

SAFETY DATA SHEET**DIETHYLENE GLYCOL MONOETHYL
ETHER (DE)****SDS**

JIANGSU DYNAMIC CHEMICAL CO., LTD.

- According to GHS (Sixth Revised Edition)

Section 1 Product and Company Identification**> Product Identifier**

Product Name	DIETHYLENE GLYCOL MONOETHYL ETHER (DE)
Synonyms	-
CAS No.	111-90-0
EC No.	203-919-7
Molecular Formula	C6H14O3

> Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Relevant Identified Uses	Please consult manufacturer.
Uses Advised Against	Please consult manufacturer.

> Details of the Supplier of the Safety Data Sheet

Applicant Name	JIANGSU DYNAMIC CHEMICAL CO., LTD.
Application Address	1-A22-1 BAILONG ROAD, NANJING CHEMICAL INDUSTRY PARK, CHINA
Applicant Post Code	210047
Applicant Telephone	+86-25-58391612
Applicant Fax	+86-25-57092798
Applicant E-mail	709929706@qq.com
Manufacturer Name	JIANGSU DYNAMIC CHEMICAL CO., LTD.
Manufacturer Address	1-A22-1 BAILONG ROAD, NANJING CHEMICAL INDUSTRY PARK, CHINA
Manufacturer Post Code	210047
Manufacturer Telephone	+86-25-58391612
Manufacturer Fax	+86-25-57092798
Manufacturer E-mail	709929706@qq.com

> Emergency Phone Number

Emergency Phone Number	+86-25-57098565
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Section 2 Hazards Identification

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

> **GHS Hazard Class**

Acute Toxicity – Oral	Category 5
Skin Corrosion/Irritation	Category 3
Eye Damage/Irritation	Category 2A

> **GHS Label Elements**

Pictogram



Signal Word

Warning> **Hazard Statements**

H303	May be harmful if swallowed
H316	Causes mild skin irritation
H319	Causes serious eye irritation

> **Precautionary Statements****Prevention**

P264	Wash ... thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Response

P312	Call a POISON CENTER/doctor, if you feel unwell.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage

Not applicable

Disposal

Not applicable

Section 3 Composition/Information on Ingredients

Component	Concentration (weight percent, %)	CAS No.	EC No.
DIETHYLENE GLYCOL MONOETHYL ETHER (DE)	Commercial secrets	111-90-0	203-919-7

Section 4 First Aid Measures

> **Description of First Aid Measures**

General Advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin Contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

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.
Protecting of First-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

> **Most Important Symptoms and Effects, both Acute and Delayed**

- 1 Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

> **Indication of Any Immediate Medical Attention and Special Treatment Needed**

- 1 Treat symptomatically.
- 2 Symptoms may be delayed.

Section 5: Fire Fighting Measures

> **Extinguishing Media**

Suitable Extinguishing Media	Dry chemical, carbon dioxide, water spray, alcohol-resistant foam.
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter or spread fire.

> **Specific Hazards Arising from the Substance or Mixture**

- 1 Containers may explode when heated.
- 2 Fire exposed containers may vent contents through pressure relief valves.
- 3 May expansion or decompose explosively when heated or involved in fire.

> **Advice for Firefighters**

- 1 As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 Fight fire from a safe distance, with adequate cover.
- 3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6: Accidental Release Measure

> **Personal Precautions, Protective Equipment and Emergency Procedures**

- 1 Ensure adequate ventilation. Remove all sources of ignition.
- 2 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- 3 Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

> **Environmental Precautions**

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

> **Methods and Materials for Containment and Cleaning Up**

- 1 Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
- 2 Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
- 3 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

> Precautions for Handling**Section 7 Handling and Storage**

- 1 Handling is performed in a well ventilated place.
- 2 Wear suitable protective equipment.
- 3 Avoid contact with skin and eyes.
- 4 Keep away from heat/sparks/open flames/ hot surfaces.
- 5 Take precautionary measures against static discharges.

> Precautions for Storage

- 1 Keep containers tightly closed.
- 2 Keep containers in a dry, cool and well-ventilated place.
- 3 Keep away from heat/sparks/open flames/ hot surfaces.
- 4 Store away from incompatible materials and foodstuff containers.

Section 8 Exposure Controls/Personal Protection**> Control Parameters****Occupational Exposure Limit Values**

Component	Country/Region	Limit Value - Eight Hours		Limit Value - Short Term	
		ppm	mg/m ³	ppm	mg/m ³
DIETHYLENE GLYCOL MONOETHYL ETHER (DE) 111-90-0	Switzerland	-	50	-	100
	Sweden	15	80	30	170
	Germany (DFG)	-	50	-	100
	Germany (AGS)	6	35	12	70
	Canada - Ontario	30	165	-	-

Biological Limit Values

No information available

Monitoring Methods

- 1 EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
- 2 GBZ/T 160.1~GBZ/T 160.81-2004 Determination of toxic substances in workplace air(Series standard).

