

# Safety Data Sheet

According to GB/T 16483-2008 and GB/T 17519-2013

Dipropylene Glycol Monobutyl Ether

Version 1.0

Issue date: 26/04/2020

Revision date: 26/04/2020

SDS Record Number: CSSS-TCO-010-129367

## Section 1 Chemical Product and Company Identification

**Chemical name:** Dipropylene Glycol Monobutyl Ether  
**Additional identification:** DPNB  
**Product code:** Not available  
**Identification of the product:** CAS# 29911-28-2 EC# 249-951-5  
**Relevant identified uses of the substance and uses advised against**  
**Identified uses:** Used in coatings and cleaning agents.  
**Uses advised against:** Not available  
**Details of the supplier of the safety data sheet**  
**Name:** Jiangsu Yida Chemical Co., Ltd.  
**Address:** No.1 Qiuzhuang, Xishiqiao, Jiangyin, Jiangsu,P.R.China  
**Contact person(E-mail):** Panyan2011@aliyun.com  
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**Emergency telephone Number(24h):** 0510-86609119

## Section 2 Hazards Identification

**Emergency Overview:** Colourless liquid with mild ether-like odour. During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide. May be harmful if swallowed.

### GHS Classification:

<b>Physical hazards</b>	Not classified	
<b>Health hazards</b>	Acute toxicity - oral	Category 5
<b>Environmental hazards</b>	Not classified	

### Label elements

**Pictogram:** No hazard pictogram is used.  
**Signal Word(s):** Warning  
**Hazard Statement:** May be harmful if swallowed

### Precautionary statement

<b>Prevention:</b>	Not applicable.
<b>Response:</b>	Call a POISON CENTER/doctor if you feel unwell.
<b>Storage:</b>	Not applicable.
<b>Disposal:</b>	Not applicable.

**Physical and chemical hazards:** During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.

**Health hazards:** May be harmful if swallowed.

**Environmental hazard:** Based on all known information, this product does not affect the environment.

**Other hazards:** This product has not been found to have other hazards which are outside the scope of GB30000.2-29.

## Section 3 Composition Information on Ingredients

**Substance/Mixture/Article:** Substance  
**Ingredient(s):**

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Chemical Name	CAS No.	Concentration or concentration range (w/w %)
Dipropylene Glycol Monobutyl Ether	29911-28-2	≥99%

## Section 4 First Aid Measures

<b>In case of inhalation:</b>	Move person to fresh air; if effects occur, consult a physician.
<b>In case of skin contact:</b>	Wash skin with plenty of water.
<b>In case of eyes contact:</b>	Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.
<b>In case of ingestion:</b>	If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.
<b>Most important symptoms and effects, both acute and delayed:</b>	May be harmful if swallowed.
<b>To protect playing rescuer advice and the special hints to the doctor:</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
<b>Indication of any immediate medical attention and special treatment needed:</b>	Treat symptomatically.

## Section 5 Fire-fighting Measures

<b>Extinguishing agent</b>	
<b>Suitable extinguishing media:</b>	Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.
<b>Unsuitable extinguishing media:</b>	No data available.
<b>Special hazards arising from the chemical:</b>	During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.
<b>Special fire fighting methods and special protective actions for fire-fighters:</b>	Firefighters should wear self-contained breathing apparatus, and wear full-length firefighting gear, and cool the exposed container with water until all fire sources have been extinguished. Contain and dispose of fire-fighting water to prevent chemicals from entering the environment.

## Section 6 Accidental Release Measures

<b>Personal precautions, protective equipment and emergency procedures:</b>	Use appropriate safety equipment. For additional information, refer to Section Exposure Controls and Personal Protection.
<b>Environmental precautions:</b>	Keep away from drains, water and soil. Advise authorities if spilled material has entered water courses or sewer or has contaminated soil or vegetation.
<b>Methods and materials for containment and cleaning up:</b>	Small spills: Absorb with materials such as: Sand. Vermiculite. Collect in suitable and properly labeled containers. Large spills: Contain spilled material if possible. Pump into suitable and properly labeled containers.
<b>Precautions to prevent the occurrence of secondary hazards:</b>	Dispose of the collected spill immediately to avoid further leaks or sewers.

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## Section 7 Handling and Storage

### Safe handling

- Local and general ventilation:** Operations should be carried out in a place with partial ventilation or full ventilation.
- Safety instructions:** Operators should follow the procedure and use the personal protective equipment recommended by the SDS section 8.
- Precautions:** Avoid contact with eyes. Wash thoroughly after handling. Containers, even those that have been emptied, can contain vapors. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers. Spills of these organic materials on hot fibrous insulations may lead to lowering of the autoignition temperatures possibly resulting in spontaneous combustion.

