

Trade name: Natrii hydroxidum in rotulis

Substance number: 066232

Version: 4 / CH

Date revised: 17.12.2018

Replaces Version: 3 / CH

Print date: 01.10.19

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

### **1.1. Product identifier**

Natrii hydroxidum in rotulis

Item No. 06623200

#### **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 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**

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

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

Skin Corr. 1A H314

Eye Dam. 1 H318

Met. Corr. 1 H290

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.

H290

May be corrosive to metals.

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**Precautionary statements**

P234	Keep only in original packaging.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
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

**Hazardous ingredients****Sodium hydroxide**

CAS No.	1310-73-2	
EINECS no.	215-185-5	
Registration no.	01-2119457892-27-XXXX	
Concentration	>= 100	%
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

**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**

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**

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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 substances
Storage category (Switzerland)	8	Caustic and corrosive substances

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

### **8.1. Control parameters**

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**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; Status: 2017; Remarks: SSc; Haut, OAWKT &amp; 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>	solid		
<b>Colour</b>	white		
<b>Odour</b>	odourless		
<b>pH value</b>			
Value	> 14		
Concentration/H <sub>2</sub> O	50	g/l	
Temperature	20	°C	
<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>			
Remarks	Not applicable		
<b>Vapour pressure</b>			
Temperature	20	°C	
Remarks	Not applicable		
<b>Density</b>			
Value	2.13		g/cm <sup>3</sup>
Temperature	20	°C	
<b>Solubility in water</b>			
Value	1090		g/l

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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	2'000	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
evaluation	strongly corrosive	
Method	Draize method	
Remarks	Influence of the product with the eyes can lead to blindness.	

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**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]**

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

**General information / ecology**

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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	1823	1823	1823
14.2. UN proper shipping name	SODIUM HYDROXIDE, SOLID	SODIUM HYDROXIDE, SOLID	SODIUM HYDROXIDE, SOLID
14.3. Transport hazard class(es)	8	8	8
Label			
14.4. Packing group	II	II	II
Limited Quantity	1 kg		
Transport category	2		

**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.

**SECTION 16: Other information****Hazard statements listed in Chapter 3**

H314 Causes severe skin burns and eye damage.

**CLP categories listed in Chapter 3**

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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.