

Trade name: Natrii hydroxidi 30% solut

Substance number: 209375

Version: 5 / CH

Date revised: 08.04.2020

Replaces Version: 4 / CH

Print date: 09.04.20

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

### **1.1. Product identifier**

Natrii hydroxidi 30% solut

Item No. 20937500

### **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.

##### **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.

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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****Chemical characterization**

Alcoholic solution

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

CAS No. 1310-73-2

EINECS no. 215-185-5

Registration no. 01-2119457892-27-XXXX

Concentration  $\geq 25$   $< 50$  %

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

Skin Corr. 1A

H314

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

Eye Irrit. 2 H319  $\geq 0.5 < 2$ Skin Corr. 1A H314  $\geq 5$ Skin Corr. 1B H314  $\geq 2 < 5$ Skin Irrit. 2 H315  $\geq 0.5 < 2$ **SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove affected person from danger area. Adhere to personal protective measures when giving first aid. Remove contaminated clothing immediately and dispose of safely.

**After inhalation**

If the patient is likely to become unconscious, place and transport in stable sideways position.

**After skin contact**

Summon a doctor immediately. Wash off immediately with soap and water and rinse well.

**After eye contact**

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

**After ingestion**

Do not induce vomiting. No trials on neutralisation. Rinse out mouth and give plenty of water to drink. Ensure supply of fresh air. Take medical treatment.

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

Irritation of mucosa, Chemical burn, Vomiting

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

Risk of stomach perforation; Frequent and persistent contact with the skin can cause dermatitis.

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

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

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**Non suitable extinguishing media**

Full water jet

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

explosiv

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

Wear full protective suit. Use self-contained breathing apparatus. Do not allow run-off from fire fighting to enter drains or water courses.

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

High risk of slipping due to leakage/spillage of product. Wear protective equipment. Keep away unprotected persons.

**6.2. Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. 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 (eg sand, kieselgur, acid binder, universal binder).

**6.4. Reference to other sections**

Information regarding waste disposal, see Section 13. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

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

When diluting, always stir product into water. For personal protection see Section 8.

**Advice on protection against fire and explosion**

The product is not combustible.

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

Provide alkali-resistant floor. Do not use light metal drums.

**Hints on storage assembly**

Do not store with acids. Peroxides

**Storage classes**

Storage class according to TRGS 510 8B

Non-combustible corrosive hazardous substances

Storage category (Switzerland) 8

Caustic and corrosive substances

**Further information on storage conditions**

Keep container tightly closed in a cool, well-ventilated place.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limit values**

Sodium hydroxide

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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 & 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>

**Predicted No Effect Concentration (PNEC)****Sodium hydroxide****8.2. Exposure controls****Exposure controls**

See Section 7. No measures exceeding the ones mentioned necessary.

**General protective and hygiene measures**

Hold eye wash fountain available. Keep away from food-stuffs, beverages and feed-stocks. Take off immediately all contaminated clothing. Wash hands before breaks and after work. Avoid contact with skin and eyes.

**Respiratory protection**

Breathing apparatus in the event of vapours. Breathing apparatus in the event of aerosol or mist formation. Particle filter P2

**Hand protection**

Gloves (alkali-resistant)	Gloves / resistant to chemicals
Appropriate Material	
Breakthrough time	>= 8 h
Appropriate Material	Natural Latex
Material thickness	0.5 mm
Breakthrough time	>= 8 h
Appropriate Material	Polychloroprene
Material thickness	0.5 mm
Breakthrough time	>= 8 h
Appropriate Material	nitrile rubber - NBR
Material thickness	0.35 mm
Breakthrough time	>= 8 h
Appropriate Material	Butyl rubber - Butyl
Material thickness	0.5 mm
Breakthrough time	>= 8 h
Appropriate Material	Fluoro carbon rubber - FKM
Material thickness	0.4 mm
Breakthrough time	>= 8 h

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Appropriate Material PVC  
 Material thickness 0.5 mm  
 Breakthrough time  $\geq$  8 h  
 Not suitable: leather gloves  
 Not suitable: gloves made of thick material

**Eye protection**

Tightly fitting safety glasses; Face shield

**Body protection**

Alkali-resistant protective clothing

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

<b>Form</b>	liquid		
<b>Colour</b>	colourless		
<b>Odour</b>	odourless		
<b>pH value</b>			
Value	14		
Temperature	20	°C	
<b>Melting point</b>			
Value	appr. 1		°C
<b>Initial boiling point and boiling range</b>			
Value	117		°C
<b>Flash point</b>			
Value		°C	
Remarks	Not applicable		
<b>Flammability (solid, gas)</b>			
Not self inflammable			
<b>Vapour pressure</b>			
Value	23		hPa
Temperature	20	°C	
<b>Density</b>			
Value	appr. 1.34		g/cm <sup>3</sup>
Temperature	20	°C	
<b>Solubility in water</b>			
Value	1090		g/l
Temperature	20	°C	
<b>Viscosity</b>			
<b>dynamic</b>			
Value	appr. 13		mPa.s
Temperature	20	°C	

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

The product is not dangerous for explosions.

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

Reactions with metals, with evolution of hydrogen.

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**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**

Keep away from sources of heat and ignition. Flames

**10.5. Incompatible materials**

Reactions with metals, with evolution of hydrogen. Aluminium, Reactions with light metals. Zinc, Explosive, Exothermic reaction with acids.

**10.6. Hazardous decomposition products**

Hydrogen

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

ATE	6'451.61	mg/kg
	29	
Method	calculated value (Regulation (EC) No. 1272/2008)	

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

Species	rat	
LD50	2000	mg/kg

**Skin corrosion/irritation**

Remarks	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**

Remarks	strongly corrosive
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**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**

Remarks	No sensitization effect known.
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**Specific Target Organ Toxicity (STOT) (Components)****Sodium hydroxide**

Remarks	No data available
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**Experience in practice**

Ingestion of aqueous solution causes burns in: Mouth. Throat. Perforation of gullet and stomach.

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

#### Evaluation of persistence and bioaccumulation potential (Components)

##### Sodium hydroxide

Does not bioaccumulate.

### 12.6. Other adverse effects

#### 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.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations for the product

EWC waste code	No not dispose with rubbish.
In accordance with regulations for special waste, must be taken to an authorised special waste disposal site.	
EWC waste code	Should not be released into the sanitary sewer system.

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**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	II	II	II
Limited Quantity	1 I		
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 not 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**

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.



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