Chemical Safety Data Sheet

Section 1 IDENTIFICATION

GHS Product identifier: Ethylene glycol monobutyl ether.

Other means of identification: /

Recommended use of the chemical and restrictions on use: /

Supplier's details:/

Emergency phone number: /

Section 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Flammable liquids Category 4

Acute toxicity, (inhalation) Category 3

Acute toxicity (Dermal) Category 3

Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A

GHS Label elements, including precautionary statements:

Symbol:

Signal word: Danger

Hazard statement(s): Combustible liquid. Toxic in contact with skin or if inhaled. Causes skin irritation. Causes serious eye irritation.

Precautionary statement(s):

Prevention:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands [and ...] thoroughly after handling. Use only outdoors or in a well-ventilated area. Do not touch eyes. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...

Response:

In case of fire: Use spray, fbam or dry powder to extinguish. IF ON SKIN: Take off immediately all contaminated clothing. Take off contaminated clothing. And wash it before reuse. Wash with plenty of water/... Get emergency medical help immediately. Specific treatment (see below). IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get emergency medical help immediately. Specific treatment (see below). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical help.

Storage;

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards which do not result in classification: /

Chemical Name	CAS No.	Concentration%
Ethylene glycol monobutyl ether	111-76-2	99.88%

Section 4 FIRST AID MEASURES

Description of necessary first aid measures

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician immediately.

In case of skin contact: Wash off with soap and plenty of running water. Consult a physician immediately. In case of eye contact: Rinse thoroughly with plenty of running water for at least 15 minutes and consult a physician immediately.

If ingestion: Rinse mouth with water. Consult a physician immediately.

Most important symptoms/effects, acute and delayed: /

Indication of immediate medical attention and special treatment needed, if necessary: /

Section 5 FIREFIGHTING MEASURES

Suitable extinguishing media: Use foam, dry powder, water spray to extinguish.

Special hazards arising from the chemical: This material is combustible. It may burn and decompose at high temperature and fire and release toxic fumes.

Special protective actions for fire-fighters: Firefighters must wear air breathing apparatus, fire-fighting suits and protective gloves to extinguish in the upwind direction. Whenever possible, remove the container from the fire to open space and use spray water to cool unopened containers.

Section 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: It is recommended that emergency personnel wear gas masks and anti-poison suits. Do not touch the spill directly.

Environmental precautions: Isolate contaminated areas and restrict access.

Methods and materials for containment and cleaning up: Small amount of leakage: adsorption with sand or other inert materials. Do not allow products to enter restricted areas such as sewers. A large amount of leakage: building a dike or digging a pit to contain. Transfer to a tank truck or special collector with a pump and transport to a waste disposal site for disposal.

Section 7 HANDLING AND STORAGE

Precautions for safe handling: There should be sufficient local exhaust in workplace. Operators should be trained and strictly follow the operating procedures. Operators are advised to wear gas masks, anti-poison suits and rubber gloves. Operators should load and unload lightly during handling to prevent damage to the package. There should be leakage treatment equipment in workplace. There may be harmful residues in empty containers.

Conditions for safe storage, including any incompatibilities: Store in a cool, dry, well-ventilated warehouse. Keep away from fire and heat. Protect from direct sunlight. The package should be sealed and not exposed to moisture. It should be stored separately from oxidants, flammable materials, etc., and should not be mixed. The storage area should be provided with suitable materials to contain spills.

Section 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Source Ingredient Material name TWA

China Occupational Exposure Limits fbr ethylene glycol,

2-butoxyethanol 97 mg/m, Hazardous Agents

附件 2: 安全数据单样本(英文)

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in the Workplace monobutyl ether

Appropriate engineering controls: Close strictly and provide sufficient local exhaust.

Individual protection measures

Eye/face protection: Wear a gas mask.

Skin protection: Wear an anti-poison suit.