> Engineering Controls

- 1 Ensure adequate ventilation, especially in confined areas.
- 2 Ensure that eyewash stations and safety showers are close to the workstation location.
- 3 Use explosion-proof electrical/ventilating/lighting/equipment.
- 4 Set up emergency exit and necessary risk-elimination area.

> Personal Protection Equipment**Eye Protection**

Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).

Hand Protection

Wear protective gloves (such as butyl rubber) , passing the tests according to EN 374(EU),US F739 or AS/NZS 2161.1 standard.

Respiratory protection

If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.

Skin and Body Protection

Wear fire/flame resistant/retardant clothing and antistatic boots.

Section 9 Physical and Chemical Properties

Appearance: Colorless transparent liquid

Odor Threshold: No information available

Melting Point/Freezing Point (°C): -76

Flash Point (°C)(Closed Cup): 96

Flammability: Not applicable

Vapor Pressure (MPa): 19Pa

Relative Density (g/cm³): 0.99

n-Octanol/Water Partition Coefficient: -0.15

Decomposition Temperature (°C): No information available

Particle characteristics: Not applicable

Odor: No information available

pH: No information available

Initial Boiling Point and Boiling Range (°C): 196~202

Evaporation Rate: No information available

Upper/lower explosive limits[%(v/v)]: Upper limit : No information available ; Lower limit : No information available

Vapor Density (g/mL): 4.6

Solubility: Miscible with water

Auto-Ignition Temperature(°C): 204

Kinematic Viscosity (mm²/s): No information available

Section 10 Stability and Reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical Stability	Stable under proper operation and storage conditions.
Possibility of Hazardous Reactions	No information available
Conditions to Avoid	Incompatible materials, heat, flame and spark.
Incompatible Materials	No information available
Hazardous Decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11 Toxicological Information

> Acute Toxicity

Component	CAS No.	LD ₅₀ (Oral)	LD ₅₀ (Dermal)	LC ₅₀ (Inhalation, 4h)
DIETHYLENE GLYCOL MONOETHYL ETHER (DE)	111-90-0	3620mg/kg(Rabbit)	No information available	> 5.24mg/L(Rat)

> Skin Corrosion/Irritation

Causes mild skin irritation(Category 3)(DIETHYLENE GLYCOL MONOETHYL ETHER (DE))

> Serious Eye Damage/Irritation

Causes serious eye irritation(Category 2A)(DIETHYLENE GLYCOL MONOETHYL ETHER (DE))

> Skin Sensitization

No information available

> Respiratory Sensitization

No information available

> Germ Cell Mutagenicity

No information available

> Carcinogenicity

ID	CAS No.	Component	IARC	NTP
1	111-90-0	DIETHYLENE GLYCOL MONOETHYL ETHER (DE)	Not Listed	Not Listed

> Reproductive Toxicity

No information available

> Reproductive Toxicity (Additional)

No information available

> STOT-Single Exposure

Causes mild skin irritation(Category 3)(DIETHYLENE GLYCOL MONOETHYL ETHER (DE))

> STOT-Repeated Exposure

No information available

> Aspiration Hazard

No information available

Section 12 Ecological Information**> Acute Aquatic Toxicity**

Component	CAS No.	Fish	Crustaceans	Algae
DIETHYLENE GLYCOL MONOETHYL ETHER (DE)	111-90-0	LC ₅₀ : 13900mg/L (96h)(Fish)	EC ₅₀ : 4000mg/L (48h)	No information available

> Chronic Aquatic Toxicity

No information available

> Others

Persistence and Degradability No information available

Bioaccumulative Potential No information available

Mobility in Soil

No information available

Results of PBT and vPvB Assessment

DIETHYLENE GLYCOL MONOETHYL ETHER (DE) does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

Section 13 Disposal Considerations**Waste Chemicals**

Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.

Contaminated Packaging

Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.

Disposal Recommendations

Refer to section 13.1 and 13.2.

Section 14 Transport Information**Transporting Label**

Not applicable

UN Number

-

UN Proper Shipping Name

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport Hazard Class

None

Transport Subsidiary Hazard Class

None

Packing Group

-

Section 15 Regulatory Information**> International Chemical Inventory**

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
DIETHYLENE GLYCOL MONOETHYL ETHER (DE)	√	√	√	√	√	√	√	√	√

[EINECS] European Inventory of Existing Commercial Chemical Substances.

[TSCA] United States Toxic Substances Control Act Inventory.

[DSL] Canadian Domestic Substances List.

[IECSC] China Inventory of Existing Chemical Substances.

[NZIoC] New Zealand Inventory of Chemicals.

[PICCS] Philippines Inventory of Chemicals and Chemical Substances.

[KECI] Existing and Evaluated Chemical Substances.

[AICS] Australia Inventory of Chemical Substances.

[ENCS] Existing And New Chemical Substances.

Note

"√" Indicates that the substance included in the regulations

"x" That no data or included in the regulations

Section 16 Additional Information**Creation Date**

2017/01/17

Revision Date	2017/01/17
Reason for Revision	-

> Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 6th revised edition). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user' s reference. Users should make their independent judgment of suitability of this 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.

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