

Trade name: Trolaminum

Substance number: 077900

Version: 5 / CH

Date revised: 23.09.2025

Replaces Version: 4 / CH

Print date: 23.09.25

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trolaminum

Item No. 07790000

**Substance / product identification**

CAS-No. 102-71-6

EINECS-No. 203-049-8

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/preparation**

Chemical

**1.3. Details of the supplier of the safety data sheet****Address/Manufacturer**

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible  
for this SDS**1.4. Emergency telephone number**

Switzerland :145 / Abroad +41 (0)44 251 51 51

**SECTION 2: Hazards identification \*\*\*****2.1. Classification of the substance or mixture**

Voluntary product information following the Safety Data Sheet format

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

**2.2. Label elements****Labelling according to regulation (EC) No 1272/2008**

The product does not require a hazard warning label in accordance with Regulation (EC) No 1272/2008.

**2.3. Other hazards**

No special hazards have to be mentioned.

\*\*\*

The Substance does not meet PBT-criteria. This substance does not meet the vPvB-criteria. This substance does not have endocrine disrupting properties with respect to humans. This substance does not have endocrine disrupting properties with respect to non-target organisms.

**SECTION 3: Composition/information on ingredients****3.1. Substances****Molecular weight**

Value 149.19 g/mol

**Further ingredients**

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**2,2',2''-Nitrilotriethanol**

CAS No. 102-71-6

EINECS no. 203-049-8

Concentration  $\geq$  95 %

[3]

Classification (Regulation (EC) No. 1272/2008)

None

**Note**

[3] Substance with occupational exposure limits

**SECTION 4: First aid measures****4.1. Description of first aid measures****After inhalation**

Ensure supply of fresh air. In the event of symptoms take medical treatment.

**After skin contact**

After contact with skin, wash immediately with plenty of water. Consult a doctor if skin irritation persists.

**After eye contact**

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water.

**After ingestion**

Drink water in small gulps. Do NOT induce vomiting. Summon a doctor immediately.

**4.2. Most important symptoms and effects, both acute and delayed**

Coughing, Headache, Dizziness, Unconsciousness, Diarrhoea, Nausea, Vomiting, Tiredness

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Water, Carbon dioxide, Foam, Dry powder

**5.2. Special hazards arising from the substance or mixture**The product is combustible. Vapours heavier than air. Forms explosive mixture with air are possible. In case of combustion evolution of dangerous gases possible. In the event of fire the following can be released: Nitrogen oxides (NO<sub>x</sub>); Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO)**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

Use self-contained breathing apparatus.

**Other information**

Suppress vapours with water spray jet. Do not discharge into surface waters/groundwater.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Do not inhale vapours. Refer to protective measures listed in Sections 7 and 8.

**6.2. Environmental precautions**

Do not empty into drains. Advise water authority if spillage has entered water course or drainage system.

**6.3. Methods and material for containment and cleaning up**

Pick up with absorbent material. Send in suitable containers for recovery or disposal. Clean up affected

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area.

**6.4. Reference to other sections**

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Observe safety references and application instructions mentioned on can.

**7.2. Conditions for safe storage, including any incompatibilities****Recommended storage temperature**

|       |    |   |    |    |
|-------|----|---|----|----|
| Value | 15 | - | 25 | °C |
|-------|----|---|----|----|

**Storage classes**

|                                     |    |                   |
|-------------------------------------|----|-------------------|
| Storage class according to TRGS 510 | 10 | Flammable liquids |
|-------------------------------------|----|-------------------|

**Further information on storage conditions**

Keep container tightly closed.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limit values****2,2',2''-Nitrilotriethanol**

|                           |                                    |                   |
|---------------------------|------------------------------------|-------------------|
| List                      | SUVA                               |                   |
| Type                      | MAK                                |                   |
| Value                     | 5                                  | mg/m <sup>3</sup> |
| Short term exposure limit | 5                                  | mg/m <sup>3</sup> |
| Pregnancy group: S        | Remarks: SSc; Auge Haut OAW; NIOSH |                   |

**Derived No/Minimal Effect Levels (DNEL/DMEL)****2,2',2''-Nitrilotriethanol**

|                      |                                |                   |
|----------------------|--------------------------------|-------------------|
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Worker                         |                   |
| Duration of exposure | Long term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | Systemic effects               |                   |
| Concentration        | 5                              | mg/m <sup>3</sup> |

