

# SAFETY DATA SHEET

Version: v1

Revision Date: 2025-09-18

Print Date: 2025-09-24

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

### 1.1 Product identifiers

Product name : 2-Ethoxyethyl acetate  
Product Number : E105184  
Brand : aladdin  
CAS-No. : 111-15-9

### 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 liquids (Category 3), H226

Acute toxicity, Oral (Category 4), H302

Acute toxicity, Inhalation (Category 4), H332

Acute toxicity, Dermal (Category 4), H312

Reproductive toxicity (Category 1B), H360

Short-term (acute) aquatic hazard (Category 3), H402

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2 GHS Label elements, including precautionary statements

Phone: +1 (833) 552-7181 Email: QualityAssurance@aladdinsci.com Website: <https://www.aladdinsci.com/>

**Pictogram**



Danger

**Signal word**

**Hazard statement(s)**

|        |                                                   |
|--------|---------------------------------------------------|
| H226   | Flammable liquid and vapor                        |
| H302   | Harmful if swallowed                              |
| H312   | Harmful in contact with skin                      |
| H332   | Harmful if inhaled                                |
| H360FD | May damage fertility; May damage the unborn child |

**Precautionary statement(s)**

|                |                                                                                                          |
|----------------|----------------------------------------------------------------------------------------------------------|
| P210           | Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking.          |
| P233           | Keep container tightly closed.                                                                           |
| P240           | Ground/bond container and receiving equipment.                                                           |
| P241           | Use explosion-proof [electrical/ventilating/lighting/.../] equipment.                                    |
| P242           | Use only non-sparking tools.                                                                             |
| P243           | Take precautionary measures against static discharge.                                                    |
| 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.                                                                   |
| P303+P361+P353 | IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower]. |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                               |
| P362+P364      | Take off contaminated clothing and wash it before reuse.                                                 |
| P370+P378      | In case of fire: Use ... to extinguish.                                                                  |
| P405           | Store locked up.                                                                                         |
| P403+P235      | Store in a well-ventilated place. Keep cool.                                                             |
| P501           | Dispose of contents/container to an approved waste disposal plant.                                       |
| P203           | Obtain, read and follow all safety instructions before use.                                              |
| P301+P317      | IF SWALLOWED: Get medical help.                                                                          |
| P318           | if exposed or concerned, get medical advice.                                                             |
| P317           | Get emergency medical help.                                                                              |

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

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                  |                                                                                                                                                                    |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Synonyms         | : Acetic Acid 2-Ethoxyethyl Ester; Cellosolve Acetate; Ethylene Glycol Monoethyl Ether Acetate; Ethyl Glycol Acetate; 1-Acetoxy-2-ethoxyethane; Cellosolve acetate |
| Formula          | : C <sub>6</sub> H <sub>12</sub> O <sub>3</sub>                                                                                                                    |
| Molecular weight | : 132.16                                                                                                                                                           |
| CAS No.          | : 111-15-9                                                                                                                                                         |
| EC-NO.           | : 203-839-2                                                                                                                                                        |

| Component             | Classification                                                                                                                                                               | Concentration |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 2-Ethoxyethyl acetate | Flammable liquids Category 3; Acute toxicity Category 4; Reproductive toxicity Category 1B; Short-term (acute) aquatic hazard Category 3; H226, H302, H332, H312, H360, H402 | ≥99%          |

## 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

If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

#### If swallowed

After swallowing: immediately make victim drink water (two glasses at most). 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

Foam Carbon dioxide (CO<sub>2</sub>) Dry powder

#### Unsuitable extinguishing media

no data available

## 5.2 Special hazards arising from the substance or mixture

Carbon oxides Combustible. Vapors are heavier than air and may spread along floors. Risk of dust explosion. Forms explosive mixtures with air at elevated temperatures. Development of hazardous combustion gases or vapours possible in the event of fire.

## 5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

## 5.4 Further information

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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## SECTION 6: Accidental release measures

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

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. 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. Risk of explosion.

### 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). Dispose of properly. Clean up affected area.

### 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

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge. Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.

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

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorized persons.

### 7.3 Specific end use(s)

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no data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Hazard composition and occupational exposure limits

| Component             | CAS No.  | Value  | Control parameters   | Basis                                                                 |
|-----------------------|----------|--------|----------------------|-----------------------------------------------------------------------|
| 2-Ethoxyethyl acetate | 111-15-9 | PC-TWA | 30 mg/m <sup>3</sup> | Occupational exposure limits for workplace hazards - chemical hazards |
|                       | Note     | Skin   |                      |                                                                       |

Biological limits

| Component             | CAS No.  | parameters                                     | Value              | Biological specimens | Basis                           |
|-----------------------|----------|------------------------------------------------|--------------------|----------------------|---------------------------------|
| 2-Ethoxyethyl acetate | 111-15-9 | 2-Ethoxyethyl acetate                          | 100mg/g creatinine | urine                | ACGIH - biological limits (BEI) |
|                       | Note     | At the end of the last working day of the week |                    |                      |                                 |

### 8.2 Exposure controls

#### Appropriate engineering controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

#### Personal protective equipment

##### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

##### 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**

Flame retardant antistatic protective clothing.

