

Trade name: Trolaminum

Substance number: 077900

Version: 4 / CH

Date revised: 26.10.2020

Replaces Version: 3 / CH

Print date: 26.10.20

## **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.

## **SECTION 3: Composition/information on ingredients \*\*\***

### **3.1. Substances**

#### **Molecular weight**

Value 149.19 g/mol

#### **Further ingredients \*\*\***

##### **2,2',2"-Nitrilotriethanol**

CAS No. 102-71-6

EINECS no. 203-049-8

Concentration &gt;= 95 %

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Classification (Regulation (EC) No. 1272/2008)  
None

**Note**

[4] Voluntary information

**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 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.

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## **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
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#### **Storage classes**

Storage class according to TRGS 510	10	Flammable liquids
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#### **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	10	mg/m <sup>3</sup>
Pregnancy group: S; Remarks: SSc; Auge & Haut, OAW; NIOSH		

### **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**

<b>Gloves</b>			
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**

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<b>Form</b>	viscous liquid		
<b>Colour</b>	colourless		
<b>Odour</b>	ammonia-like		
<b>Odour threshold</b>			
Remarks	not determined		
<b>pH value</b>			
Value	10.5		
Concentration/H <sub>2</sub> O	15	g/l	
Temperature	20	°C	
<b>Melting point</b>			
Value	17.9		°C
<b>Initial boiling point and boiling range</b>			
Value	286		°C
Pressure	1.013	hPa	
<b>Flash point</b>			
Value	180		°C
<b>Flammability (solid, gas)</b>	Not applicable		
<b>Upper/lower flammability or explosive limits</b>			
Lower explosion limit	3.6		%(V)
Upper explosion limit	7.2		%(V)
<b>Vapour pressure</b>			
Value	< 0.01		hPa
Temperature	20	°C	
<b>Density</b>			
Value	1.13		g/cm <sup>3</sup>
Temperature	20	°C	
Remarks	Relative Density according specification		
<b>Solubility in water</b>			
Value	1.5		g/l
Temperature	20	°C	
Remarks	soluble		
<b>Partition coefficient: n-octanol/water</b>			
log Pow	-2.3		
Temperature	25	°C	
Method	OECD 107		
<b>Ignition temperature</b>			
Value	325		°C
Method	DIN 51794		
<b>Auto-ignition temperature</b>			
Remarks	not determined		
<b>Decomposition temperature</b>			
Remarks	not determined		
<b>Viscosity</b>			
Value	600		mPa.s
Temperature	25	°C	

**SECTION 10: Stability and reactivity**

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**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, Development of toxic gases/vapours. Reactions with inorganic acid chlorides. Nitrites, Reaction with nitric acid. Incompatible with: Reactions with light metals.

**10.6. Hazardous decomposition products**Carbon monoxide, nitrous oxides (NO<sub>x</sub>)**SECTION 11: Toxicological information \*\*\*****11.1. Information on toxicological effects****Acute oral toxicity (Components)****2,2',2''-Nitrilotriethanol**

Species	rat		
LD50		7200	mg/kg

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

Species	rabbit		
LD50	>	2000	mg/kg

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

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

evaluation	non-irritant
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**Sensitization (Components)****2,2',2''-Nitrilotriethanol**

evaluation	non-sensitizing
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**Mutagenicity (Components)****2,2',2''-Nitrilotriethanol**

evaluation	Based on available data, the classification criteria are not met.
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**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
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**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
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**12.3. Bioaccumulative potential****Partition coefficient: n-octanol/water**

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****General information**

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

**12.6. Other adverse effects****General information**

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
<b>14.1. UN number</b>	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**

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**or mixture****Water Hazard Class (Germany) \*\*\***

Water Hazard Class           WGK 1

(Germany)

Remarks

Derivation of WGK according to Annex 1 No. 5.2 AwSV

**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.