

# Safety Data Sheet

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

Diethylene glycol monobutyl ether acetate

Version 1.0

Issue date: 09/07/2021

Revision date: 09/07/2021

SDS Record Number: CSSS-TCO-010-129357

## Section 1 Chemical Product and Company Identification

<b>Chemical name:</b>	Diethylene glycol monobutyl ether acetate
<b>Additional identification:</b>	2-(2-butoxyethoxy)ethyl acetate
<b>Product code:</b>	Not available
<b>Identification of the product:</b>	CAS#124-17-4 EC#204-685-9
<b>Relevant identified uses of the substance and uses advised against</b>	
<b>Identified uses:</b>	Used as a solvent. Widely used in car paint, TV paint, refrigerator paint, aircraft paint and other high-grade paint. Used as a photosensitive chemical, etc.
<b>Uses advised against:</b>	Not available
<b>Details of the supplier of the safety data sheet</b>	
<b>Name:</b>	Jiangsu Yida Chemical Co., Ltd.
<b>Address:</b>	No.1 Qiuzhuang, Xishiqiao, Jiangyin, Jiangsu,P.R.China
<b>Contact person(E-mail):</b>	Panyan2011@aliyun.com
<b>Telephone:</b>	0510-86608770
<b>Fax:</b>	0510-86608528
<b>Emergency telephone Number(24h):</b>	0510-86609119

## Section 2 Hazards Identification

**Emergency Overview: Colorless liquid, with a mild, not unpleasant odor. Hazardous combustion products may include carbon monoxide. Harmful to aquatic life.**

### GHS Classification:

<b>Physical hazards</b>	Not classified	
<b>Health hazards</b>	Not classified	
<b>Environmental hazards</b>	Hazardous to the aquatic environment - acute hazard	Category 3

### Label elements

<b>Pictogram:</b>	No hazard pictogram is used.
<b>Signal Word(s):</b>	No signal word is used.
<b>Hazard Statement:</b>	Harmful to aquatic life
<b>Precautionary statement</b>	
<b>Prevention:</b>	Avoid release to the environment.
<b>Response:</b>	Not applicable.
<b>Storage:</b>	Not applicable.
<b>Disposal:</b>	Dispose of contents/container in accordance with local regulation.
<b>Physical and chemical hazards:</b>	Based on all known information, this product is not physically or chemically dangerous.
<b>Health hazards:</b>	Based on all known information, this product is not harmful.
<b>Environmental hazard:</b>	Harmful to aquatic life.
<b>Other hazards:</b>	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):

Chemical Name	CAS No.	Concentration or concentration range (w/w %)
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Diethylene glycol monobutyl ether acetate	124-17-4	≥ 98%
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## Section 4 First Aid Measures

<b>In case of inhalation:</b>	Remove to fresh air. Keep warm and at rest. Get medical attention.
<b>In case of skin contact:</b>	Remove contaminated clothing. Wash skin with soap and water. Get medical attention if skin cracking or redness occurs.
<b>In case of eyes contact:</b>	Immediately flush eye with large quantities of water for at least 10 minutes holding the eye open. Avoid contaminating unaffected eye.
<b>In case of ingestion:</b>	Wash out mouth with water. Do not induce vomiting. Keep patient warm and at rest. Give 240-300 ml water to drink (only if patient is conscious). Repeat if patient vomits. Get medical attention if patient is unwell. Get medical attention if a large quantity is ingested.
<b>Most important symptoms and effects, both acute and delayed:</b>	Based on all known information, the product is not harmful to human health effect.
<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>	Alcohol-resistant foam, dry chemical powder, carbon dioxide, water mist.
<b>Unsuitable extinguishing media:</b>	Water in a jet.
<b>Special hazards arising from the chemical:</b>	Hazardous combustion products may include carbon monoxide.
<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>	Evacuate all non-essential personnel. Avoid eye and skin contact. Wear appropriate protective clothing. Ventilate area.
<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>	Absorb or contain liquid with sand, earth or spill control material. Collect and place in a labelled sealable container for subsequent safe disposal. Flush contaminated area with plenty of water. Put leaking containers in a labelled drum or overdrum.
<b>Precautions to prevent the occurrence of secondary hazards:</b>	Dispose of the collected spill immediately to avoid further leaks or sewers.