**Respiratory protection**

required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

**Control of environmental exposure**

Do not let product enter drains. Risk of explosion.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                 |                                                                                 |
|-------------------------------------------------|---------------------------------------------------------------------------------|
| a) Appearance                                   | form: liquid color: Colorless to Yellow                                         |
| b) Odour                                        | no data available                                                               |
| c) Odour Threshold                              | no data available                                                               |
| d) pH                                           | no data available                                                               |
| e) Melting point/freezing point                 | -61°C                                                                           |
| f) Initial boiling point and boiling range      | 156°C                                                                           |
| g) Flash point                                  | 51°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                             | 0.97                                                                            |
| n) Water solubility                             | Slightly soluble in water, miscible in most organic solvents such as aromatics. |
| o) Partition coefficient: n-octanol/water       | no data available                                                               |
| 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

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

no data available

## 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

## 10.3 Possibility of hazardous reactions

Exothermic reaction with: Oxidizing agents Bases acids Risk of ignition or formation of inflammable gases or vapours  
with: Aluminum Release of: Hydrogen

## 10.4 Conditions to avoid

Heating.

## 10.5 Incompatible materials

Aluminum, Strong oxidizing agents

## 10.6 Hazardous decomposition products

In the event of fire: see section 5

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rabbit - 1,950 mg/kg

Remarks: (RTECS)

Acute toxicity estimate Inhalation - 4 h - 11 mg/l - vapor

(Expert judgment)

Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Acute toxicity estimate Dermal - 1,100 mg/kg

(Expert judgment)

Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

#### 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

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**Reproductive toxicity**

May damage the unborn child. May damage fertility.

**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**

RTECS: KK8225000

Nausea, Headache, Vomiting

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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**SECTION 12: Ecological information****12.1 Toxicity**

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 40.7 - 43.6 mg/l -

96 h

Toxicity to daphnia

and other aquatic

invertebrates

EC50 - Daphnia magna (Water flea) - 193.6 mg/l - 48 h

Toxicity to algae EC50 - Desmodesmus subspicatus (green algae) - &gt; 1,000 mg/l - 72h

Toxicity to bacteria EC10 - Pseudomonas putida - 435 mg/l - 16 h

(DIN 38412)

**12.2 Persistence and degradability**

Biodegradability Result: 97 % - Readily biodegradable. (OECD Test Guideline 301E) Biochemical Oxygen Demand (BOD) < 440 mg/g Remarks: (IUCLID)

**12.3 Bioaccumulative potential**

no data available

**12.4 Mobility in soil**

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no data available

**12.5 Results of PBT and vPvB assessment**

no data available

**12.6 Other adverse effects**

Avoid release to the environment.

**SECTION 13:**

**13.1 Disposal considerations**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

no data available

**SECTION 14: Transport information**

**DOT (US)**

|                                                               |                                            |                                             |
|---------------------------------------------------------------|--------------------------------------------|---------------------------------------------|
| UN number: 1172                                               | Packing group: III                         | Class: 3                                    |
| Proper shipping name: ETHYLENE GLYCOL MONOETHYL ETHER ACETATE | Reportable Quantity(RQ): no data available | Poison Inhalation Hazard: no data available |
| Environmental Hazards: no                                     |                                            |                                             |

**IMDG**

|                                                               |                    |                           |
|---------------------------------------------------------------|--------------------|---------------------------|
| UN number: 1172                                               | Packing group: III | EMS-No: no data available |
| Proper shipping name: ETHYLENE GLYCOL MONOETHYL ETHER ACETATE |                    |                           |

**IATA**

|                                                               |                    |          |
|---------------------------------------------------------------|--------------------|----------|
| UN number: 1172                                               | Packing group: III | Class: 3 |
| Proper shipping name: ETHYLENE GLYCOL MONOETHYL ETHER ACETATE |                    |          |

**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> |
| Creation Date | 12-Dec-2023                                                                                                                                         |
| Revision Date | 18-Sep-2025                                                                                                                                         |
| Print Date    | 24-Sep-2025                                                                                                                                         |

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**Revision Summary**

SDS sections updated v1

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