

### 1. Identification of the substance/preparation and of the company/undertaking

#### Identification of the product

Dichloromethane

#### Manufacturer/supplier identification

Company: Guangdong Guanghua Sci-Tech Co.,Ltd

Address: No.295 Daxue Road,Shantou

PostCode:515000

E-mail: [export@ghotech.com](mailto:export@ghotech.com)

Emergency telephone No.: +86-754-82515813.

Fax No.: +86-754-88221999

### 2. Hazards identification

#### Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Acute toxicity, Oral (Category 4)

Skin corrosion/irritation (Category 2)

Serious eye damage/eye irritation (Category 2A)

Carcinogenicity (Category 2)

Specific target organ toxicity - single exposure (Category 1)

Specific target organ toxicity - single exposure (Category 3), Narcotic effects

Specific target organ toxicity - repeated exposure (Category 1)

Acute aquatic toxicity (Category 3)

#### Label elements

Pictogram



Signal word Danger

#### Hazard statement(s)

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H370 Causes damage to organs.

H372 Causes damage to organs through prolonged or repeated exposure.

H402 Harmful to aquatic life.

#### Precautionary statement(s)

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

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P302 + P352	IF ON SKIN: Wash with plenty of water.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P311	IF exposed or concerned: Call a POISON CENTER/ doctor.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

Supplemental Hazard Statements  
none

### 3. Composition/information on ingredients

#### *Synonyms*

Dichloromethane

CAS-No.: 75-09-2

*M*: 84.93 g/mol

Molecular formula: CH<sub>2</sub>Cl<sub>2</sub>

### 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**

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**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 5. Fire-fighting measures

#### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### **Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

### 6. Accidental release measures

#### **Personal precautions**

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

#### **Methods and materials for containment and cleaning up**

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

### 7. Handling and storage

**Precautions for safe handling**

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

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

**Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**8. Exposure controls and personal protection****Appropriate engineering controls**

General industrial hygiene practice.

**Personal protective equipment****Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

**9. Physical and chemical properties**

**Form:** liquid

**Colour:** colourless

**Odour:** not available

**pH value:** not available

**Melting point:** -95°C

**Boiling point:** 40 °C

**Ignition temperature:** not available

**Flash point:** not available

**Autoignition temperature:** not available

**Explosion limits**

**lower:** 14%

**upper:** 22%

**Density :** 1.3 g/cm<sup>3</sup>

**Bulk density:** not available

**Solubility in**

**water (20 °C) :**Slightly soluble in water

**diluted acids (20 °C) :** not available

**Thermal decomposition:** not available

## **10. Stability and reactivity**

### **Chemical stability**

The product is chemically stable under standard ambient conditions.

### **Conditions to avoid**

Heat, flames and sparks.

### **Materials to avoid**

Alkali metals, aluminum, strong oxidants, bases, amines, magnesium, strong acids and bases, vinyl compounds

### **Hazardous decomposition products**

not available

## **11. Toxicological information**

### **Acute toxicity**

#### **Acute toxicity**

LD50 Oral - Rat - > 2,000 mg/kg

LC50 Inhalation - Rat - 52,000 mg/m<sup>3</sup>

LD50 Dermal - Rat - > 2,000 mg/kg

### **Skin corrosion or irritation**

no data available

### **Serious eye damage or eye irritation**

no data available

### **Respiratory or skin sensitization**

no data available

### **Germ cell mutagenicity**

no data available

### **Carcinogenicity**

Carcinogenicity - Rat - inhalation

Tumorigenesis: Carcinogenicity meeting RTECS criteria. Endocrine: tumor

In animal studies, there have been only limited signs of cancer

IARC: 2B - Group 2B: Possible Carcinogenic to humans (Methylene chloride)

### **Specific target organ toxicity - single exposure**

no data available

### **Specific target organ toxicity - repeated exposure**

no data available

### **Aspiration hazard**

no data available

## **12. Ecological information**

### **Toxicity**

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 193 mg/l - 96 h

### **Persistence and degradability**

no data available

### **Bioaccumulative potential**

no data available

### **Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

no data available

**13. Disposal considerations**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

**14. Transport information**

**ADR/RID**

UN-Number: 1593 Class:6.1 Packing group: III

Proper shipping name: DICHLOROMETHANE

**IMDG**

UN-Number: 1593 Class:6.1 Packing group: III

Proper shipping name: DICHLOROMETHANE

Marine pollutant: No

**IATA**

UN-Number: 1593 Class:6.1 Packing group: III

Proper shipping name: Dichloromethane

**15. Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**16. Other information**

General update.

*Regional representation:*

This information is given on the authorised Safety Data Sheet for your country.