

Trade name: Natrii hydroxidum in rotulis

Substance number: 066232

Version: 5 / CH

Date revised: 27.09.2024

Replaces Version: 4 / CH

Print date: 02.10.24

## **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)

Met. Corr. 1 H290

Skin Corr. 1A 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 \*\*\***

H290

May be corrosive to metals.

H314

Causes severe skin burns and eye damage.

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**Precautionary statements**

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
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

**2.3. Other hazards**

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 \*\*\*****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	>= 100 %
Classification (Regulation (EC) No. 1272/2008)	
Met. Corr. 1	H290
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 %

ATE	oral	325	mg/kg
ATE	dermal	1'350	mg/kg

**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. Summon a doctor immediately.

**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. If swallowed, rinse mouth with water (only if the person is conscious).

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

Chemical burn, Irritation of mucosa, irritant - risk of serious damage to eyes

**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

**Non suitable extinguishing media**

Full water jet

**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. Avoid breathing vapours.

**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**

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Keep container tightly closed in a well-ventilated place. Keep in a dry place. Do not use aluminium containers. Do not use zinc containers. Do not use metal 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****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: SSs; Haut, OAWKT & AugeKT; NIOSH, OSHA	

**Derived No/Minimal Effect Levels (DNEL/DMEL)****sodium hydroxide**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	1	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	1	mg/m <sup>3</sup>

**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; Particle filter P2

**Hand protection**

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

**Eye protection**

Tightly fitting safety glasses; Face shield

**Body protection**

protective overalls

**SECTION 9: Physical and chemical properties**

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

**Physical state** solid  
**Colour** white  
**Odour** odourless

**Melting point**

Value 323 °C

**Boiling point or initial boiling point and boiling range**

Value 1390 °C  
 Pressure 1013 hPa

**Flash point**

Remarks Not applicable

**Ignition temperature**

Remarks Not applicable

**Decomposition temperature**

Remarks No decomposition if used as prescribed.

**pH value**

Value > 14  
 Concentration/H<sub>2</sub>O 50 g/l  
 Temperature 20 °C

**Vapour pressure**

Temperature 20 °C  
 Remarks Not applicable

**Density and/or relative density**

Value 2.13 g/cm<sup>3</sup>  
 Temperature 20 °C

**9.2. Other information****Solubility in water**

Value 1090 g/l  
 Temperature 20 °C

**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.

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**10.6. Hazardous decomposition products**

No data available.

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

ATE	325	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

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

Species	rat	
LD50	2000	mg/kg
Source	NLM HSDB	

**sodium hydroxide**

Species	rat	
LD50	325	mg/kg
Source	OECD SIDS	

**Acute dermal toxicity**

ATE	1'350	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

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

Remarks	Strong corrosive action on the skin and mucous membrane.
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**sodium hydroxide**

Species	rabbit	
LD50	1350	mg/kg
Source	NLM HSDB	

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

Remarks	Strong corrosive action on the skin and mucous membrane.
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**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.	

**Sensitization (Components)****sodium hydroxide**

Remarks	No sensitisation effect known.
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**Subacute, subchronic, chronic toxicity (Components)****sodium hydroxide**

Remarks	No data available
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**Mutagenicity (Components)****sodium hydroxide**

Species	Escherichia coli
evaluation	No mutagenicity in the Ames-test.

**Reproduction toxicity (Components)****sodium hydroxide**

Remarks	No data available
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**Carcinogenicity (Components)****sodium hydroxide**

evaluation	No negative effects
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**Specific Target Organ Toxicity (STOT) (Components)****sodium hydroxide**

Remarks	No data available
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**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.

**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

**sodium hydroxide**

Species	guppy (Poecilia reticulata)	
LC50	145	mg/l
Duration of exposure	24	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

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**sodium hydroxide**

Species	Ceriodaphnia dubia	
EC50	40.4	mg/l
Duration of exposure	48	h

**Algae toxicity (Components)****sodium hydroxide**

Remarks	No data available.
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**Bacteria toxicity (Components)****sodium hydroxide**

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

**12.2. Persistence and degradability****Physico-chemical eliminability (Components)****sodium hydroxide**

Remarks	No data available.
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**Biodegradability (Components)****sodium hydroxide**

evaluation	not degradable
Remarks	Inorganic product, cannot be eliminated from the water by biological purification processes.

**Ready degradability (Components)****sodium hydroxide**

Remarks	Inorganic product, cannot be eliminated from the water by biological purification processes.
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**12.4. Mobility in soil****Mobility in soil (Components)****sodium hydroxide**

Slightly mobile in soils
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**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****Behaviour in environment compartments**

Because of the n-octanol/water distribution coefficient (log pOW) 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**

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

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## 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

H290 May be corrosive to metals.  
 H314 Causes severe skin burns and eye damage.  
 H318 Causes serious eye damage.

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### CLP categories listed in Chapter 3

Eye Dam. 1	Serious eye damage, Category 1
Met. Corr. 1	Substance or mixture corrosive to metals, Category 1
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.