Diethylene glycol monomethyl ether

SAFETY DATA SHEET

SDS

Jiangsu Tianyin Chemical Industry Co., Ltd.

according to GHS(sixth revised edition)

Section 1 - Product and Company Identification

Product name	Diethylene glycol monomethyl ether
Applicant name	Jiangsu Tianyin Chemical Industry Co., Ltd.
Application address	Qianguan Village, Zhoutie Town, Yixing County, Jiangsu Province, China
Applicant post code	214262
Applicant fax	+86-510-87557125
Applicant emergency number	+86-510-87551427
Manufacturer name	Jiangsu Tianyin Chemical Industry Co., Ltd.
Manufacturer address	Qianguan Village, Zhoutie Town, Yixing County, Jiangsu Province, China
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Effective date	Jun 24, 2016

Section 2 –Hazards Identification

Hazard class and label elements of the substance according to GHS(the sixth revised edition):

GHS hazard class

Physical hazard	Flammable liquids	category4
Health hazard	Reproductive toxicity	category2

Pictogram

Signal	Warning
Hazard statements	H227 Combustible liquid
	H361 Suspected of damaging fertility or the unborn child

Precautionary statements

Prevention	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P280 Wear protective gloves/protective clothing/eye protection/face protection.
Response	P308+P313 IF exposed or concerned: Get medical advice/ attention.
Storage	P403 Store in a well-ventilated place.

	P405 Store locked up.
Disposal	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.
Diethylene glycol methyl ether	99%	111-77-3	203-906-6

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	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
After inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.

Section 5 – Fire Fighting Measures

Hazardous products of combustion	Carbon oxides.
Extinguishing method	Use water spray, 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 protective measures	Use personal protective equipment. 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 protective measures	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods for taking in and cleaning up	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

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

Engineering Controls	Safety shower and eye bath. Mechanical exhaust required.
Respiratory protection	Use a full-face supplied air respirator.
Eye protection	Wear chemical goggles.
Hand Protection	Wear impervious chemical resistant gloves.

Body protection Protective work clothing.

Section 9 – Physical and Chemical Properties

Appearance and properties: Colorless transparent liquid

Odor: No data available

Odor threshold: No data available

pH value: No data available

Melting point/freezing point(℃): -65

Initial boiling point and boiling range(℃): 194.1

Flash point(℃)(closed cup): 87

Evaporation Rate: No data available

Flammability: No data available

Upper explosive limit%(V/V): 9.5

Lower explosive limit%(V/V): 1.5

Vapor pressure(MPa): No data available

Vapor density(g/mL): 4.14

Relative density(g/cm ^{3}): 1.03(20℃)

Solubility: No data available

Octanol / water partition coefficient: -0.68

Auto-ignition temperature(℃): 215

Decomposition temperature(℃): No data available

Kinematic viscosity (mm^2/s): No data available

Section 10 – Stability and Reactivity

Reactive	No data available
Chemical stability	Stable under the condition recommended.
Possibility of hazardous reactions	No data available
Avoid conditions	Heat, flames and sparks.
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	No data available

Section 11 – Toxicological Information

Acute toxicity:

Diethylene glycol methyl ether: LD_{50}(rat,Oral) 4090mg/kg;LD_{50}(rabbit,Dermal)2560 mg/kg

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: Diethylene glycol methyl ether（CAS No. 111-77-3）： 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

Toxicity: No data available

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Other adverse effects: No data available.

Section 13 – Disposal Considerations

Property of waste: Hazardous Waste

Methods of disposal: Dispose of in a manner consistent with federal, state, and local regulations.

Precautions of disposal: Professional processing together

Section 14 - Transport Information

According to the criteria of chemical classification settled in《UN Recommendations on the Transport of Dangerous Goods Model Regulations》(Nineteenth revised edition), this substance is not dangerous.

Section 15 - Regulatory Information

Component	CHINA	TSCA	ENCS	EINECS
Diethylene glycol methyl ether	√	√	√	√

Note 1:

CHINA - China Inventory of Existing Chemical Substances（IECSC）

TSCA - United States Inventory of Toxic Substances Control Act Chemical Substances（TSCA）

ENCS - Japan Existing and New Chemical Substances（ENCS）

EINECS - European Inventory of Existing Commercial Chemical Substances（EINECS）

Note 2:

"√" Indicates that the substance included in the regulations

"-" That no data or included in the regulations

Section 16 - Additional Information

Other information: This Safety Data Sheet (SDS) was prepared according to UN GHS (the sixth revised edition) and the information included is based on the present state of our knowledge. However, the information is provided without any warranty, express or implied, regarding its correctness and is only for users reference. Users should make their independent judgement of suitability of these information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.