

Trade name: Sodium Hydroxide Solution 32% / Hyaltech

Substance number: 336030

Version: 1 / CH

Date revised: 31.10.2022

Replaces Version: - / CH

Print date: 17.11.22

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

1.1. Product identifier

Sodium Hydroxide Solution 32% / Hyaltech

Item No. 33603000

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

P264.1 Wash hands thoroughly after handling.

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

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 $\geq 0.5 < 2$ %Skin Corr. 1A H314 ≥ 5 Skin Corr. 1B H314 $\geq 2 < 5$ Skin Irrit. 2 H315 $\geq 0.5 < 2$ %**Further ingredients****water**

CAS No. 7732-18-5

EINECS no. 231-791-2

Concentration ≥ 50 %

Advice: [4]

Note

[4] Voluntary information

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.). Take medical treatment.

After ingestion

Do not induce vomiting. No trials on neutralisation. Let plenty of water be drunk in small gulps. Ensure supply of fresh air. Summon a doctor immediately.

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

Irritation of mucosa, Chemical burn, Vomiting

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

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

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

Carbon dioxide, Dry powder, Water spray jet, Extinguish greater fire with water spray or alcohol-resistant foam.

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

Wear full protective suit.

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

Dilute with lot of water. Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Clean contaminated surfaces, appropriate is: Slightly acid solution. Rinse away rest with plenty of water. Neutralize. When picked up, treat material as prescribed under Section 13 "Disposal". Ensure adequate ventilation.

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

When diluting, always stir product into water.

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

Not required.

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

Protect from frost. Keep container tightly closed.

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

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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		

8.2. Exposure controls**General protective and hygiene measures**

Hold eye wash fountain available. Keep away from food-stuffs, beverages and feed-stocks. Remove contaminated, soaked clothing immediately and dispose of safely. Wash hands before breaks and after work. Avoid contact with skin and eyes.

Respiratory protection

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

Hand protection

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

Form	liquid
pH value	
Value	> 14

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Melting point

Value 9 °C

Initial boiling point and boiling range

Value 116 °C

Flash point

Value °C

Remarks Not applicable

Flammability (solid, gas)

Not self inflammable

Vapour pressure

Value 23 hPa

DensityValue appr. 1.359 g/cm³**Solubility in water**

Remarks Completely miscible

9.2. Other information**Other information**

The product is not dangerous for explosions.

SECTION 10: Stability and reactivity**10.4. Conditions to avoid**

No decomposition if stored and applied as directed.

10.5. Incompatible materials

Exothermic reaction with acids. Reactions with metals, with evolution of hydrogen. Violent vapour formation under influence of water.

10.6. Hazardous decomposition products

None known

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**ATE 1'015.62 mg/kg
5

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 4'218.75 mg/kg
Method calculated value (Regulation (EC) No. 1272/2008)

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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

evaluation	strongly corrosive
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 sensitization effect known.

Sensitization (Components)**sodium hydroxide**

Remarks No sensitization 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**

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Remarks No data available

Experience in practice

After Swallowing: burns in mouth, throat, oesophagus and gastrointestinal tract. Risk of perforation in the oesophagus and stomach.

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity**

Species	Bluegill (<i>Lepomis macrochirus</i>)		
LC50	99		mg/l
Duration of exposure	48	h	
Species	rainbow trout (<i>Oncorhynchus mykiss</i>)		
LC50	45.4		mg/l
Duration of exposure	96	h	

Fish toxicity (Components)**sodium hydroxide**

Species	<i>Gambusia affinis</i>		
LC50	125		mg/l
Duration of exposure	96	h	

sodium hydroxide

Species	rainbow trout (<i>Oncorhynchus mykiss</i>)		
LC50	45.4		mg/l
Duration of exposure	96	h	

Daphnia toxicity

Species	<i>Daphnia magna</i>		
EC50	76		mg/l
Duration of exposure	24	h	

Daphnia toxicity (Components)**sodium hydroxide**

Species	<i>Daphnia</i>		
EC50	40.38		mg/l
Duration of exposure	48	h	
Remarks	Immobilization		

sodium hydroxide

Species	<i>Daphnia magna</i>		
EC50	76		mg/l
Duration of exposure	24	h	

Algae toxicity (Components)**sodium hydroxide**

Remarks No data available.

Bacteria toxicity (Components)**sodium hydroxide**

Species	<i>Photobacterium phosphoreum</i>		
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

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

12.6. Other adverse effects**General information / ecology**

Do not allow undiluted product or large quantities of it to reach 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.

EWC waste code

Should not be released into the sanitary sewer system.

In accordance with regulations for special waste, must be taken after pretreatment to an authorised special waste disposal site or incineration plant.

EWC waste code

06 03 99

wastes not otherwise specified

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, Solution	SODIUM HYDROXIDE SOLUTION, Solution	SODIUM HYDROXIDE SOLUTION, 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

SECTION 16: Other information

Hazard statements listed in Chapter 3

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

CLP categories listed in Chapter 3

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.