

# **SAFETY DATA SHEET**

Version 6.7 Revision Date 10/27/2023 Print Date 05/12/2024

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

### **1.1 Product identifiers**

| Product name                       | : | (R)- $(-)$ -2-Amino-1-propanol  |
|------------------------------------|---|---------------------------------|
| Product Number<br>Brand<br>CAS-No. | : | 297682<br>Aldrich<br>35320-23-1 |

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

Identified uses : Laboratory chemicals, Synthesis of substances

### **1.3** Details of the supplier of the safety data sheet

| Company          | : Sigma-Aldrich Inc.<br>3050 SPRUCE ST<br>ST. LOUIS MO 63103<br>UNITED STATES |
|------------------|---|
| Telephone<br>Fax | : +1 314 771-5765<br>: +1 800 325-5052  |
|                  |   |

### 1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

# **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 4), H227 Skin corrosion (Category 1B), H314 Serious eye damage (Category 1), H318

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

### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word Aldrich - 297682 Danger

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| Hazard statement(s)<br>H227<br>H314 | Combustible liquid.<br>Causes severe skin burns and eye damage.  |
|-------------------------------------|--|
| Precautionary statement(s)<br>P210  | Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  |
| P264<br>P280                        | Wash skin thoroughly after handling.<br>Wear protective gloves/ protective clothing/ eye protection/ face<br>protection.   |
| P301 + P330 + P331                  | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.   |
| P303 + P361 + P353                  | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.   |
| P304 + P340 + P310                  | IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.   |
| P305 + P351 + P338 +<br>P310        | IF IN EYES: Rinse cautiously with water for several minutes.<br>Remove contact lenses, if present and easy to do. Continue<br>rinsing. Immediately call a POISON CENTER/ doctor. |
| P363                                | Wash contaminated clothing before reuse.   |
| P370 + P378                         | In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.   |
| P403 + P235                         | Store in a well-ventilated place. Keep cool.   |
| P405                                | Store locked up.   |
| P501                                | Dispose of contents/ container to an approved waste disposal plant.  |

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

## SECTION 3: Composition/information on ingredients

| 3.1 | <b>Substances</b><br>Synonyms                    | : | D-Alaninol  |
|-----|--|---|---|
|     | Formula<br>Molecular weight<br>CAS-No.<br>EC-No. | : | C₃H <sub>9</sub> NO<br>75.11 g/mol<br>35320-23-1<br>629-219-5 |

| Component                  | Classification  | Concentration |
|----------------------------|---|---------------|
| (R)-(-)-2-Amino-1-propanol |   |               |
|                            | Flam. Liq. 4; Skin Corr.<br>1B; Eye Dam. 1; H227,<br>H314, H318 | <= 100 %      |

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

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## **SECTION 4: First aid measures**

## 4.1 Description of first-aid measures

### **General advice**

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

### If inhaled

After inhalation: fresh air. Call in physician.

### In case of skin contact

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

### In case of eye contact

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

### If swallowed

After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.

- **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 (CO2) 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 oxides Nitrogen oxides (NOx) Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. 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. Suppress (knock down) gases/vapors/mists with a water spray jet. 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.
- 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 with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.
- **6.4** Reference to other sections For disposal see section 13.

### **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

### Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

#### **Hygiene measures**

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

#### Storage conditions

Tightly closed. Keep locked up or in an area accessible only to qualified or authorized persons.

Air sensitive.

#### Storage class

Storage class (TRGS 510): 8A: Combustible, corrosive hazardous materials

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

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## 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). Tightly fitting safety goggles

# Skin protection

required

# **Body Protection**

protective clothing

# Respiratory protection

Recommended Filter type: Filter type ABEK

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

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.

# SECTION 9: Physical and chemical properties

# 9.1 Information on basic physical and chemical properties

| a) | Appearance                                 | Form: clear, liquid<br>Color: colorless          |
|----|--|--|
| b) | Odor                                       | No data available                                |
| c) | Odor Threshold                             | No data available                                |
| d) | рН   | No data available                                |
| e) | Melting<br>point/freezing point            | Melting point/range: 173 - 175 °C (343 - 347 °F) |
| f) | Initial boiling point<br>and boiling range | 166 - 168 °C 331 - 334 °F - lit.                 |
| g) | Flash point                                | 83 °C (181 °F) - closed cup                      |
| h) | Evaporation rate                           | No data available                                |
| i) | Flammability (solid,<br>gas)               | No data available                                |

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| j) | Upper/lower<br>flammability or<br>explosive limits | No data available                   |
|----|--|-------------------------------------|
| k) | Vapor pressure                                     | No data available                   |
| I) | Vapor density                                      | No data available                   |
| m) | Density  | 0.963 g/cm3 at 20 °C (68 °F) - lit. |
|    | Relative density                                   | No data available                   |
| n) | Water solubility                                   | No data available                   |
| o) | Partition coefficient:<br>n-octanol/water          | No data available                   |
| p) | Autoignition<br>temperature                        | No data available                   |
| q) | Decomposition<br>temperature                       | No data available                   |
| r) | Viscosity  | No data available                   |
| s) | Explosive properties                               | No data available                   |
| t) | Oxidizing properties                               | none                                |

### **9.2 Other safety information** No data available

### **SECTION 10: Stability and reactivity**

#### **10.1 Reactivity**

Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.

### **10.2** Chemical stability

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

## **10.3** Possibility of hazardous reactions

Violent reactions possible with: Strong acids Strong oxidizing agents

- **10.4 Conditions to avoid** Strong heating.
- **10.5 Incompatible materials** No data available
- **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

Oral: No data available Inhalation: No data available Dermal: No data available

## Skin corrosion/irritation

Remarks: Causes skin burns.

#### **Serious eye damage/eye irritation** Remarks: Causes serious eye damage.

## **Respiratory or skin sensitization**

No data available

Germ cell mutagenicity

No data available

### Carcinogenicity

- IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

### **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

## **11.2 Additional Information**

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

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

No data available

12.2 Persistence and degradability No data available

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### **12.3 Bioaccumulative potential** No data available

**12.4 Mobility in soil** No data available

### **12.5** Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

- **12.6 Endocrine disrupting properties** No data available
- 12.7 Other adverse effects

No data available

## SECTION 13: Disposal considerations

## **13.1** Waste treatment methods

### Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

## **SECTION 14: Transport information**

### DOT (US)

UN number: 2735 Class: 8 Packing group: II Proper shipping name: Amines, liquid, corrosive, n.o.s. ((R)-(-)-2-Amino-1-propanol) Reportable Quantity (RQ): Poison Inhalation Hazard: No

### IMDG

UN number: 2735 Class: 8 Packing group: II EMS-No: F-A, S-B Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. ((R)-(-)-2-Amino-1-propanol)

### ΙΑΤΑ

UN number: 2735 Class: 8 Packing group: II Proper shipping name: Amines, liquid, corrosive, n.o.s. ((R)-(-)-2-Amino-1-propanol)

## **SECTION 15: Regulatory information**

### SARA 302 Components

This material does not contain any components with a section 302 EHS TPQ.

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## SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

## Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

## **SECTION 16: Other information**

### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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