### Storage

- Suitable storage conditions:** Eliminate all sources of combustion. Keep container hermetically closed in a dry and well ventilated environment.
- Incompatible materials:** Strong acids. Strong bases. Strong oxidizers.
- Safe packaging materials:** Keep it in the original container. Carbon steel. Stainless steel. Phenolic lined steel drums. Do not store in: Aluminum. Copper. Galvanized iron. Galvanized steel.

## Section 8 Exposure Controls / Personal Protection

- Occupational exposure limits:** According to GBZ2.1, the OELs of components are not established.
- Biological limits:** No standard has been established.
- Engineering controls:** Ensure adequate ventilation. The workplace shall have safe place to shower, clean eyes and body, and place for safe care.
- Personal protection equipment**
- Respiratory protection:** Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator. Use the following CE approved air-purifying respirator: Organic vapor cartridge, type A (boiling point >65 °C)
- Hand protection:** Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Use chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and micro-organisms. Examples of preferred glove barrier materials include: Butyl rubber. Ethyl vinyl alcohol laminate ("EVAL"). Examples of acceptable glove barrier materials include: Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl"). Viton. When prolonged or frequently repeated contact may occur, a glove with a protection class of 4 or higher (breakthrough time greater than 120 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 1 or higher (breakthrough time greater than 10 minutes according to EN 374) is recommended.
- Eye protection:** Use chemical goggles.
- Skin and body protection:** Wear clean, body-covering clothing.

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**Hygiene measures:** Avoid contact with eyes. Wash hands after handling. Do not eat and drink in the workplace.

## Section 9 Physical and Chemical Properties

<b>Appearance:</b>	Colourless liquid
<b>Odor:</b>	Mild ether-like odour
<b>Odor threshold:</b>	No data available
<b>Molecular formula:</b>	C <sub>10</sub> H <sub>22</sub> O <sub>3</sub>
<b>Molecular weight:</b>	190.28
<b>Melting point/freezing point (°C):</b>	< -75 °C
<b>Boiling point, initial boiling point (°C):</b>	230 °C
<b>Density:</b>	0.91 g/cm <sup>3</sup> ( 22.8 °C)
<b>Relative density(H<sub>2</sub>O=1):</b>	0.91 ( 22.8 °C)
<b>Vapor pressure (64.3 °C) (kPa):</b>	1 mm Hg
<b>Partition coefficient (n-octanol/water):</b>	log Pow: 1.523( 25 °C)
<b>Solubility in water:</b>	Very soluble
<b>Solubility in organic solvents:</b>	No data available
<b>Flash point (°C):</b>	100.4 °C
<b>Auto-ignition temperature (°C):</b>	194 °C
<b>Flammability limit - lower (%):</b>	No data available
<b>Flammability limit - upper (%):</b>	No data available
<b>Decomposition temperature (°C):</b>	No data available
<b>Flammability (solid, gas):</b>	No data available
<b>Explosive properties</b>	No data available
<b>Explosive limit - lower (%):</b>	0.6 %
<b>Explosive limit - upper (%):</b>	20.4 %
<b>pH value:</b>	No data available
<b>Viscosity:</b>	5.84mm <sup>2</sup> /s ( 20 °C)
<b>Relative vapor density (air=1):</b>	No data available
<b>Relative evaporation rate (n-butyl acetate=1):</b>	No data available

## Section 10 Stability and Reactivity

<b>Stability:</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid:</b>	Incompatible materials. Do not distill to dryness. Product can oxidize at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems.
<b>Incompatible materials:</b>	Strong acids. Strong bases. Strong oxidizers.
<b>Hazardous decomposition products:</b>	Aldehydes. Ketones. Organic acids.

## Section 11 Toxicological Information

<b>Acute toxicity:</b>	
<b>LD50(Oral, Rat):</b>	4 000 mg/kg bw
<b>LD50(Dermal, Rabbit):</b>	No data available
<b>LC50(Inhalation, Rat, 4h):</b>	No data available

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<b>Skin corrosion/Irritation:</b>	Not classified
<b>Serious eye damage/irritation:</b>	Not classified
<b>Respiratory or skin sensitization:</b>	Not classified
<b>Germ cell mutagenicity:</b>	Not classified
<b>Carcinogenicity:</b>	Not classified
<b>Reproductive toxicity:</b>	Not classified
<b>STOT- single exposure:</b>	Not classified
<b>STOT-repeated exposure:</b>	Not classified
<b>Aspiration hazard:</b>	Not classified

