

Trade name: Natrii hydroxidi 30% solut

Substance number: 209251

Version: 3 / CH

Date revised: 16.12.2016

Replaces Version: 2 / CH

Print date: 16.12.16

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

1.1. Product identifier

Natrii hydroxidi 30% solut

Item No. 20925100

1.3. Details of the supplier of the safety data sheet

Address

Hänseler AG

Industriestrasse 35

9101 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.

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

Trade name: Natrii hydroxidi 30% solut

Substance number: 209251

Version: 3 / CH

Date revised: 16.12.2016

Replaces Version: 2 / CH

Print date: 16.12.16

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 (Regulation (EC) No. 1272/2008) *****Sodium hydroxide**

CAS No. 1310-73-2

EINECS no. 215-185-5

Concentration ≥ 25 < 50 %

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

Skin Corr. 1A H314

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

Skin Corr. 1B H314 $\geq 2 < 5$ Eye Irrit. 2 H319 $\geq 0.5 < 2$ Skin Irrit. 2 H315 $\geq 0.5 < 2$ Skin Corr. 1A H314 ≥ 5 **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

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.

Trade name: Natrii hydroxidi 30% solut

Substance number: 209251

Version: 3 / CH

Date revised: 16.12.2016

Replaces Version: 2 / CH

Print date: 16.12.16

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.

Further information on storage conditions

Protect from frost. 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; Status: 2014		

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

Trade name: Natrii hydroxidi 30% solut

Substance number: 209251

Version: 3 / CH

Date revised: 16.12.2016

Replaces Version: 2 / CH

Print date: 16.12.16

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, clear	
Colour	colourless	
Odour	odourless	
pH value ***		
Value	> 14	
Temperature	20	°C
Source	Safety Data Sheet Supplier	
Melting point ***		
Value	9	°C
Source	Safety Data Sheet Supplier	
Initial boiling point and boiling range		
Value	116	°C
Method	DIN 51761	
Source	Safety Data Sheet Supplier	
Flash point		
Value	°C	

Trade name: Natrii hydroxidi 30% solut

Substance number: 209251

Version: 3 / CH

Date revised: 16.12.2016

Replaces Version: 2 / CH

Print date: 16.12.16

Remarks Not applicable

Flammability (solid, gas)

Not self inflammable

Vapour pressure

Value 23 hPa

Temperature 20 °C

Source Safety Data Sheet Supplier

DensityValue 1.325 to 1.335 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****Skin corrosion/irritation**

evaluation strongly corrosive

Remarks Corrosive action on the skin and mucous membrane.

Serious eye damage/irritation

Remarks strongly corrosive

Sensitization

Remarks No sensitisation effect known.

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 (*Lepomis macrochirus*)

LC50 99 mg/l

Duration of exposure 48 h

Species rainbow trout (*Oncorhynchus mykiss*)

LC50 45.4 mg/l

Trade name: Natrii hydroxidi 30% solut

Substance number: 209251

Version: 3 / CH

Date revised: 16.12.2016

Replaces Version: 2 / CH

Print date: 16.12.16

Duration of exposure 96 h

Daphnia toxicity

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

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**Land transport ADR/RID****14.1. UN number**

UN 1824

14.2. UN proper shipping name

SODIUM HYDROXIDE SOLUTION

14.3. Transport hazard class(es)

Class	8
Label	8

14.4. Packing group

Packing group	II
Limited Quantity	1 I
Transport category	2
Tunnel restriction code	E

Marine transport IMDG/GGVSee**14.1. UN number**

UN 1824

14.2. UN proper shipping name

SODIUM HYDROXIDE SOLUTION

14.3. Transport hazard class(es)

Class	8
-------	---

14.4. Packing group

Packing group	II
---------------	----

Air transport ICAO/IATA**14.1. UN number**

UN 1824

14.2. UN proper shipping name

SODIUM HYDROXIDE SOLUTION

Trade name: Natrii hydroxidi 30% solut

Substance number: 209251

Version: 3 / CH

Date revised: 16.12.2016

Replaces Version: 2 / CH

Print date: 16.12.16

14.3. Transport hazard class(es)

Class 8

14.4. Packing group

Packing group II

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 Classification according to Annex 4 VwVwS

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.