

Trade name: Natrii hydroxidi 30% solut

Substance number: 209375

Version: 7 / CH

Date revised: 17.01.2024

Replaces Version: 6 / CH

Print date: 17.01.24

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

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 *****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	>= 25 < 50 %
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**

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

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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.

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

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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**

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**

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)		
Appropriate Material	Gloves / resistant to chemicals	
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

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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
Appropriate Material	PVC
Material thickness	0.5 mm
Breakthrough time	>= 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**

Physical state	liquid
Colour	colourless
Odour	odourless
Melting point	
Value	0 °C
Boiling point or initial boiling point and boiling range	
Value	> 100 °C
Flammability	Not self inflammable
Flash point	
Value	°C
Remarks	Not applicable
pH value	
Value	14 to 15
Temperature	20 °C
Viscosity	
Remarks	No data available
Solubility(ies)	
Methanol	
Value	238 g/l
Temperature	20 °C
Remarks	Information refers to the main component.
Ethanol	
Value	139 g/l
Temperature	20 °C
Remarks	Information refers to the main component.
Vapour pressure	
Remarks	No data available
Density and/or relative density	
Value	appr. 1.34 g/cm ³
Temperature	20 °C

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9.2. Other information**Solubility in water**

Value	1090		g/l
Temperature	20	°C	

Other information

The product is not dangerous for explosions.

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

Reactions with 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

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 hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

ATE	1'083.33	mg/kg
	33	
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	4'500	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

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Source NLM HSDB

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

Remarks Strong corrosive action on the skin and mucous membrane.

Skin corrosion/irritation

Remarks 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**

Remarks strongly 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**

Remarks No sensitisation effect known.

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.

Experience in practice

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

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	

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.

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Ready degradability (Components)**sodium hydroxide**

Remarks

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

12.3. Bioaccumulative potential**General information**

Not applicable

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 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.

12.7. 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.

General information / ecology

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

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.

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

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	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 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.

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.