**Predicted No Effect Concentration (PNEC)****2,2',2''-Nitrilotriethanol**

|               |                     |       |
|---------------|---------------------|-------|
| Type of value | PNEC                |       |
| Type          | Freshwater          |       |
| Concentration | 0.32                | mg/l  |
| Type of value | PNEC                |       |
| Type          | Freshwater sediment |       |
| Concentration | 1.7                 | mg/kg |
| Type of value | PNEC                |       |
| Type          | Saltwater           |       |
| Concentration | 0.032               | mg/l  |

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|               |                              |       |
|---------------|------------------------------|-------|
| Type of value | PNEC                         |       |
| Type          | Marine sediment              |       |
| Concentration | 0.17                         | mg/l  |
| Type of value | PNEC                         |       |
| Type          | Sewage treatment plant (STP) |       |
| Concentration | 10                           | mg/l  |
| Type of value | PNEC                         |       |
| Type          | Soil                         |       |
| Concentration | 0.151                        | mg/kg |

## 8.2. Exposure controls

### General protective and hygiene measures

Remove contaminated, soaked clothing immediately and dispose of safely. Wash hands before breaks and after work.

### Respiratory protection

Breathing apparatus in the event of vapours. Breathing apparatus in the event of aerosol or mist formation. combination filter A-P2

### Hand protection

|                      |                         |
|----------------------|-------------------------|
| Gloves               |                         |
| Use                  | Permanent hand contact  |
| Appropriate Material | Natural Latex           |
| Material thickness   | 0.6 mm                  |
| Breakthrough time    | > 480 min               |
| Use                  | Short-term hand contact |
| Appropriate Material | nitrile rubber - NBR    |
| Material thickness   | 0.11 mm                 |
| Breakthrough time    | > 60 min                |

### Eye protection

Safety glasses

### Body protection

Clothing as usual in the chemical industry.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                |                |
|----------------|----------------|
| Physical state | viscous liquid |
| Colour         | colourless     |
| Odour          | ammonia-like   |

### Melting point

|       |      |    |
|-------|------|----|
| Value | 17.9 | °C |
|-------|------|----|

### Boiling point or initial boiling point and boiling range

|          |       |     |
|----------|-------|-----|
| Value    | 286   | °C  |
| Pressure | 1.013 | hPa |

### Flammability

|            |                |
|------------|----------------|
| evaluation | Not applicable |
|------------|----------------|

### Upper and lower explosive limits

|                       |     |      |
|-----------------------|-----|------|
| Lower explosion limit | 3.6 | %(V) |
| Upper explosion limit | 7.2 | %(V) |

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**Flash point**

Value 180 °C

**Auto-ignition temperature**

Value 325 °C

Method DIN 51794

**Decomposition temperature**

Remarks not determined

**pH value**

Value 10.5

Concentration/H<sub>2</sub>O 15 g/l

Temperature 20 °C

**Viscosity**

Value 600 mPa.s

Temperature 25 °C

**Partition coefficient n-octanol/water (log value)**

log Pow -2.3

Temperature 25 °C

Method OECD 107

**Vapour pressure**

Value &lt; 0.01 hPa

Temperature 20 °C

**Density and/or relative density**Value 1.13 g/cm<sup>3</sup>

Temperature 20 °C

Remarks Relative Density according specification

**9.2. Other information****Odour threshold**

Remarks not determined

**Solubility in water**

Value 1.5 g/l

Temperature 20 °C

Remarks soluble

**Auto-ignition temperature**

Remarks not determined

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

**10.2. Chemical stability**

No decomposition if stored and applied as directed.

**10.3. Possibility of hazardous reactions**

No hazardous reactions known.

**10.4. Conditions to avoid**

To avoid thermal decomposition, do not overheat.

**10.5. Incompatible materials**

Halogens, Nitrites, Oxidising agents, Acids, Developpment of toxic gases/vapours. Reactions with

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inorganic acid chlorides. Nitrites, Reaction with nitric acid. Incompatible with: Reactions with light metals.

**10.6. Hazardous decomposition products**

Carbon monoxide, nitrous oxides (NOx)

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

Remarks Based on available data, the classification criteria are not met.

