1272/2008[CLP]

Classification	Classification procedure
Skin irritation undetected	
Eye Irritation undetected	

Classification according to EU Directive 67/548/EEC or 1999/45/EC

Additional information

Full text of R-phrase(s) and H-statement(s): see section 16.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Product identifier:

Hazard pictogram(s):

Signal word: WARNING

Hazard statements: H351: a potential carcinogen

Precautionary statements:

Prevention: Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Wear eye/face protection
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area

Response: IF exposed or concerned: Get medical attention/advice

Storage: Store locked up
Store in a well-ventilated place. Keep container tightly closed

Disposal: Dispose of contents/container to an approved waste disposal plant

Supplemental Hazard information (EUH):

No information available.

2.3 Other hazards

No information available.

Section 3: Composition/information on ingredients

3.1 Substance information

Substance name	Synonym	CAS No.	EC No.	Molecular formula	Concentration
Methylene Chloride	Dichloromethane	75-09-2	200-838-9	CH_2CL_2	99.99%

Remark: The rest unspecified ingredients are impurities, and they are not hazard.

Section 4: First aid measures

4.1 Description of first aid measures

General notes: In all cases of doubt, or when symptoms persist, seek medical attention.

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

Skin contact:

In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

Serious Inhalation:

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion:

Not available.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: Corrosive. Burning sensation. Sore throat. Cough. Laboured breathing. Shortness of breath. Symptoms may be delayed
Skin contact: Corrosive. Redness. Pain. Serious skin burns. Blisters.
Eyes contact: Corrosive. Redness. Pain. Blurred vision. Severe deep burns.
Ingestion: Corrosive. Burning sensation. Abdominal pain. Shock or collapse.

Section 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media:	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.
Unsuitable extinguishing media:	Not available.

5.2 Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

5.3 Advice for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Ensure adequate ventilation.

6.2 Environmental precautions

Should not be released into the environment.

6.3 Methods and material for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

Section 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapours.

7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed. Keep in original container. Keep away from heat, sparks and open flame. Unsuitable containers: copper, zinc, aluminium, copper alloy, zinc alloy, aluminium alloy.

7.3 Specific end use(s)

Not available.

Section 8 : Exposure controls/personal protection

8.1 Engineering controls

Appropriate engineering controls:

Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment:

Eye and face protection:	Wear approved safety goggles.
Skin protection:	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory protection:	Use Ventilation, local exhaust, or breathing protection.
Thermal hazards:	Not available.

Environmental exposure controls:

Do not allow material to be released to the environment without the proper governmental permits.

Industrial hygiene:

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Liquid
Colour:	Colorless
Odour:	sweet
pH:	No information available
Melting point:	-97 ° C
Boiling point:	39 ° C
Density:	2.93 (Air = 1.0)
Vapour pressure:	350 mbar @ 20° C
Partition coefficient (n -octanol/water):	No data available
Solubility(ies):	No information available
Flash point:	Not applicable
Auto-ignition temperature:	Not applicable
Flammability:	No data available.
Decomposition temperature:	Not determined
Explosive properties:	Lower explosion limit : not applicable Upper explosion limit : not applicable
Oxidising properties:	No data available.
Evaporation rate :	No data available.
Viscosity:	0.42 mPas @ 25° C

9.2 Other information

No data available.

Section 10: Stability and reactivity

10.1 Reactivity

None known, based on information available

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

Forms a detonable mixture with nitric acid.

10.4 Conditions to avoid

Excess heat. Protect from direct sunlight.

10.5 Incompatible materials

Strong oxidizing agents, Strong acids, Amines

10.6 Hazardous decomposition products

Carbon monoxide (CO), Carbon dioxide (CO_2), Phosgene, Hydrogen chloride gas

Section 11: Toxicological information

11.1 Toxicokinetics, metabolism and distribution

Not available.

