

# SAFETY DATA SHEET

Version: v1

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

### 1.1 Product identifiers

Product name : 2-Ethoxyethanol  
Product Number : E110821  
Brand : aladdin  
CAS-No. : 110-80-5

### 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 3), H331

Reproductive toxicity (Category 1B), H360FD

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

### 2.2 GHS Label elements, including precautionary statements

Pictogram



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| Signal word                       | Danger                                                                                                   |
|-----------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Hazard statement(s)</b>        |                                                                                                          |
| H226                              | Flammable liquid and vapor                                                                               |
| H302                              | Harmful if swallowed                                                                                     |
| H313                              | May be harmful in contact with skin                                                                      |
| H331                              | Toxic if inhaled                                                                                         |
| H360                              | May damage fertility or the unborn child                                                                 |
| <b>Precautionary statement(s)</b> |                                                                                                          |
| 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.                                                                                             |
| 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.                               |
| P370+P378                         | In case of fire: Use ... to extinguish.                                                                  |
| P405                              | Store locked up.                                                                                         |
| P403+P233                         | Store in a well-ventilated place. Keep container tightly closed.                                         |
| 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.                                                             |
| P316                              | Get emergency medical help immediately.                                                                  |

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

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|          |                                                             |
|----------|-------------------------------------------------------------|
| Synonyms | : Ethyl glycol Ethyl cellosolve Ethylene glycol ethyl ether |
| Formula  | : C4H10O2                                                   |

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Molecular weight : 90.12  
CAS No. : 110-80-5  
EC-NO. : 203-804-1

| Component       | Classification                                                               | Concentration               |
|-----------------|------------------------------------------------------------------------------|-----------------------------|
| 2-Ethoxyethanol | Flam. Liq. 3; Acute Tox. 4; Acute Tox. 3; Repr. 1B; H226, H302, H331, H360FD | Standard for GC, ≥99.5%(GC) |

**SECTION 4: First aid measures****4.1 Description of first aid measures****General advice**

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

**If inhaled**

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

**In case of skin contact**

Wash off with soap and plenty of water. Take victim immediately to hospital. 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**

Dry powder Dry sand

**Unsuitable extinguishing media**

Do NOT use water jet.

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

Carbon oxides Combustible.

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

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## 5.4 Further information

Use water spray to cool unopened containers.

## SECTION 6: Accidental release measures

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

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### 6.4 Reference to other sections

For disposal see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. 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. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place. Moisture sensitive , Dry storage.

### 7.3 Specific end use(s)

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 |
|-----------|---------|-------|--------------------|-------|
|           |         |       |                    |       |

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|                 |          |         |          |                                                                       |
|-----------------|----------|---------|----------|-----------------------------------------------------------------------|
| 2-Ethoxyethanol | 110-80-5 | PC-TWA  | 18 mg/m3 | Occupational exposure limits for workplace hazards - chemical hazards |
|                 | Note     | Skin    |          |                                                                       |
|                 |          | PC-STEL | 36 mg/m3 | Occupational exposure limits for workplace hazards - chemical hazards |
|                 |          | Skin    |          |                                                                       |

## Biological limits

| Component       | CAS No.  | parameters                                     | Value              | Biological specimens | Basis                          |
|-----------------|----------|------------------------------------------------|--------------------|----------------------|--------------------------------|
| 2-Ethoxyethanol | 110-80-5 | 2-ethoxyacetic acid                            | 100mg/g creatinine | urine                | ACGIH - biological limit (BEI) |
|                 | Note     | At the end of the last working day of the week |                    |                      |                                |

**8.2 Exposure controls****Appropriate engineering controls**

Avoid contact with skin, eyes and clothing. Wash hands immediately before rest and after handling this product.

**Personal protective equipment****Eye/face protection**

Face shield and safety glasses 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**

Complete suit protecting against chemicals, Flame retardant antistatic protective 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**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                 |                                                                                           |
|-------------------------------------------------|-------------------------------------------------------------------------------------------|
| a) Appearance                                   | no data available                                                                         |
| b) Odour                                        | no data available                                                                         |
| c) Odour Threshold                              | no data available                                                                         |
| d) pH                                           | no data available                                                                         |
| e) Melting point/freezing point                 | -100-135°C                                                                                |
| f) Initial boiling point and boiling range      | 135°C                                                                                     |
| g) Flash point                                  | 49°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                             | 0.93                                                                                      |
| n) Water solubility                             | It is miscible with water and can be miscible with most organic solvents such as alcohol. |
| 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

Stable under recommended storage conditions.