**Acute oral toxicity (Components)****2,2',2''-Nitrilotriethanol**

|         |     |      |       |
|---------|-----|------|-------|
| Species | rat |      |       |
| LD50    |     | 7200 | mg/kg |

**Acute dermal toxicity**

Remarks Based on available data, the classification criteria are not met.

**Acute dermal toxicity (Components)****2,2',2''-Nitrilotriethanol**

|         |        |      |       |
|---------|--------|------|-------|
| Species | rabbit |      |       |
| LD50    | >      | 2000 | mg/kg |

**Acute inhalational toxicity**

Remarks Based on available data, the classification criteria are not met.

**Skin corrosion/irritation**

Remarks Based on available data, the classification criteria are not met.

**Skin corrosion/irritation (Components)****2,2',2''-Nitrilotriethanol**

|            |              |
|------------|--------------|
| evaluation | non-irritant |
|------------|--------------|

**Serious eye damage/irritation**

Remarks Based on available data, the classification criteria are not met.

**Serious eye damage/irritation (Components)****2,2',2''-Nitrilotriethanol**

|            |              |
|------------|--------------|
| evaluation | non-irritant |
|------------|--------------|

**Sensitization**

Remarks Based on available data, the classification criteria are not met.

**Sensitization (Components)****2,2',2''-Nitrilotriethanol**

|            |                 |
|------------|-----------------|
| evaluation | non-sensitizing |
|------------|-----------------|

**Mutagenicity**

Remarks Based on available data, the classification criteria are not met.

**Mutagenicity (Components)****2,2',2''-Nitrilotriethanol**

|            |   |
|------------|---|
| evaluation | Based on available data, the classification criteria are not met. |
|------------|---|

**Reproductive toxicity**

Remarks Based on available data, the classification criteria are not met.

**Carcinogenicity**

Remarks Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT)**

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**Single exposure**

Remarks Based on available data, the classification criteria are not met.

**Repeated exposure**

Remarks Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**11.2. Information on other hazards****Endocrine disrupting properties with respect to humans**

This substance does not have endocrine disrupting properties with respect to humans.

**Other information**

Observe the usual precautions for handling chemicals.

**SECTION 12: Ecological information \*\*\*****12.1. Toxicity****Fish toxicity (Components)****2,2',2''-Nitrilotriethanol**

LC50 11800 mg/l

**Daphnia toxicity (Components)****2,2',2''-Nitrilotriethanol**

|                      |         |      |
|----------------------|---------|------|
| Species              | Daphnia |      |
| EC50                 | 2038    | mg/l |
| Duration of exposure | 24      | h    |

**12.2. Persistence and degradability****Biodegradability (Components)****2,2',2''-Nitrilotriethanol**

evaluation biodegradable

**12.3. Bioaccumulative potential****Partition coefficient n-octanol/water (log value)**

|             |          |
|-------------|----------|
| log Pow     | -2.3     |
| Temperature | 25 °C    |
| Method      | OECD 107 |

**12.4. Mobility in soil****General information**

For this subsection there is no ecotoxicological data available on the product as such.

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

The Substance does not meet PBT-criteria.

This substance does not meet the vPvB-criteria.

**12.6 Endocrine disrupting properties****Endocrine disrupting properties with respect to the environment**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

**12.7. Other adverse effects****General information**

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For this subsection there is no ecotoxicological data available on the product as such.

**General information / ecology**

Hazard for drinking water supplies.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations for the product**

Disposal in compliance with local and national regulations.

**Disposal recommendations for packaging**

Dispose of as unused product.

**SECTION 14: Transport information**

|                              | Land transport ADR/RID   | Marine transport IMDG/GGVSee  | Air transport ICAO/IATA   |
|------------------------------|--|---|---|
| 14.1. UN number or ID number | The product does not constitute a hazardous substance in land transport. | The product does not constitute a hazardous substance in sea transport. | The product does not constitute a hazardous substance in air transport. |

**SECTION 15: Regulatory information \*\*\*****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Water Hazard Class (Germany)**

Water Hazard Class (Germany) WGK 1

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

**Other information \*\*\***

The product does not contain substances according to Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH) with a content of  $\geq 0.1\%$  w/w.

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

**SECTION 16: Other information****Supplemental information**

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*  
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.