## Section 12 Ecological Information

### Ecotoxicity

LC50 (Fish, 96h)	841 mg/L
EC50 (Daphnia, 48h)	> 100 mg/L
EC50 (Algae, 96h):	519 mg/L

<b>Persistence and degradability:</b>	Readily biodegradable.
<b>Bioaccumulative potential:</b>	No data available
<b>Mobility in soil:</b>	No data available

## Section 13 Disposal Considerations

<b>Residual waste</b>	Recycling as much as possible. If recycling is not possible, use incineration methods for disposal. Do not dispose of this product by means of discharge to the sewer.
<b>Contaminated packaging</b>	Empty containers or pads may retain some product residue, so beware of label warnings even when empty containers. These materials and their containers must be disposed of in a safe manner. Empty containers should be returned to the manufacturer or sent to a national / local approved waste disposal site.
<b>Disposal considerations:</b>	Waste disposal should refer to the relevant national and local laws and regulations, the waste chemicals for recycling, or packed in sealed containers, to a special waste disposal sites.

## Section 14 Transport Information

<b>UN Number:</b>	Not regulated
<b>UN Proper shipping name:</b>	Not regulated
<b>Transport hazard Class:</b>	Not regulated
<b>Packaging group:</b>	Not regulated
<b>Marine pollutant (yes/no):</b>	No

	JT/T 617	IMDG	ICAO/IATA
<b>UN Number:</b>	Not regulated	Not regulated	Not regulated
<b>UN Proper shipping name:</b>	Not regulated	Not regulated	Not regulated
<b>Transport hazard Class:</b>	Not regulated	Not regulated	Not regulated
<b>Packaging group:</b>	Not regulated	Not regulated	Not regulated
<b>Marine pollutant (yes/no):</b>	No	No	No

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## Transport special precautions:

- Grounding chains should be equipped with tank or car during transportation, hole plate can be set in the tank to prevent static electricity generated by shaking;
- Exhaust pipe of the vehicle which transports this product shall be equipped with fireproofing equipment, Do not handle with the machinery or tools which may produce spark easily;
- Do not package or transport with oxidant, food chemicals or others;
- Prevent from sunlight exposure, rain and heat during transportation, in summer, best to transport in the morning or evening;
- Keep away from fire, heat source and high temperature when stops on the way;
- Follow the route as prescribed during highway transportation, do not stay in residential areas and densely populated area;
- Prohibit humping in railway transportation;
- Transport vehicles should be equipped with corresponding fire equipment and spill contingency processing equipment.

## Section 15 Regulatory Information

The following laws, regulations, rules and standards, provide corresponding provisions of the management of chemicals:

Name	Relevant Inventories	Listed Or Not
Measures On Safety Management Of Hazardous Chemicals	Inventory Of Hazardous Chemicals	Not listed
	The First Batch Of Key Regulatory List Of Hazardous Chemicals	Not listed
Measures On New Substance Environmental Management	The Inventory Of Existing Chemical Substance In China	Listed
Provisions On Environmental Management Of First Import And Export Of Toxic Chemicals	China Strictly Restricted List Of Import And Export Of Toxic Chemicals	Not listed

## Section 16 Other Information

### Indication of changes:

Version 1.0 Amended by GB/T16483 and GB/T 17519.

### Abbreviations:

CAS: Chemical Abstracts Service

LC50: Lethal Concentration 50

EC50: Concentration for 50% of maximal effect

LD50: Lethal dose 50%

PC-TWA: time-weighted average allowable concentration, average allowable concentration in 8h working day, 40h work week.

PC-STEL: Short-Term Exposure Tolerance, the concentration allowed to be exposed in short-term (15 minutes).

IARC: International Agency for Research on Cancer

ACGIH: US Government Conference of Industrial Hygienists

ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Dangerous Goods

EINECS: European Inventory of Existing commercial Chemical Substances

IATA: International Air Transport Association

ICAO-TI: International Civil Aviation Organization The International Civil Aviation Covenant

### Disclaimer:

The information in this Safety Data Sheet (SDS) applies only to the products specified and does not apply to mixtures containing this product with other substances, unless otherwise specified. This Safety Data Sheet (SDS) is based on information currently

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available in all its aspects and will not be held responsible for its long-term timeliness. This Safety Data Sheet (SDS) provides information about the safety of the product for the intended purpose only to appropriately trained personnel operating the product. Users of this SDS must make independent judgments on the suitability of this SDS for special conditions of use. Under special conditions of use, the SDS author will not be responsible for the damage caused by the use of this Safety Data Sheet (SDS). Each user of the product should read carefully the contents of this Safety Data Sheet (SDS) before proceeding. For more information to ensure correct evaluation, please contact the product supplier.

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