## Section 7 Handling and Storage

### Safe handling

<b>Local and general ventilation:</b>	Operations should be carried out in a place with partial ventilation or full ventilation.
<b>Safety instructions:</b>	Operators should follow the procedure and use the personal protective equipment

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**Precautions:** recommended by the SDS section 8.  
Avoid contact with skin. Keep container tightly closed when not in use. Provide emergency eye washing and shower facilities.

## Storage

**Suitable storage conditions:** Storage area should be cool and dry. Keep away from direct sunlight. Store in a bunded area.

**Incompatible materials:** Oxidising agents.

**Safe packaging materials:** Keep it in the original container. For containers use mild steel or stainless steel. Do not store in plastics or natural, butyl, polychloroprene or nitrile rubbers.

## 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:** Not required for protection against vapours.

**Hand protection:** Gloves made from butyl rubber, Neoprene™ rubber or nitrile rubber.

**Eye protection:** Protective goggles with side-shields.

**Skin and body protection:** Neoprene™ apron. Rubber boots.

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

## Section 9 Physical and Chemical Properties

**Appearance:** Colorless liquid

**Odor:** Mild, not unpleasant

**Odor threshold:** No data available

**Molecular formula:** C<sub>10</sub>H<sub>20</sub>O<sub>4</sub>

**Molecular weight:** 204.26

**Melting point/freezing point (°C):** < -70 °C

**Boiling point, initial boiling point (°C):** 245 °C

**Density:** 976.5 kg/m<sup>3</sup> (20 °C)

**Relative density(H<sub>2</sub>O=1):** No data available

**Vapor pressure (20°C) (kPa):** ca. 0.005 hPa

**Partition coefficient (n-octanol/water):** log Pow: 1.7 (23 °C)

**Solubility in water:** 65 g/L (20 °C)

**Solubility in organic solvents:** No data available

**Flash point (°C):** 116 °C

**Auto-ignition temperature (°C):** 290 °C

**Flammability limit - lower (%):** No data available

**Flammability limit - upper (%):** No data available

**Decomposition temperature (°C):** No data available

**Flammability (solid, gas):** No data available

**Explosive properties** No data available

**Explosive limit - lower (%):** No data available

**Explosive limit - upper (%):** No data available

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pH value:	No data available
Viscosity:	3.519 mm <sup>2</sup> /s (20 °C)
Relative vapor density (air=1):	No data available
Relative evaporation rate (n-butyl acetate=1):	No data available

## Section 10 Stability and Reactivity

Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No dangerous reaction known under conditions of normal use.
Conditions to avoid:	Incompatible materials. High temperatures and sources of ignition. Prolonged exposure to air/oxygen and light.
Incompatible materials:	Oxidizing agents.
Hazardous decomposition products:	Oxides of carbon.

## Section 11 Toxicological Information

Acute toxicity:	
LD50(Oral, Rat):	11920 mg/kg bw male
LD50(Dermal, Rabbit):	5400 - 5700mg/kg
LC50(Inhalation, Rat, 4h):	No data available
Skin corrosion/Irritation:	Not classified
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitization:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
STOT- single exposure:	Not classified
STOT-repeated exposure:	Not classified
Aspiration hazard:	Not classified

## Section 12 Ecological Information

Ecotoxicity	
LC50 (Fish, 96h)	> 50 - < 70 mg/L
LC50 (Daphnia, 48h)	664 mg/L
EC50 (Algae, 72h):	1570 mg/L
Persistence and degradability:	Readily biodegradable.
Bioaccumulative potential:	BCF: 1.99
Mobility in soil:	Not available.

## Section 13 Disposal Considerations

Residual waste	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.
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## Contaminated packaging

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.

## Disposal considerations:

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

**UN Number:** Not regulated

**UN Proper shipping name:** Not regulated

**Transport hazard Class:** Not regulated

**Packaging group:** Not regulated

**Marine pollutant (yes/no):** No

### 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

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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 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.

**Author: Hangzhou REACH Technology Group Co., Ltd.**

**Tel:86-571-87206555**

**Email: info@cirs-group.com**