

Trade name

Substance number: 336070

Version: 2 / CH

Date revised: 22.03.2021

Replaces Version: 1 / CH

Print date: 22.03.21

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

Item No. 33607000

**Registration no.**

EC No.: 215-185-5

CAS No. 1310-73-2

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

food additive, Additive, Manufacture of pharmaceutical products

**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  
person responsible  
for this SDS sdb@haenseler.ch

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

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

Skin Corr. 1B H314

Eye Dam. 1 H318

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

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

Danger

**Hazard statements**

H314 Causes severe skin burns and eye damage.

**Precautionary statements \*\*\***

P264.1 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER or doctor.  
 P501.3 Disposal in compliance with local and national regulations.

**Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)**

contains sodium hydroxide

**SECTION 3: Composition/information on ingredients \*\*\*****Molecular weight**

Value	40.00	g/mol
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**Hazardous ingredients****sodium hydroxide**

CAS No.	1310-73-2		
EINECS no.	215-185-5		
Registration no.	01-2119457892-27-XXXX		
Concentration	>= 3	< 5	%
Classification (Regulation (EC) No. 1272/2008)	Skin Corr. 1A	H314	

## Concentration limits (Regulation (EC) No. 1272/2008)

Eye Irrit. 2	H319	>= 0.5 < 2 %
Skin Corr. 1A	H314	>= 5
Skin Corr. 1B	H314	>= 2 < 5
Skin Irrit. 2	H315	>= 0.5 < 2 %

**Further ingredients \*\*\*****Water**

CAS No.	7732-18-5		
EINECS no.	231-791-2		
Concentration		>= 95	%
Advice: [4]			

**Note**

[4] Voluntary information

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

Remove the casualty into fresh air and keep him calm. Summon a doctor immediately.

**After skin contact**

After contact with skin, wash immediately with plenty of water. Remove contaminated, soaked clothing immediately and dispose of safely.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

**After ingestion**

Drink water in small gulps. Do not induce vomiting. Summon a doctor immediately. No trials on neutralisation.

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

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Chemical burn, Irritation of mucosa

**4.3. Indication of any immediate medical attention and special treatment needed****Hints for the physician / treatment**

Treat symptomatically

**Hints for the physician / hazards**

Risk of pulmonary oedema

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

Extinguishing measures to suit surroundings

**5.2. Special hazards arising from the substance or mixture**

The product is not combustible. If a fire breaks out nearby evolution of dangerous gases possible.

**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

Use self-contained breathing apparatus. Use personal protective clothing.

**Other information**

Do not discharge into surface waters/groundwater.

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

Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not inhale dust. Ensure adequate ventilation.

**6.2. Environmental precautions**

Do not allow to enter drains or waterways.

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

Pick up with absorbent material (eg sand, kieselgur, acid binder, universal binder, sawdust). Dampen, pick up mechanically and dispose of. Clean up affected area.

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

Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid development of dusts/ billows/ steams.

**Advice on protection against fire and explosion**

Avoid dust formation.

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

Value &lt; 25

**Requirements for storage rooms and vessels**

Keep container tightly closed in a well-ventilated place. Keep in a dry place. Do not use aluminium containers. Do not use zinc containers.

**Storage classes**

Storage class according to TRGS 510

8B

Non-combustible corrosive hazardous

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Storage category (Switzerland) 8 substances  
Caustic and corrosive substances

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

### **8.1. Control parameters**

#### **Exposure limit values**

##### **sodium hydroxide**

List	SUVA		
Type	MAK		
Value	2	mg/m <sup>3</sup>	
Short term exposure limit	2	mg/m <sup>3</sup>	
Pregnancy group: S; Remarks: SSc; Haut, OAWKT & AugeKT; NIOSH, OSHA			

### **8.2. Exposure controls**

#### **General protective and hygiene measures**

Remove contaminated, soaked clothing immediately and dispose of safely. Wash hands and face after work. Preventative skin protection. Avoid contact with skin and eyes. Do not breathe dust.

