



杭州大阳化工有限公司

Hangzhou Dayangchem Co., Ltd.

Safety Data Sheet

No :M-9471

Section 1 - Product and Company Identification

MSDS Name: 2-Chloroethyl ether

Synonyms: Bis(2-chloroethyl) ether; 2,2'-Dichlorodiethyl ether

Company Identification: Hangzhou Dayangchem Co., Ltd.

For information, call: 86-571-88938639

For information,E-mail: infores@chinadayangchem.com

Emergency Number: 86-571-88938639

For CHEMTREC assistance, call: 86-571-88938639; FAX:86-571-88938652

Section 2 – Hazards Identification

Classification of the substance or mixture

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

Carcinogenicity (Category 2)

Acute toxicity, Inhalation (Category 2)

Acute toxicity, Dermal (Category 1)

Acute toxicity, Oral (Category 2)

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

Limited evidence of a carcinogenic effect. Very toxic by inhalation, in contact with skin and if swallowed.

Label elements

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

Pictogram



Signal word Danger

Hazard statement(s)

H300 Fatal if swallowed.

H310 Fatal in contact with skin.

H330 Fatal if inhaled.

H351 Suspected of causing cancer.

Precautionary statement(s)

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/ protective clothing.

P284 Wear respiratory protection.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

P302 + P350 IF ON SKIN: Gently wash with plenty of soap and water.

According to European Directive 67/548/EEC as amended.

Hazard symbol(s)



R-phrases

R26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.

R40 Limited evidence of a carcinogenic effect.

S-phrases

S 7/9 Keep container tightly closed and in a well-ventilated place.

S27 Take off immediately all contaminated clothing.

S28 After contact with skin, wash immediately with plenty of soap and water.

S36/37 Wear suitable protective clothing and gloves.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Other hazards-Lachrymator.

Section 3 – Composition/Information on Ingredients

CAS#	Chemical Name	%	EINECS#
111-44-4	2-Chloroethyl ether	99	203-870-1

Section 4 - First Aid Measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

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. Take victim immediately to hospital. Consult a physician.

In case of eye contact: Flush eyes with water as a precaution.

If swallowed: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5 - Fire Fighting Measures

Advice for firefighters: Wear self contained breathing apparatus for fire fighting if necessary.

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

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Wear respiratory protection. Avoid breathing vapors, 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.

Spills/Leaks: 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 (see section 13).

Section 7 - Handling and Storage

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.

Storage: Store in cool place. 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.

Section 8 - Exposure Controls, Personal Protection

Contains no substances with occupational exposure limit values.

Personal Protective Equipment

Eyes: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin: 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.

Clothing: Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respirators: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator

cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9 - Physical and Chemical Properties

Physical State: liquid, clear

Color: colourless

Odor: Not available.

pH: Not available.

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: 65 - 67 °C at 20 hPa - lit.

Freezing/Melting Point: -47 °C - lit.

Autoignition Temperature: Not available.

Flash Point: 55.0 °C - closed cup

Explosion Limits:Lower: Not available.

Explosion Limits Upper: Not available.

Decomposition Temperature: Not available.

Solubility in water: Not available.

Specific Gravity/Density: 1.22 g/cm³ at 25 °C

Molecular Formula: C₄H₈Cl₂O

Molecular Weight: 143.01

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Heat, flames and sparks.

Incompatibilities with Other Materials: oxidizing agents.

Hazardous Decomposition Products: Carbon oxides, Hydrogen chloride gas

Section 11 - Toxicological Information

RTECS#: CAS# 111-44-4: KN0875000

LD50/LC50: RTECS: LD50 Oral - rat - 75.0 mg/kg

LC50 Inhalation - rat - 4 h - 330 mg/m³

LD50 Dermal - rabbit - 90.0 mg/kg

Skin corrosion/irritation

Skin - rabbit - Open irritation test

Serious eye damage/eye irritation

Eyes - rabbit - Severe irritation

Carcinogenicity: 2-Chloroethyl ether- Not listed as a carcinogen by ACGIH, IARC, NTP, or CA

Prop 65.

Potential health effects

Inhalation May be fatal if inhaled. May cause respiratory tract irritation.

Ingestion Toxic if swallowed.

Skin May be fatal if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Section 12 - Ecological Information

Toxicity

Toxicity to fish LC50 - *Lepomis macrochirus* (Bluegill) - 600.00 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates.

EC50 - *Daphnia magna* (Water flea) - 240.00 mg/l - 48 h

Bioaccumulative potential

Bioaccumulation *Lepomis macrochirus* (Bluegill) - 14 d -0.00991 mg/l

Bioconcentration factor (BCF): 11

Section 13 - Disposal Considerations

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging: Dispose of as unused product.

Section 14 - Transport Information

	IMO	RID/ADR	IATA
Shipping Name:	2,2'-DICHLORODIETHYL ETHER	2,2'-DICHLORODIETHYL ETHER	2,2'-Dichlorodiethyl ether
Hazard Class:	6.1 (3)	6.1 (3)	6.1 (3)
UN Number:	1916	1916	1916
Packing Group:	II	II	II
marine pollutant: No			
other applicable information: Not available.			

Section 15 - Regulatory Information

This safety data sheet complies with the requirements of Regulation (EC) No 1907/2006

Section 16 - Other Information

MSDS Creation Date: 23/09/2012

Revision #1 Date: 25/01/2014

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express

or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.