

# SAFETY DATA SHEET

according to 1907/2006/EC, Article 3

Version no. : 2.0  
Prepared on : 25.02.2026  
Revised on : --

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

### 1.1 Product identifiers

**Product name** 2-(Ethylamino)ethanol  
**Product Number** PSR50228  
**Brand** PureSynth research chemicals  
**CAS No.** 110-73-6

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

**Identified uses** : Laboratory Reagent

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

**Company** PureSynth Research Chemicals GmbH.  
64683 Einhausen Marie-Curie-StraBe. 3, Germany

### 1.4 Emergency telephone number

**Worldwide Helpline No.:** 1800-8908-260

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Acute toxicity, (Category 4) H302: Harmful if swallowed.

Skin corrosion, (Sub-category 1B) H314: Causes severe skin burns and eye damage.

Serious eye damage, (Category 1) H318: Causes serious eye damage.

### 2.2 Label elements

**Pictogram**



**Signal word**

Danger

**Hazard statement(s)**

H302

Harmful if swallowed.

H314

Causes severe skin burns and eye damage.

**Precautionary statement(s)**

P280

Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301 + P312

IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.

P303 + P361 + P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304 + P340 + P310

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P363

Wash contaminated clothing before reuse.

**Supplemental Hazard Statements**

none

### 2.3 Other hazards: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation

(EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Rapidly absorbed through skin.

### SECTION 3: Composition / information on ingredients

#### 3.1 Substances

Common names & Synonyms	Mol. formula	CAS number
N-Ethylethanolamine	C <sub>4</sub> H <sub>11</sub> NO	110-73-6
Component	Classification	Concentration
2-Ethylaminoethanol	Acute Tox. 4; Skin Corr. 1B; Eye Dam. 1; H302, H314, H318	<= 100 %

### SECTION 4: First aid measures

#### Description of first aid measures

<b>General advice</b>	First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.
<b>If inhaled</b>	After inhalation: fresh air. Call in physician.
<b>In case of skin contact</b>	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.
<b>In case of eye contact</b>	After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.
<b>If swallowed</b>	After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.
<b>Most important symptoms and effects, both acute and delayed</b>	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
<b>Indication of any immediate medical attention and special treatment needed</b>	No data available

### SECTION 5: Fire fighting measures

<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Water, Foam, Carbon dioxide (CO <sub>2</sub> ), Dry powder
<b>Unsuitable extinguishing media</b>	For this substance/mixture no limitations of extinguishing agents are given.
<b>Special hazards arising from the substance or mixture</b>	Carbon oxides Nitrogen oxides (NO <sub>x</sub> ) Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating.
<b>Advice for fire-fighters</b>	Development of hazardous combustion gases or vapours possible in the event of fire. Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.
<b>Further information</b>	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.

### SECTION 6: Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	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.
<b>Environmental precautions</b>	Do not let product enter drains.
<b>Methods and materials for containment and cleaning up</b>	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material. Dispose of properly. Clean up affected area.

Reference to other sections

For disposal see section 13.

## SECTION 7: Handling and storage

### 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.

### Conditions for safe storage, including any incompatibilities Specific end use(s)

Storage conditions: Tightly closed.

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

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

## SECTION 8: Exposure controls / Personal protection

### Control parameters

Ingredients with workplace control parameters

### Exposure controls

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

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves.

Full contact

Material: butyl-rubber

Minimum layer thickness: 0.7 mm

Break through time: 480 min

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves.

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.4 mm

Break through time: 30 min

### Body Protection

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. Recommended Filter type: Filter type ABEK

The entrepreneur 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.

### Control of environmental exposure

Do not let product enter drains.

## SECTION 9: Physical and chemical properties

<b>Appearance</b>	Form: Liquid Colour: colorless
<b>Odour</b>	No data available
<b>pH - Value</b>	No data available
<b>Density</b>	0.914 g/cm <sup>3</sup> at 25 °C
<b>Boiling Point</b>	169 - 170 °C
<b>Melting Point</b>	-90 °C
<b>Solubility in water</b>	miscible in all proportions
<b>Flash point</b>	78 °C
<b>Vapour pressure</b>	0.46 hPa at 20 °C
<b>Auto-ignition temperature</b>	No data available
<b>Vapour density</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Partition coefficient: n- octanol / water</b>	No data available
<b>Viscosity</b>	Viscosity, dynamic : No data available Viscosity, kinematic : No data available
<b>Explosive properties</b>	No data available
<b>Upper / lower flammability or explosive limits</b>	Upper explosion limit: 11.7 %(V) Lower explosion limit: 1.6 %(V)
<b>Oxidizing properties</b>	None

