

Trade name: Natrii hydroxidi 10% solut

Substance number: 209249

Version: 1 / CH

Date revised: 05.04.2024

Replaces Version: - / CH

Print date: 05.04.24

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

### **1.1. Product identifier**

Natrii hydroxidi 10% solut

Item No. 20924900

### **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

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**

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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.

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

contains sodium hydroxide

**2.3. Other hazards**

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

**SECTION 3: Composition/information on ingredients****Hazardous ingredients****sodium hydroxide**

CAS No.	1310-73-2
EINECS no.	215-185-5
Registration no.	01-2119457892-27-XXXX
Concentration	>= 10 < 16 %
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****General information**

Adhere to personal protective measures when giving first aid. In any case show the physician the Safety Data Sheet.

**After inhalation**

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

**After skin contact**

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

**After eye contact**

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

**After ingestion**

Rinse out mouth and give plenty of water to drink. Do NOT induce vomiting. Summon a doctor immediately. No trials on neutralisation.

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

Important or other important known symptoms and effects are described in the GHS labelling of the product (see section 2) and in section 11.

**SECTION 5: Firefighting measures**

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**5.1. Extinguishing media****Suitable extinguishing media**

Extinguishing measures to suit surroundings

**Non suitable extinguishing media**

No extinguishing agent restrictions

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

sodium oxides; 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. Wear protective clothing.

**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. Ensure adequate ventilation.

**6.2. Environmental precautions**

Do not empty into drains.

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

Pick up with absorbent material. Neutralize. Clean up affected area.

**6.4. Reference to other sections**

Information regarding waste disposal, see Section 13.

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

Avoid contact with skin, eyes and clothing. Provide good ventilation of working area (local exhaust ventilation if necessary).

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Do not use metal containers. Keep tightly closed in a dry and cool place.

**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>

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Short term exposure limit 2 mg/m<sup>3</sup>  
 Pregnancy group: S; Remarks: SSc; 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**

General industrial hygiene practice. Keep away from food-stuffs, beverages and feed-stocks. Wash hands before breaks and after work. At work do not eat, drink, smoke or take drugs. Remove contaminated, soaked clothing immediately and dispose of safely.

**Respiratory protection**

Do not breathe vapours, dust or aerosol. Multi-purpose filter ABEK; If vapours occur, use filter type A (= against vapours of organic compounds) according to EN 14387.

**Hand protection**

necessary  
 Use Permanent hand contact  
 Appropriate Material nitrile rubber - NBR  
 Material thickness 0.11 mm  
 Breakthrough time 480 min  
 Hand protection must comply with EN 374.

**Eye protection**

Tightly fitting safety glasses; Eye protection must comply with EN 166.

**Body protection**

Protective clothing

**Environmental exposure controls**

Do not allow to enter drains or water courses.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Physical state</b>	liquid	
<b>Colour</b>	colourless	
<b>Odour</b>	odourless	
<b>Boiling point or initial boiling point and boiling range</b>		
Value	> 100	°C
<b>Flash point</b>		
Value	°C	

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Remarks Not applicable

**pH value**

Value	14		
Concentration/H <sub>2</sub> O	100	g/l	
Temperature	20	°C	

**Vapour pressure**

Value	23		hPa
Temperature	20	°C	

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

Remarks soluble

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

No decomposition if stored and applied as directed.

**10.2. Chemical stability**

Stable under recommended storage and handling conditions (see section 7).

**10.3. Possibility of hazardous reactions**

The reaction partners generally known for water.

**10.4. Conditions to avoid**

No decomposition if stored and applied as directed.

**10.5. Incompatible materials**

Water, Acids, Organic materials, aluminium (Al), phosphorus, zinc (Zn), Metals

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

ATE	2'981.65	mg/kg
	14	

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	> 10'000	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.

**sodium hydroxide**

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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.

**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.

**Subacute, subchronic, chronic toxicity (Components)****sodium hydroxide**

Remarks No data available

**Mutagenicity (Components)****sodium hydroxide**

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

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

Remarks No data available

**Carcinogenicity (Components)****sodium hydroxide**

evaluation No negative effects

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

Remarks No data available

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

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

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

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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	

**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**

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Slightly mobile in soils

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

The product contains no PBT substances

The product contains no vPvB substances.

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

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.




**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**

Disposal in compliance with local and national regulations.

**SECTION 14: Transport information**

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	E		
14.1. UN number	1760	1760	1760
14.2. UN proper shipping name	CORROSIVE LIQUID, N.O.S. (sodium hydroxide)	CORROSIVE LIQUID, N.O.S. (sodium hydroxide)	CORROSIVE LIQUID, N.O.S. (sodium hydroxide)
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 WGK 1  
(Germany)



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Remarks

Derivation of WGK according to Annex 1 No. 5.2 AwSV

**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.

**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.