11.2 Information on toxicological effects

Acute toxicity:

Acute Oral toxicity:	No data available;
Acute Inhalation toxicity:	No data available;
Acute Dermal toxicity:	No data available;

Skin corrosion/irritation:

Prolonged contact may cause redness and irritation. Causes burns.

Serious eye damage/irritation:

Extreme irritation of eyes and mucous membranes, including burning and tearing. Risk of serious damage to eyes.

Respiratory or skin sensitization:

Vapours may irritate the respiratory system and cause coughing, asthmatic breathing and breathlessness.

CMR effects (Carcinogenicity, Mutagenicity and Toxicity for Reproduction):

No data available.

STOT-single exposure and repeated exposure:

No data available.

Additional information:

Carcinogen Category 3.

Section 12: Ecological information

12.1 Toxicity

Acute fish toxicity:	LC 50, 96 Hrs, FISH mg/l 224
Acute daphnia toxicity:	EC 50, 48 Hrs, DAPHNIA, mg/l 480
Acute bacteria toxicity:	No data available;

12.2 Persistence and degradability

Persistence is unlikely based on information available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

Section 13: Disposal considerations

13.1 Waste treatment methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Section 14: Transport information

14.1 Land transport (ADR/RID/GGVSE)

UN-No.:	1593
Official transport designation:	DICHLOROMETHANE
Class:	6.1
Classification Code:	
Packing group:	III
Hazard label:	6.1
Tunnel restriction code:	

14.2 Sea transport (IMDG-Code/GGVSee)

Proper Shipping Name:	Dichloromethane
Class:	6.1
UN-No.:	1593
Packing group:	III
EmS No.:	F-A, S-A
Marine pollutant:	No

14.3 Air transport (ICAO-TI/IATA-DGR)

Proper Shipping Name:	Dichloromethane
Class:	6.1
UN-No.:	1593
Packing group:	III

14.4 Additional information

No data available.

Section 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulation:	
Authorisations:	No information available.
Restrictions on use:	No information available.
EINECS:	This substance is listed in the inventory.
DSD (67/548/EEC):	This substance is listed in the Annex I.

Other chemical regulation:

USA - TSCA:	This substance is listed in the inventory.
Canada - DSL:	This substance is listed in the inventory.
Australia - AICS:	This substance is listed in the inventory.
Korea - ECL:	This substance is listed in the inventory.
Japan - ENCS:	This substance is listed in the inventory.
Philippiens-PICCS	This substance is listed in the inventory.
New Zealand:	This substance is listed in the inventory.
Israel	This substance is listed in the inventory.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

Section 16: Other information

16.1 Revision Information:

Date of the previous revision: Not applicable.
Date of this revision: 1/1/2024
Revision summary: The first new SDS

16.2 Abbreviations and acronyms

CLP:	EU regulation (EC) No 1272/2008 on classification, labelling and packaging of chemical substances and mixtures.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
EINECS:	European Inventory of Existing Commercial Chemical Substances.
RID:	European Rail Transport.
IMDG:	International Maritime Code for Dangerous Goods.
IATA:	International Air Transport Association.
OSHA:	The United States Occupational Safety and Health Administration.
TSCA:	Toxic Substances Control Act, The American chemical inventory.
DSD:	Dangerous Substance Directive (67/548/EEC).
DSL:	Domestic Substances List, The Canadian chemical inventory.
AICS:	The Australian Inventory of Chemical Substances.

ECL: Existing Chemicals List, the Korean chemical inventory.

ENCS: Japanese Existing and New Chemical Substances.

PICCS Philippine Inventory of Chemicals and Chemical Substances

16.3 Key literature references and sources for data

ESIS IUCLID Dataset: European chemical Substances Information System.
HSDB: Hazardous Substances Data Bank.
ICSC: International Chemical Safety Cards.

16.4 Relevant R-phrases and H-statements

R-phrases (code and full text):

R35 Causes severe burns.

H-statements (code and full text):

H314 Causes severe skin burns and eye damage.

16.5 Training advice

No data available.

16.6 Declare to reader

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