

Trade name: Natrii hydroxidum in Perlen

Substance number: 066248

Version: 5 / CH

Date revised: 28.02.2023

Replaces Version: 4 / CH

Print date: 28.02.23

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

1.1. Product identifier

Natrii hydroxidum in Perlen

Item No. 06624800

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/preparation

Raw material for pharmaceutical production and analysis

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.

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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

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	40.01	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**

Irregular breathing/no breathing: artificial respiration. If the patient is likely to become unconscious, place and transport in stable sideways position. Remove to fresh air, keep patient warm and at rest. 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

Separate eyelids, wash the eyes thoroughly with water (15 min.). In case of contact with the eyes rinse thoroughly with plenty of water or with an eye-cleaning solution. Summon a doctor immediately.

After ingestion

Summon a doctor immediately. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting.

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

Breathing stop, Coughing, Chemical burn, In the foreground the local effect stays at first, characterized by a quickly in the depth moving damage of the tissue. Danger of blindness. if swallowed: Nausea, bleeding vomiting, Diarrhoea, Coughing, Shortness of breath

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguishing measures to suit surroundings, recommended: alcohol resistant foam, CO2-blanket, powders, water spray/mist

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Development of toxic gases; Burning produces irritant fumes.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus. Wear protective clothing.

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove persons to safety. Keep away unprotected persons. Ensure supply of fresh air. Wear protective equipment. Avoid dust formation. Do not inhale dust.

6.2. Environmental precautions

Do not empty into drains. Do not discharge into the drains/surface waters/groundwater. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Take up mechanically and collect in suitable container for disposal. Avoid raising dust. When picked up, treat material as prescribed under Section 13 "Disposal".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Transfer and handle in enclosed systems is recommended. When diluting, always stir product into water. Transfer and handle product in dust-proof plants. Avoid dust formation.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep only in original packaging. Keep container tightly closed in a well-ventilated place. Keep in a dry place.

Storage classes

Storage class according to TRGS 510	8B	Non-combustible corrosive hazardous substances
Storage category (Switzerland)	8	Caustic and corrosive substances

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Further information on storage conditions

Keep container tightly closed.

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

List	SUVA	
Type	MAK	
Value	2	mg/m ³
Short term exposure limit	2	mg/m ³
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 ³

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 ³

8.2. Exposure controls**Exposure controls**

Provide adequate ventilation.

General protective and hygiene measures

Hold eye wash fountain available. Remove contaminated, soaked clothing immediately and dispose of safely. Observe the usual precautions for handling chemicals.

Respiratory protection

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

Hand protection

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Appropriate Material	butyl
Breakthrough time	> 4 h
Hand protection must comply with EN 374.	

Eye protection

Safety glasses with side protection shield; Eye protection must comply with EN 166.

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	Pellets		
Colour	colourless		
Odour	odourless		
Melting point			
Value	323		°C
Boiling point or initial boiling point and boiling range			
Value	1390		°C
Flammability	not determined		
Flash point			
Value			°C
Remarks	Not applicable		
pH value			
Value	14		
Concentration/H ₂ O	50	g/l	
Temperature	20		°C
Viscosity			
Remarks	Not applicable		
Solubility(ies)			
alcohol			
Remarks	soluble		
Vapour pressure			
Remarks	not determined		
Density and/or relative density			
Value	2.13		
Remarks	Relative Density according specification		

9.2. Other information

Solubility in water			
Value	1090		g/l
Temperature	20		°C
Explosive properties			
evaluation	Not applicable		

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

Corrosive to metals.

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

Reactions with metals, with evolution of hydrogen. Exothermic reaction with: strong acids, Reacts

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violently with water. Explosive, Metals, Oxidising agents, Water, Acids, Aluminium, Reactions with light metals. Acetone, Organic materials

10.6. Hazardous decomposition products

None under normal use.

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.

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.

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)

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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**

This substance does not have endocrine disrupting properties with respect to humans.

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

Remarks No data available.

Bacteria toxicity (Components)**sodium hydroxide**Species Photobacterium phosphoreum
EC50 22 mg/l

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Duration of exposure 15 min

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

Remarks No data available.

Biodegradability (Components)**sodium hydroxide**

evaluation not degradable

Ready degradability (Components)**sodium hydroxide**

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

12.4. Mobility in soil**Mobility in soil (Components)****sodium hydroxide**

Slightly mobile in soils

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.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

EWC waste code 06 02 04* sodium and potassium hydroxide

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.

Dispose of as unused product.

SECTION 14: Transport information

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	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 is not required.

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.