

## Chemical Safety Data Sheet MSDS / SDS

**2-Amino-2-ethyl-1,3-propanediol**

Revision Date:2026-05-31 Revision Number:1

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****Product identifier**

Product name : 2-Amino-2-ethyl-1,3-propanediol  
CBnumber : CB9408858  
CAS : 115-70-8  
EINECS Number : 204-101-2  
Synonyms : AEPD,2-amino-2-ethyl-1,3-propanediol

**Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses : For R&D use only. Not for medicinal, household or other use.  
Uses advised against : none

**Company Identification**

Company : Chemicalbook  
Address : Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing  
Telephone : 010-86108875

**SECTION 2: Hazards identification****GHS Label elements, including precautionary statements**

Symbol(GHS)



Signal word

Warning

**Precautionary statements**

P337+P313 IF eye irritation persists: Get medical advice/attention.  
P332+P313 IF SKIN irritation occurs: Get medical advice/attention.  
P321 Specific treatment (see ... on this label).  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continuerinsing.  
P501 Dispose of contents/container to.....  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P273 Avoid release to the environment.  
P264 Wash skin thouroughly after handling.

**Hazard statements**

H402 Harmful to aquatic life  
H319 Causes serious eye irritation  
H315 Causes skin irritation

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## SECTION 3: Composition/information on ingredients

### Substance

|              |                                                  |
|--------------|--------------------------------------------------|
| Product name | : 2-Amino-2-ethyl-1,3-propanediol                |
| Synonyms     | : AEPD, 2-amino-2-ethyl-1,3-propanediol          |
| CAS          | : 115-70-8                                       |
| EC number    | : 204-101-2                                      |
| MF           | : C <sub>5</sub> H <sub>13</sub> NO <sub>2</sub> |
| MW           | : 119.16                                         |

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## SECTION 4: First aid measures

### General Advice

If symptoms persist, call a physician.

### Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

### Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

### Inhalation

Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

### Ingestion

Clean mouth with water and drink afterwards plenty of water.

### Most important symptoms and effects

Causes eye burns. Causes severe eye damage.

### Self-Protection of the First Aider

Use personal protective equipment as required.

### Notes to Physician

Treat symptomatically.

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## SECTION 5: Firefighting measures

## Extinguishing media which must not be used for safety reasons

No information available.

| Suitable     | Extinguishing Media | Extinguishing Media | Extinguishing Media | Extinguishing Media | Extinguishing Media | Extinguishing Media |
|--------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Water spray, | carbon dioxide      | (CO2),              | dry chemical,       | alcohol-resistant   | foam.               |                     |

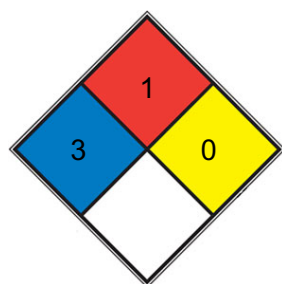
## Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors.

## Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## NFPA 704



**HEALTH 3** Short exposure could cause serious temporary or moderate residual injury (e.g. [liquid hydrogen](#), [sulfuric acid](#), [calcium hypochlorite](#), hexafluorosilicic acid)

**FIRE 1** Materials that require considerable preheating, under all ambient temperature conditions, before ignition and combustion can occur. Includes some finely divided suspended solids that do not require heating before ignition can occur. Flash point at or above 93.3 °C (200 °F). (e.g. [mineral oil](#), ammonia)

**REACT 0** Normally stable, even under fire exposure conditions, and is not reactive with water (e.g. helium, [N2](#))

**SPEC.**

**HAZ.**

## SECTION 6: Accidental release measures

### Personal Precautions

Ensure adequate ventilation. Use personal protective equipment as required.

### Environmental Precautions

Should not be released into the environment. See Section 12 for additional Ecological Information.

### Methods for Containment and Clean Up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

Refer to protective measures listed in Sections 8 and 13.

## SECTION 7: Handling and storage

## Handling

Do not get in eyes, on skin, or on clothing. Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ingestion and inhalation.

## Storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

## Specific Use(s)

Use in laboratories

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## SECTION 8: Exposure controls/personal protection

### desc\_info

|                 |                                   |                                      |             |                       |
|-----------------|-----------------------------------|--------------------------------------|-------------|-----------------------|
| Eye Protection  |                                   | Goggles (European standard - EN 166) |             |                       |
| Hand Protection |                                   | Protective gloves                    |             |                       |
| Glove material  | Breakthrough time Glove thickness |                                      | EU standard | Glove comments        |
| Nitrile rubber  | See manufacturers                 |                                      | EN 374      | (minimum requirement) |
| Neoprene        | recommendations                   |                                      |             |                       |

|                                 |                                                                                     |   |
|---------------------------------|-------------------------------------------------------------------------------------|---|
| Natural rubber                  |                                                                                     | - |
| Skin and body protection        | Long sleeved clothing                                                               |   |
| Respiratory Protection          | When workers are facing concentrations above the exposure limit they must use       |   |
| Large scale/emergency use       | Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits |   |
| Small scale/Laboratory use      | Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure   |   |
| Hygiene Measures                | Handle in accordance with good industrial hygiene and safety practice.              |   |
| Environmental exposure controls | No information available.                                                           |   |

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## SECTION 9: Physical and chemical properties

### Information on basic physicochemical properties

Light yellow

### Physical State

Viscous liquid Liquid

### Odor

Amine compounds

### Odor Threshold

No data available

### pH

10.8 0.1M aq.sol

**Melting Point/Range**

35.00 - 38.00 °C / 95 - 100.4 °F

**Softening Point**

No data available

**Boiling Point/Range**

152 - 153 °C / 305.6 - 307.4 °F @ 10 mmHg

**Flash Point**

> 110 °C / > 230 °F Method - No information available

**Evaporation Rate**

No data available

**Flammability (solid,gas)**

Not applicable Liquid

**Explosion Limits**

No data available

**Vapor Pressure**

<1 hPa (20°C)

**Vapor Density**

No data available (Air = 1.0)

**Specific Gravity / Density**

1.099

**Bulk Density**

Not applicable Liquid

**Water Solubility**

Soluble

**Solubility in other solvents**

No information available

**Partition Coefficient (n-octanol/water)**

No data available

**Autoignition Temperature**

No data available

### **Decomposition Temperature**

No data available

### **Viscosity**

No data available

### **Explosive Properties**

No information available

### **Oxidizing Properties**

No information available

### **Molecular Formula**

C<sub>5</sub> H<sub>13</sub> N O<sub>2</sub>

### **Molecular Weight**

119.16

### **Colour**

Clear yellow

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## SECTION 10: Stability and reactivity

### **Stability**

Stable under normal conditions.

### **Hazardous Reactions**

None under normal processing.

### **Hazardous Polymerization**

Hazardous polymerization does not occur.

### **Conditions to Avoid**

Incompatible products. Excess heat.

### **Materials to avoid**

Strong oxidizing agents. Strong acids. Metals. copper.

### **Hazardous Decomposition Products**

Nitrogen oxides (NO<sub>x</sub>). Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Ammonia.

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## SECTION 11: Toxicological information

## Product Information

### (a) acute toxicity;

| Component                       | LD50 Oral           | LD50 Dermal                  | LC50 Inhalation |
|---------------------------------|---------------------|------------------------------|-----------------|
| 2-Amino-2-ethyl-1,3-propanediol | 4200 mg/kg ( R at ) | LD50 > 2000 mg/kg ( Rabbit ) |                 |

### (b) skin corrosion/irritation;

No data available

### (c) serious eye damage/irritation;

Category 1

### (d) respiratory or skin sensitization;

#### Respiratory

No data available

#### Skin

No data available

No information available

### (e) germ cell mutagenicity;

No data available

### (f) carcinogenicity;

No data available

There are no known carcinogenic chemicals in this product

### (g) reproductive toxicity;

No data available

### (h) STOT-single exposure;

No data available

### (i) STOT-repeated exposure;

No data available

#### Target Organs

No information available.

### (j) aspiration hazard;

No data available

### Symptoms / effects, both acute and delayed

No information available

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## SECTION 12: Ecological information

### **Ecotoxicity effects**

Do not empty into drains.

