

2,2'-DICHLORODIETHYL ETHER**SAFETY DATA SHEET****SDS**


WUXI YANGSHI CHEMICAL CO., LTD

according to GHS (*fourth revised edition*)**Section 1 - Product and Company Identification**

Product name:	2,2'-DICHLORODIETHYL ETHER
Applicant name:	WUXI YANGSHI CHEMICAL CO., LTD
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MSDS number:	DG124463E
Effective date:	Mar 1, 2018

Section 2 –Hazards Identification

Label elements of the substance according to GHS(the fourth revised edition):

Pictogram	
Signal	Danger
Hazard statement(s)	H226 Flammable liquid and vapour H301 Toxic if swallowed H310 Fatal in contact with skin H330 Fatal if inhaled H351 Suspected of causing cancer
Precautionary statements	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P262 Do not get in eyes, on skin, or on clothing.

P264 Wash 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.

P301+P310 IF SWALLOWED: Immediately call a POISON ENTER/doctor.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P363 Wash contaminated clothing before reuse.

P370+P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

P405 Store locked up.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3 – Composition/Information on Ingredients

Component	Concentration	CAS No.	EC No.
2,2'-DICHLORODIETHYL ETHER	99.5%	111-44-4	203-870-1

Section 4 – First Aid Measures

After skin contact:	Wash off with soap and plenty of water. Consult a physician.
After eye contact:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
After ingestion:	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
After inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Section 5 – Fire Fighting Measures

Hazardous products of combustion:	Carbon oxides and hydrogen chloride gas.
Extinguishing method:	Use alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment :	Wear self contained breathing apparatus for fire fighting if necessary.

Section 6 – Accidental Release Measure

Personal precautions:	Use personal protective equipment. Ensure adequate ventilation. Avoid breathing vapors, mist or gas. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
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Environmental precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Methods for cleaning up:	Pick up and arrange disposal .Keep in suitable, closed containers for disposal.

Section 7 – Handling and Storage

Handling:	Avoid contact with skin and eyes. Ensure adequate ventilation. Keep away from sources of ignition - No smoking. Avoid breathing vapors, mist or gas. 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

Engineering Controls:	Safety shower and eye bath. Mechanical exhaust required.
Respiratory protection:	Use a full-face supplied air respirator.
Eye protection:	Wear chemical goggles
Body protection:	Protective work clothing
Hand Protection:	Wear impervious chemical resistant gloves
Other protection:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Section 9 – Physical and Chemical Properties

Appearance: Colorless transparent liquid	Odor: No data available
Melting point (°C): -47	Relative density (g/cm³): 1.22
Boiling point (°C): No data available	Relative density of steam distillation (g/mL): No data available
Saturated vapor pressure(Kpa): No data available	Heat of combustion (kJ/mol): No data available
Flash point (°C): 55 (closed cup)	Critical pressure (Mpa): No data available
Ignition temperature (°C): No data available	Upper explosive limit% (V/V): No data available
Partition coefficient octanol/water: No data available	Lower explosive limit% (V/V): No data available

Section 10 – Stability and Reactivity

Stability:	No data available.
Substances to avoid:	Oxidizing agents.
Condition to avoid contact	Heat, flames and sparks.
Hazardous decomposition products:	No data available.

Section 11 – Toxicological Information

Acute toxicity:	LD ₅₀ (rat, oral) 75 mg/kg; LD ₅₀ (rabbit, Dermal) 90 mg/kg; LC ₅₀ (rat, Inhalation, 4 h) 0.3 mg/L.
Skin corrosion/irritation:	No data available.
Serious eye damage/eye irritation:	No data available.
Respiratory or skin sensitization:	No data available.
Germ cell mutagenicity:	No data available.
Carcinogenicity:	No data available.

Reproductive toxicity:	No data available.
Specific target organ toxicity – single exposure:	No data available.
Specific target organ toxicity – repeated exposure:	No data available.
Aspiration hazard:	No data available.

Section 12 – Ecological Information

Ecotoxicity: LC₅₀ (Lepomis macrochirus, 96 h) 600.00 mg/L; EC₅₀ (Daphnia magna, 48 h) 240.00 mg/L.

Biodegradability:	No data available.
Abiotic degradation:	No data available.
Bioaccumulation:	No data available.
Other hazards	No data available.

Section 13 – Disposal Considerations

Property of waste:	No data available.
Methods of disposal:	Dispose of in a manner consistent with federal, state, and local regulations. Burning method is recommended.
Precautions of disposal:	No data available.

Section 14 - Transport Information

UN number:	1916
UN proper shipping name:	2,2'-DICHLORODIETHYL ETHER
Transport hazard class:	Class 6.1+3
Packing group:	II

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture:
no data available

Section 16 - Additional Information

Prepared by:	Changzhou Testing Center of Entry-Exit Industrial and Consumable Products
Completion Date:	Mar 1, 2018
Modification statement:	Original. Please update before the implementation of the GHS fifth revised edition.
Other information:	The information contained herein is prepared according to UN GHS (the fourth revised edition) and is accurate to the best of our knowledge. 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 way 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.