

Ethylene glycol monoethyl ether(EE)**SAFETY DATA SHEET****SDS**

**DYNAMIC (NANJING) CHEMICAL INDUSTRY
CO., LTD.**

according to GHS(fifth revised edition)

Section 1 - Product and Company Identification

Product name	Ethylene glycol monoethyl ether(EE)
Applicant name	DYNAMIC (NANJING) CHEMICAL INDUSTRY CO., LTD.
Application address	1-A22-1 Bailong Road, Nanjing Chemical Industry Park, Nanjing Ctiy, Jiangsu Province, China
Applicant post code	210047
Applicant fax	+86-25-57092798
Applicant emergency number	+86-25-57098565
Applicant email	1293152560@qq.com
Manufacturer name	DYNAMIC (NANJING) CHEMICAL INDUSTRY CO., LTD.
Manufacturer address	1-A22-1 Bailong Road, Nanjing Chemical Industry Park, Nanjing Ctiy, Jiangsu Province, China
Manufacturer post code	210047
Manufacturer fax	+86-25-57092798
Manufacturer emergency number	+86-25-57098565
SDS number	DG1510370E
Effective date	Sep 08, 2015

Section 2 –Hazards Identification

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

GHS hazard class		
Physical hazard(s)	Flammable liquids	category3
Health hazard(s)	Acute toxicity, oral	category4
	Acute toxicity, dermal	category5
	Acute toxicity, inhalation	category3
	Reproductive toxicity	category1

Pictogram



Signal

Danger

Hazard statement(s)

H226 Flammable liquid and vapour
 H302 Harmful if swallowed
 H313 May be harmful in contact with skin
 H331 Toxic if inhaled
 H360 May damage fertility or the unborn child

Precautionary statements**Prevention**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P233 Keep container tightly closed.
 P240 Ground and bond container and receiving equipment.
 P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
 P242 Use non-sparking tools.
 P243 Take action to prevent static discharges.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 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.

Response

P301+P312 IF SWALLOWED: Call a POISON CENTER/ doctor/if you feel unwell.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P308+P313 IF exposed or concerned: Get medical advice/ attention.
 P311 Call a POISON CENTER/doctor.
 P312 Call a POISON CENTER/doctor/if you feel unwell.
 P330 Rinse mouth.

Storage

P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P403+P235 Store in a well-ventilated place. Keep cool.
 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.
Ethylene glycol monoethyl ether	Commercial Secrets	110-80-5	203-804-1

Section 4 – First Aid Measures

After skin contact

Take off the contaminated clothing and shoes immediately. 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.
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(°C): -100	Initial boiling point and boiling range(°C): 135
Flash point(°C)(closed cup): 43	Evaporation Rate: No data available
Flammability: No data available	Upper explosive limit%(V/V): 15.7
Lower explosive limit%(V/V): 1.8	Vapor pressure(MPa): No data available
Vapor density(g/mL): No data available	Relative density(g/cm³): 0.93 (20°C)
Solubility: Miscibility with water	Octanol / water partition coefficient: -0.28
Auto-ignition temperature(°C): 235	Decomposition temperature(°C): No data available

Kinematic viscosity (mm²/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	Antioxidant, copper.
Hazardous decomposition products	No data available.

Section 11 – Toxicological Information

Acute toxicity:

Ethylene glycol monoethyl ether: LD₅₀(rat,Oral) 2125mg/kg;LC₅₀(rat,Inhalation,4h)9.74 mg/L;
LD₅₀(rabbit,Dermal)3300 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: 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

UN number: 1171

UN proper shipping name: ETHYLENE GLYCOL MONOETHYL ETHER

Transportation primary hazard class: 3

Transportation secondary hazard class: —

Packing group: III

Section 15 - Regulatory Information

Component	CHINA	TSCA	ENCS	EINECS
Ethylene glycol monoethyl 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

Prepared by:	Changzhou Testing Center of Entry-Exit Industrial and Consumable Products
Completion Date:	Sep 08, 2015
Modification statement:	Original. Please update before the implementation of the GHS Sixth revised edition.
Other information:	This Safety Data Sheet (SDS) was prepared according to UN GHS (the fifth 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.