

SAFETY DATA SHEET**DIETHYLENE GLYCOL MONOBUTYL****ETHER(DB\BDG)****SDS**

JIANGSU DYNAMIC CHEMICAL CO., LTD.

- According to GHS (Eighth Revised Edition)

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

Product Name	DIETHYLENE GLYCOL MONOBUTYL ETHER(DB\BDG)
Synonyms	-
CAS No.	112-34-5
EC No.	203-961-6
Molecular Formula	C ₈ H ₁₈ O ₃

> 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.
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Supplier Name	JIANGSU DYNAMIC CHEMICAL CO., LTD.
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> 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 eighth revised edition):

> GHS Hazard Class

Flammable Liquids	Category 4
Acute Toxicity – Dermal	Category 5
Eye Damage/Irritation	Category 2A

> GHS Label Elements

Pictogram



Signal Word

Warning

> Hazard Statements

H227	Combustible liquid
H313	May be harmful in contact with skin
H319	Causes serious eye irritation

> Precautionary Statements

Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P264	Wash thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Response

P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use dry chemical, carbon dioxide, water spray, alcohol-resistant foam to extinguish.
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

P403	Store in a well-ventilated place.
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Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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Section 3 : Composition/Information on Ingredients

Component	Concentration (weight percent, %)	CAS No.	EC No.
DIETHYLENE GLYCOL MONOBUTYL ETHER(DB\BDG)	≥ 99	112-34-5	203-961-6

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.

Section 7 Handling and Storage

> Precautions for Handling

- 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 MONOBUTYL ETHER(DB\BD G) 112-34-5	Latvia	10	67.5	15	101.2
	Ireland	10	67.5	15	101.2
	Germany (AGS)	10	67	15	100
	Denmark	-	100	-	200
	Belgium	10	67.5	15	101.2
	Austria	10	67.5	15	101.2

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 Determination of toxic substances in workplace air(Series effective standard)and GBZ/T 300 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): -68

Flash Point (°C)(Closed Cup): 78

Flammability: Not applicable

Vapor Pressure (KPa): 3Pa

Relative Density(Water=1): 0.95

n-Octanol/Water Partition Coefficient: 0.3

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): 230

Evaporation Rate: No information available

Upper/lower explosive limits[% (v/v)]: Upper limit: 9.4; Lower limit: 0.8

Relative Vapour Density(Air = 1): 5.6

Solubility: Miscible with water

Auto-Ignition Temperature(°C): 223

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 MONOBUTYL ETHER(DB\BDG)	112-34-5	5660mg/kg(Rat)	2700mg/kg(Rabbit)	No information available

> Skin Corrosion/Irritation

No information available

> **Serious Eye Damage/Irritation**

Causes serious eye irritation(Category 2A)(DIETHYLENE GLYCOL MONOBUTYL ETHER(DB\BDG))

> **Skin Sensitization**

No information available

> **Respiratory Sensitization**

No information available

> **Germ Cell Mutagenicity**

No information available

> **Carcinogenicity**

ID	CAS No.	Component	IARC	NTP
1	112-34-5	DIETHYLENE GLYCOL MONOBUTYL ETHER(DB\BDG)	Not Listed	Not Listed

> **Reproductive Toxicity**

No information available

> **Reproductive Toxicity (Additional)**

No information available

> **STOT-Single Exposure**

No information available

> **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 MONOBUTYL ETHER(DB\BDG)	112-34-5	LC ₅₀ : 1650mg/L (96h)(Fish)	No information available	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 MONOBUTYL ETHER(DB\BDG) 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 Disposal Recommendations	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible. 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 MONOBUTYL ETHER(DB\BDG)	√	√	√	√	√	√	√	√	√

- [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	2020/05/31
Revision Date	2020/05/31
Reason for Revision	-

> Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 8th 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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