

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

# SAFETY DATA SHEET

Version: v1

Revision Date: 2025-09-20

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers

Product name : Ethylene glycol butyl ether  
Product Number : E110823  
Brand : aladdin  
CAS-No. : 111-76-2

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances.

### 1.3 Company

Company : ALADDIN SCIENTIFIC CORPORATION  
Address : 14078 Meridian Parkway,  
Riverside, CA. 92518  
Telephone : +1 (833) 552-7181  
Fax : no data available

### 1.4 Emergency telephone number

CHEMTREC®, Inside the USA : 1-800-424-9300  
CHEMTREC®, Outside the USA :

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquid (category 4), H227

Acute toxicity, oral (category 4), H302

Acute toxicity, inhalation (category 2), H330

Acute toxicity, dermal (category 3), H311

Skin corrosion/irritation (category 2), H315

Serious eye damage/eye irritation (category 2A), H319

### 2.2 GHS Label elements, including precautionary statements

**Pictogram**



**Signal word**

Danger

**Hazard statement(s)**

|      |                               |
|------|-------------------------------|
| H227 | Combustible liquid            |
| H302 | Harmful if swallowed          |
| H311 | Toxic in contact with skin    |
| H315 | Causes skin irritation        |
| H319 | Causes serious eye irritation |
| H330 | Fatal if inhaled              |

**Precautionary statement(s)**

|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P261           | Avoid breathing dust/fume/gas/mist/vapors/spray.                                                                                 |
| P264           | Wash hands [and ...] thoroughly after handling.                                                                                  |
| P270           | Do not eat, drink or smoke when using this product.                                                                              |
| P271           | Use only outdoors or in a well-ventilated area.                                                                                  |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.                                                       |
| P321           | Specific treatment (see ... on this label).                                                                                      |
| P330           | Rinse mouth.                                                                                                                     |
| P302+P352      | IF ON SKIN: wash with plenty of water.                                                                                           |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                                                       |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. |
| P362+P364      | Take off contaminated clothing and wash it before reuse.                                                                         |
| P501           | Dispose of contents/container to an approved waste disposal plant.                                                               |
| P264+P265      | Wash hands [and ...] thoroughly after handling. Do not touch eyes.                                                               |
| P301+P317      | IF SWALLOWED: Get medical help.                                                                                                  |
| P317           | Get emergency medical help.                                                                                                      |
| P337+P317      | If eye irritation persists: Get medical help.                                                                                    |
| P332+P317      | If skin irritation occurs: Get medical help.                                                                                     |

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                  |                                                                                    |
|------------------|------------------------------------------------------------------------------------|
| Synonyms         | : Butyl cellosolve; Ethylene glycol monobutyl ether; 2-Butoxyethanol; Butyl glycol |
| Formula          | : C <sub>6</sub> H <sub>14</sub> O <sub>2</sub>                                    |
| Molecular weight | : 118.17                                                                           |
| CAS No.          | : 111-76-2                                                                         |
| EC-NO.           | : 203-905-0                                                                        |

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| Component                   | Classification                                                                                                                                                                                                                                     | Concentration               |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| Ethylene glycol butyl ether | Flammable liquid category 4; acute toxicity category Category 4; Acute toxicity Category 2; Acute toxicity Sex category 3; skin corrosion/irritation category 2; Serious eye damage/eye irritation Category 2A; H227, H302, H330, H311, H315, H319 | Standard for GC, ≥99.5%(GC) |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General advice

Show this material safety data sheet to the doctor in attendance.

#### If inhaled

After inhalation: fresh air.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### 4.3 Indication of any immediate medical attention and special treatment needed

no data available

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>) foam dry powder

#### Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

### 5.2 Special hazards arising from the substance or mixture

Carbon oxide is combustible. Vapor is heavier than air, so it can spread along the ground. Forms explosive mixtures with air under rapid heating. Hazardous gases or vapors may be generated in the event of a fire.

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

## 5.4 Further information

Use water spray to cool unopened containers.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

### 6.2 Environmental precautions

Do not let product enter drains.

### 6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

### 6.4 Reference to other sections

For disposal see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Operate under a fume hood. Do not inhale the substance/mixture. Avoid generating vapor or smoke. Keep away from open flames, hot surfaces and sources of ignition. Take measures to prevent electrostatic discharge. Change contaminated clothing immediately. Use skin protection lotion. Wash hands and face after using this substance. For preventive measures, see section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool place. Keep the container tightly closed and store in a dry and ventilated place. Moisture sensitive

### 7.3 Specific end use(s)

no data available

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

#### Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under

appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

#### Body Protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type

ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face

supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as

NIOSH (US) or CEN (EU).