## 10.3 Possibility of hazardous reactions

no data available

## 10.4 Conditions to avoid

Heat, flames and sparks.

## 10.5 Incompatible materials

Oxidizing agents, Copper

## 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 - Guinea pig - male and female - 1.400 mg/kg Remarks: (Regulation (EC) No 1272/2008, Annex VI) (ECHA)

LC50 Inhalation - Rat - female - 4 h - 14,72 mg/l (Calculation method) Remarks: (ECHA) (Regulation (EC) No

1272/2008, Annex VI) LD50 Dermal - Rabbit - male - 3.271 mg/kg Remarks: (ECHA)

### Skin corrosion/irritation

Skin - Rabbit Result: No skin irritation - 4 h (OECD Test Guideline 404)

### Serious eye damage/eye irritation

Eyes - Rabbit Result: slight irritation - 1 h (Draize Test)

### Respiratory or skin sensitisation

Maximization Test - Guinea pig Result: negative (OECD Test Guideline 406)

### Germ cell mutagenicity

Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Result: negative Remarks: (National Toxicology Program) Test Type: In vitro mammalian cell gene mutation test Test system: Mouse lymphoma test Metabolic activation: with and without metabolic activation Result: Positive results were obtained in some in vitro tests. Remarks: (National Toxicology Program) Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: positive Remarks: (National Toxicology Program) Test Type: In vivo micronucleus test Species: Mouse Cell type: Bone marrow Application Route: Intraperitoneal injection Result: negative Remarks: (ECHA)

### Carcinogenicity

no data available

### Reproductive toxicity

May damage the unborn child. May damage fertility.

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**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: KK8050000 Acute symptoms of overexposure include:, narcosis, Liver injury may occur., Kidney injury may occur. 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 static test LC50 - *Lepomis macrochirus* (Bluegill sunfish) - > 10.000 mg/l - 96 h Remarks: (ECHA)

Toxicity to daphnia and other aquatic EC50 - *Daphnia* - 1.892,52 mg/l - 48 h Remarks: (ECOTOX

Database) invertebrates Toxicity to algae static test NOEC - *Desmodesmus subspicatus* (green algae) - >= 1.000 mg/l - 72 h Remarks: (ECHA)

**12.2 Persistence and degradability**

Biodegradability aerobic - Exposure time 14 d Result: 63 - 83 % - Readily biodegradable. (OECD Test Guideline 301C)

Biochemical Oxygen Demand (BOD) 1.100 mg/g Remarks: (IUCLID) Chemical Oxygen Demand (COD) 1.890 mg/g

Remarks: (IUCLID) Theoretical oxygen demand 1.950 mg/g Remarks: (IUCLID)

**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

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**SECTION 13:****13.1 Disposal considerations****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

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**Contaminated packaging**  
 Dispose of as unused product.

**SECTION 14: Transport information**

|                                                       |                                            |                                             |
|-------------------------------------------------------|--------------------------------------------|---------------------------------------------|
| <b>DOT (US)</b>                                       |                                            |                                             |
| UN number: 1171                                       | Packing group: III                         | Class: 3                                    |
| Proper shipping name: ETHYLENE GLYCOL MONOETHYL ETHER | Reportable Quantity(RQ): no data available | Poison Inhalation Hazard: no data available |
| Environmental Hazards: no                             |                                            |                                             |
| <b>IMDG</b>                                           |                                            |                                             |
| UN number: 1171                                       | Packing group: III                         | EMS-No: no data available                   |
| Proper shipping name: ETHYLENE GLYCOL MONOETHYL ETHER |                                            |                                             |
| <b>IATA</b>                                           |                                            |                                             |
| UN number: 1171                                       | Packing group: III                         | Class: 3                                    |
| Proper shipping name: ETHYLENE GLYCOL MONOETHYL ETHER |                                            |                                             |

**SECTION 15: Regulatory information**

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

**SECTION 16: Other information**

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

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