**Other safety information:** Relative vapor density: 3.08 - (Air = 1.0)

## SECTION 10: Stability and reactivity

<b>Reactivity</b>	Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.
<b>Chemical stability</b>	The product is chemically stable under standard ambient conditions (room temperature).
<b>Possibility of hazardous reactions</b>	Exothermic reaction with: Acids Caution! In contact with nitrites, nitrates, nitrous acid possible liberation of nitrosamines! .
<b>Condition to avoid</b>	Strong heating.
<b>Incompatible materials</b>	No data available
<b>Hazardous decomposition products</b>	In the event of fire: see section 5.

## SECTION 11: Toxicological information

<b>Acute toxicity</b>	LD50 Oral - Rat - male and female - 1073 mg/kg (OECD Test Guideline 401) Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach. Acute toxicity estimate Oral - 1073 mg/kg (ATE value derived from LD50/LC50 value) Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages: damage of respiratory tract
<b>Skin corrosion/irritation</b>	LD50 Dermal - Rat - 3670 mg/kg (OECD Test Guideline 402) . Skin - Rabbit Result: Causes burns. (OECD Test Guideline 404)
<b>Serious eye damage/eye irritation</b>	Eyes - Rabbit Result: Causes serious eye damage. (OECD Test Guideline 405)

<b>Respiratory or skin sensitization</b>	No data available
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity</b>	No data available.
<b>Reproductive toxicity</b>	No data available
<b>Specific target organ toxicity - single exposure</b>	No data available
<b>Specific target organ toxicity - repeated exposure</b>	No data available
<b>Aspiration hazard</b>	No data available
<b>Additional Information</b>	<p>The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.</p> <p>Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.</p> <p>Under given conditions, contact with nitrites or nitric acid can lead to the formation of nitrosamines, which have shown themselves to be carcinogenic in animal experiments.</p> <p>Other dangerous properties can not be excluded.</p> <p>Handle in accordance with good industrial hygiene and safety practice.</p>

## SECTION 12: Ecological information

### Toxicity

Toxicity to fish	static test LC50 - <i>Leuciscus idus</i> (Golden orfe) - 100 - 215 mg/l - 96 h
Toxicity to algae	static test ErC50 - <i>Pseudokirchneriella subcapitata</i> – 37.3 mg/l - 72 h .
Toxicity to bacteria	No data available
Toxicity to fish(Chronic toxicity)	flow-through test NOEC - <i>Pimephales promelas</i> (fathead minnow) – 7.98 mg/l - 28 d
Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity)	semi-static test NOEC - <i>Daphnia magna</i> (Water flea) – 3.2 mg/l - 21 d

### Persistence and degradability

Biodegradability  
aerobic - Exposure time 28 d  
Result: 63 % - Readily biodegradable.

### Bio accumulative potential

No data available

### Mobility in soil

No data available

### Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### Other adverse effects

Neutralise before sewage disposal.  
Discharge into the environment must be avoided.

## SECTION 13: Disposal considerations

<b>Waste treatment methods</b>	No data available.
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**SECTION 14: Transport information**

	UN no.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
<b>ADR / RID</b>	2735	AMINES, LIQUID, CORROSIVE, N.O.S. (2-Ethylaminoethanol) (2-Ethylaminoethanol)	8	II	No
<b>IMDG</b>	2735	AMINES, LIQUID, CORROSIVE, N.O.S. (2-Ethylaminoethanol) (2-Ethylaminoethanol)	8	II	No
<b>IATA</b>	2735	Amines, liquid, corrosive, n.o.s. (2-Ethylaminoethanol) (2-Ethylaminoethanol)	8	II	No

**SECTION 15: Regulatory information**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

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

**Other regulations**

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

Take note of Dir 94/33/EC on the protection of young people at work.

**Chemical safety assessment**

For this product a chemical safety assessment was not carried out.

**SECTION 16: Other information**

The information in this SDS 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. The user must be determined suitability of this information for his application.