#### Control of environmental exposure

If safety requires, prevent further leakage or spillage. Do not let the product enter the sewer.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                 |                               |
|-------------------------------------------------|-------------------------------|
| a) Appearance                                   | form: Liquid color: Colorless |
| b) Odour                                        | no data available             |
| c) Odour Threshold                              | no data available             |
| d) pH                                           | no data available             |
| e) Melting point/freezing point                 | -75°C                         |
| f) Initial boiling point and boiling range      | 171°C                         |
| g) Flash point                                  | 61.1°C                        |
| h) Evaporation rate                             | no data available             |
| i) Flammability (solid, gas)                    | no data available             |
| j) Upper/lower flammability or explosive limits | no data available             |
| k) Vapour pressure                              | no data available             |
| l) Vapour density                               | no data available             |
| m) Relative density                             | no data available             |
| n) Water solubility                             | no data available             |
| o) Partition coefficient: n-octanol/water       | no data available             |

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|                              |                   |
|------------------------------|-------------------|
| p) Auto-ignition temperature | no data available |
| q) Decomposition temperature | no data available |
| r) Viscosity                 | no data available |
| s) Explosive properties N    | no data available |
| t) Oxidizing properties N    | no data available |

## 9.2 Other safety information

no data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

May react violently with it: strong oxidizer, hazardous gas or hazardous fumes when contacted with the items on the right: aluminum

### 10.4 Conditions to avoid

Strong heating

### 10.5 Incompatible materials

Strong oxidants, alcohols

### 10.6 Hazardous decomposition products

no data available

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Acute toxicity

LD50 Oral-Guinea Pig-Male and Female-1,414 mg/kg

(OECD Test Guideline 401)

Remarks: Classification according to EU CLP Regulation 1272/2008, Annex 6 (Table 3.1/3.2)

Acute toxicity estimate Inhalation-11.1 mg/l

(Expert Opinion)

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Remarks: (Appendix VI to Regulation 1272/2008 of the European Communities (EC)),

LD50 percutaneous-guinea pig-male and female-> 2,000 mg/kg

(OECD Test Guideline 402)

Remarks: (ECHA)

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitisation**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

no data available

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**Additional Information**

Repeated exposure toxicity-rat-male-oral-90 days-no harmful effect observed-<69 mg/kg

Repeated exposure toxicity-rabbit-male and female-percutaneous-90 d-no harmful effect observed-> 150 mg/kg

Registration of Toxic Effects of Chemical Substances: KJ8575000

Human exposure to doses exceeding 200ppm may be expected to produce anesthesia, kidney and liver damage, showing abnormal blood patterns, such as red blood cell reduction, net

Symptomatic erythrocytosis, neutrophils, and leukocytosis may cause red blood cell fragility and hematuria. Produced by swallowing 2-butoxyethanol

The sour taste turns into a burning sensation, followed by numbness of the tongue, indicating that the sensory nerve endings are numb. , Central nervous system depression, headache, anesthesia

As far as we know, the chemical, physical and toxic properties have not been fully studied.

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## SECTION 12: Ecological information

### 12.1 Toxicity

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## 12.2 Persistence and degradability

no data available

## 12.3 Bioaccumulative potential

no data available

## 12.4 Mobility in soil

no data available

## 12.5 Results of PBT and vPvB assessment

no data available

## 12.6 Other adverse effects

no data available

## SECTION 13:

### 13.1 Disposal considerations

#### Product

ecycle to process, if possible. Consult your local regional authorities and an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur. Observe all federal, state and local regulations when disposing of the substance.

#### Contaminated packaging

Dispose of as unused product.

## SECTION 14: Transport information

### DOT (US)

UN number: 2810

Packing group: III

Class: 6.1

Proper shipping name: Organic toxic liquid, not otherwise specified (2-butoxyethanol)

Reportable Quantity(RQ): no data available

Poison Inhalation Hazard: no data available

Environmental Hazards: No

### IMDG

UN number: 2810

Packing group: III

EMS-No: no data available

Proper shipping name: Organic toxic liquid, not otherwise specified (2-butoxyethanol)

### IATA

UN number: 2810

Packing group: III

Class: 6.1

Proper shipping name: Organic toxic liquid, not otherwise specified (2-butoxyethanol)

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### SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### SECTION 16: Other information

|                  |                                                                                                                                                     |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Prepared By      | Regulatory Affairs<br>ALADDIN SCIENTIFIC CORPORATION<br>Email: <a href="mailto:QualityAssurance@aladdinsci.com">QualityAssurance@aladdinsci.com</a> |
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| Revision Summary | SDS sections updated v1                                                                                                                             |

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