#### **Respiratory protection**

necessary; Breathing apparatus in the event of aerosol. combination filter A-P2

#### **Hand protection**

Gloves			
Appropriate Material	nitrile rubber - NBR		
Material thickness	0.4	mm	
Breakthrough time	> 480	min	

#### **Eye protection**

Tightly fitting safety glasses

#### **Body protection**

protective overalls

## **SECTION 9: Physical and chemical properties**

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

<b>Form</b>	liquid		
<b>Colour</b>	colourless, clear		
<b>pH value</b>			
Value	> 10		
<b>Melting point</b>			
Value	323		°C
<b>Initial boiling point and boiling range</b>			
Value	1390		°C
Pressure	1013	hPa	
<b>Flash point</b>			
Value			°C
Remarks	Not applicable		
<b>Vapour pressure</b>			
Remarks	Not applicable		
<b>Density</b>			
Value	2.13		g/cm <sup>3</sup>
Temperature	20	°C	

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**Solubility in water**

Value	1090		g/l
Temperature	20	°C	

**Ignition temperature**

Remarks Not applicable

**Decomposition temperature**

Remarks No decomposition if used as prescribed.

**9.2. Other information****Other information**

Product is hygroscopic.

**SECTION 10: Stability and reactivity****10.1. Reactivity**Acetone, peroxides, Acids, hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>). Water, Phenol, Reactions with metals, with evolution of hydrogen. Reactions with light metals, with evolution of hydrogen.**10.2. Chemical stability**

No decomposition if stored and applied as directed.

**10.3. Possibility of hazardous reactions**

Possible incompatibility with materials listed under section 10.5.

**10.4. Conditions to avoid**

Protect from atmospheric moisture and water.

**10.5. Incompatible materials**Reacts violently with: Metals, Aluminium, Acids, Acetone, peroxides, hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>). Water, Reactions with light metals. Phenol, Zinc, Corrodes copper and brass.**10.6. Hazardous decomposition products**

No data available.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute oral toxicity**

ATE	>	10'000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)		

**Acute oral toxicity (Components)****sodium hydroxide**

Species	rat		
LD50	2000		mg/kg

**Skin corrosion/irritation (Components)****sodium hydroxide**

Species	rabbit		
Duration of exposure	24		h
Remarks	Corrosive		

**Serious eye damage/irritation (Components)****sodium hydroxide**

Species	rabbit		
Duration of exposure	24		h

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evaluation	strongly corrosive
Method	Draize method
Remarks	Influence of the product with the eyes can lead to blindness.

**Specific Target Organ Toxicity (STOT) (Components)****sodium hydroxide**

Remarks No data available

**Experience in practice**

After Swallowing: burns in mouth, throat, oesophagus and gastrointestinal tract. Risk of perforation in the oesophagus and stomach. Inhalation of dusts may irritate the respiratory tract.

**Other information**

Observe the usual precautions for handling chemicals.

**SECTION 12: Ecological information****12.1. Toxicity****Fish toxicity (Components)****sodium hydroxide**

Species	Gambusia affinis		
LC50	125		mg/l
Duration of exposure	96	h	

**sodium hydroxide**

Species	rainbow trout (Oncorhynchus mykiss)		
LC50	45.4		mg/l
Duration of exposure	96	h	

**Daphnia toxicity (Components)****sodium hydroxide**

Species	Daphnia		
EC50	40.38		mg/l
Duration of exposure	48	h	
Remarks	Immobilization		

**sodium hydroxide**

Species	Daphnia magna		
EC50	76		mg/l
Duration of exposure	24	h	

**Bacteria toxicity (Components)****sodium hydroxide**

Species	Photobacterium phosphoreum		
EC50	22		mg/l
Duration of exposure	15	min	

**12.2. Persistence and degradability****Biodegradability (Components)****sodium hydroxide**

evaluation not degradable

**12.6. Other adverse effects****Behaviour in environment compartments**

Because of the n-octanol/water distribution coefficient (log p<sub>OW</sub>) accumulation in organisms is not possible.

**Behaviour in sewers [waste treatment plants]**

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The product is an alkaline solution. Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.

**General information / ecology**

Do not allow it to reach ground water, water bodies or sewage system.

**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**

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

**SECTION 14: Transport information**

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	E		
14.1. UN number	1824	1824	1824
14.2. UN proper shipping name	SODIUM HYDROXIDE SOLUTION	SODIUM HYDROXIDE SOLUTION	SODIUM HYDROXIDE SOLUTION
14.3. Transport hazard class(es)	8	8	8
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 l		
Transport category	3		

**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

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has been carried out.

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## **SECTION 16: Other information**

### **Hazard statements listed in Chapter 3**

H314 Causes severe skin burns and eye damage.

### **CLP categories listed in Chapter 3**

Skin Corr. 1A Skin corrosion, Category 1A

### **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.