Respiratory protection: Air respirators should be worn during emergency rescue or evacuation. Type A

Filter of sufficient capacity.

Thermal hazards: /

Section 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid.
Colour	Colorless transparento
Odour	/
Melting point/freezing point	-70°Co
Boiling point or initial boiling point and boiling range	171-172°Co
Flammability	Combustible.
Lower and upper explosion limit/flammability limit Flash point	68.5 °C o
Auto-ignition temperature	/
Decomposition temperature	/
рН	/
Kinematic viscosity	/
Solubility	miscible o
Partition coefficient: n-octanol/water (log value)	/
Vapour pressure	0.08@20°C
Density and/or relative density	0.90@20°Co
Relative vapour density	4.1
Particle characteristics	/

Section 10 STABILITY AND REACTIVITY

Reactivity: /

Chemical stability: This material is stable in normal temperature. Possibility of hazardous reactions: May release

toxic fumes. Conditions to avoid: Spark, static electricity and high temperature. Incompatible materials:

Flammable materials and oxidizers. Hazardous decomposition products: Oxycarbides.

Section 11 TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure: Ingestion (swallowing), skin/eye exposure and inhalation.

Symptoms related to the physical, chemical and toxicological characteristics: /

Acute health effects:

Ingestion can be fetal and cause symptoms such as nausea, vomiting and abdominal pain.

Skin contact cause redness and irritation and may cause an allergic skin reaction.

Inhalation cause cough, throat irritation.

Eyes contact can cause redness and irritation.

Chronic health effects: Repeated or prolonged exposure may damage organs.

Numerical measures of toxicity (such as acute toxicity estimates):

Inhalation (rat) LC50: 2.21 mg/1/4h dermal (guinea pig) LD50: 210 mg/kg

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Oral (Rat) LD50:300 mg/kg

Section 12 ECOLOGICAL INFORMATION

Toxicity:						
	Endpoint	Test Duration (hr)	Species	Value		
	EC50 ECIO(ECx)	72h 48h	Algae or other aquatic plants Crustacea	623mg/l 7.2mg/l		
	EC50	48h	Crustacea	164mg/l		
	EC50	96h	Algae or other aquatic plants	720mg/l		
	LC50	96h	Fish	1700mg/l		

Persistence and degradability: Low.

Bioaccumulative potential: Low ((BCF = 2.51)).

Mobility in soil: HIGH (KOC = 1).

Other adverse effects: /

Section 13 DISPOSAL CONSIDERATIONS

Disposal methods: Dispose this product by safe burial. Damaged containers are prohibited from being reused and should be buried in the prescribed place.

Section 14 TRANSPORT INFORMATION

UN number: 2810.

UN proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S.

Transport hazard class(es): 6.1.

Packing group, if applicable: III.

Environmental hazards:/

Special precautions for user: /

Section 15 REGULATORY INFORMATION

Regulations: This safety data sheet is in compliance with the following national standards: GB/T 16483-2008, GB 13690-2009, GB 18218-2018, GB 15258-2009, GB 6944-2012, GB 190-2009, GB/T 191-2008, GB 12268-2012 > GB/T 15098-2008 > GBZ 2.1 • 2019 \cdot GBZ 2.2-2007 as well as the following national regulations: Dangerous Goods Transport Administrative Regulation, Dangerous Chemicals Safety Administrative Regulation.

Section 16 OTHER INFORMATION

References	UN Recommendations on the Transport of Dangerous Goods Model Regulations UN	
	Globally Harmonized System of Classification and Labelling of Chemicals	

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| **Form Date** 22-Sep-2022

Note 1: When products contain two or more hazardous substances, Safety Data Sheets should be prepared based on the risk of the mixture.

Note 2: Manufacturer/supplier should ensure the correctness of the information contained in the safety data sheets, and updated in a timely manner.

Note 3: As a result of product features without the existence of certain information or no data available (such as boiling point does not exist for the solid) in the table with T logo.