### **Persistence and Degradability**

#### **Persistence**

Soluble in water, Persistence is unlikely, based on information available.

#### **Bioaccumulative Potential**

Bioaccumulation is unlikely

#### **Mobility in soil**

The product is water soluble, and may spread in water systems Will likely be mobile in the environment due to its water solubility Highly mobile in soils

### **Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors

### **Persistent Organic Pollutant**

This product does not contain any known or suspected substance

### **Ozone Depletion Potential**

This product does not contain any known or suspected substance

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## **SECTION 13: Disposal considerations**

### **Waste from Residues/Unused Products**

Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.

### **Contaminated Packaging**

Dispose of this container to hazardous or special waste collection point.

### **Other Information**

Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains. Do not flush to sewer.

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## **SECTION 14: Transport information**

### **Road and Rail Transport**

Not Regulated

### **IMDG/IMO**

Not regulated

## IATA

Not regulated

## Special Precautions for User

No special precautions required

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## SECTION 15: Regulatory information

### International Inventories

X = listed, China (IECSC), Europe (EINECS/ELINCS/NLP), U.S.A. (TSCA), Canada (DSL/NDSL), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), Korea (KECL).

| Component              | The Inventory of Hazardous Chemicals (2015 Edition) | List of dangerous goods GB 12268 - 2012 | TCSI | IECSC | EINECS    | TSCA | DSL | PICCS | ENCS | ISHL | AICS | KECL        |
|------------------------|-----------------------------------------------------|-----------------------------------------|------|-------|-----------|------|-----|-------|------|------|------|-------------|
| 2-Amino-2-ethyl-1,3-pr | -                                                   | -                                       | X    | X     | 204-101-2 | X    | X   | X     | X    |      | X    | 2010-3-4295 |

|          |             |        |
|----------|-------------|--------|
|          | opa         | nediol |
| National | Regulations |        |

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## SECTION 16: Other information

### Prepared By

Health, Safety and Environmental Department

### Creation Date

26-Sep-2009

### Revision Date

10-Sep-2025

### Revision Summary

Not applicable.

### Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene. Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

## **Legend**

### **CAS**

Chemical Abstracts Service

### **TSCA**

United States Toxic Substances Control Act Section 8(b)

Inventory

### **EINECS/ELINCS**

European Inventory of Existing Commercial Chemical

Substances/EU List of Notified Chemical Substances

### **DSL/NDSL**

Canadian Domestic Substances List/Non-Domestic

Substances List

### **PICCS**

Philippines Inventory of Chemicals and Chemical Substances

### **ENCS**

Japanese Existing and New Chemical Substances

### **IECSC**

Chinese Inventory of Existing Chemical Substances

### **AICS**

Australian Inventory of Chemical Substances

### **KECL**

Korean Existing and Evaluated Chemical Substances

### **NZIoC**

New Zealand Inventory of Chemicals

### **WEL**

Workplace Exposure Limit

### **TWA**

Time Weighted Average

### **ACGIH**

American Conference of Governmental Industrial Hygienists

### **IARC**

International Agency for Research on Cancer

### **DNEL**

Derived No Effect Level

### **PNEC**

Predicted No Effect Concentration

### **RPE**

Respiratory Protective Equipment

### **LD50**

Lethal Dose 50%

### **LC50**

Lethal Concentration 50%

**EC50**

Effective Concentration 50%

**NOEC**

No Observed Effect Concentration

**POW**

Partition coefficient Octanol:Water

**PBT**

Persistent, Bioaccumulative, Toxic

**vPvB**

very Persistent, very Bioaccumulative

**ICAO/IATA**

International Civil Aviation Organization/International Air  
Transport Association

**IMO/IMDG**

International Maritime Organization/International Maritime  
Dangerous Goods Code

**ADR**

European Agreement Concerning the International Carriage of  
Dangerous Goods by Road

**MARPOL**

International Convention for the Prevention of Pollution from  
Ships

**OECD**

Organisation for Economic Co-operation and Development

**ATE**

Acute Toxicity Estimate

**BCF**

Bioconcentration factor

**VOC**

(Volatile Organic Compound)

**Key literature references and sources for data**

<https://echa.europa.eu/information-on-chemicals>

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

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