

Trade name: Kalii hydroxidum in Schuppen

Substance number: 064728

Version: 3 / CH

Date revised: 12.04.2019

Replaces Version: 2 / CH

Print date: 01.10.19

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

1.1. Product identifier

Kalii hydroxidum in Schuppen

Item No. 06472800

Registration no.

EC No.: 215-181-3

CAS No. 1310-58-3

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

Acute Tox. 4 H302

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.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

Precautionary statements ***

P234 Keep only in original packaging.

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P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 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 *** Potassium hydroxide; Sodium hydroxide

SECTION 3: Composition/information on ingredients *****Chemical characterization**

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Hazardous ingredients *****Potassium hydroxide**

CAS No.	1310-58-3		
EINECS no.	215-181-3		
Registration no.	01-2119487136-33-XXXX		
Concentration	>= 91		%
Classification (Regulation (EC) No. 1272/2008)			
	Acute Tox. 4		H302
	Skin Corr. 1A		H314
	Met. Corr. 1		H290

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

Sodium hydroxide

CAS No.	1310-73-2		
EINECS no.	215-185-5		
Registration no.	01-2119457892-27-XXXX		
Concentration	>= 1	< 2	%
Classification (Regulation (EC) No. 1272/2008)			
	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

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Remove contaminated clothing immediately and dispose of safely.

After inhalation

Ensure supply of fresh air. In case of respiratory arrest induce breathing with a respiratory device. Seek medical advice.

After skin contact

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After contact with skin, wash immediately with plenty of water. After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take medical treatment.

After eye contact

Shield unaffected eye. In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

After ingestion

Ensure supply of fresh air. Rinse out mouth and give plenty of water to drink. Call in a physician immediately and show him the Safety Data Sheet. Do not induce vomiting. No trials on neutralisation.

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

Chemical burn, Muscle cramps or pains, bleeding vomiting

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

Risk of stomach perforation

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

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

5.2. Special hazards arising from the substance or mixture

If a fire breaks out nearby evolution of dangerous gases possible.

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

Use self-contained breathing apparatus. Wear full protective suit.

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

Keep away unprotected persons. Wear protective equipment. Forms slippery surfaces with water.

6.2. Environmental precautions

Do not allow to enter drains or waterways.

6.3. Methods and material for containment and cleaning up

For tall amounts: Take up mechanically and collect in suitable container for disposal. Clean contaminated surfaces, appropriate is: Slightly acid solution. Rinse away rest with plenty of water.

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

Keep container tightly closed. Provide suitable exhaust ventilation at processing machines. Avoid dust formation.

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**

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

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Hints on storage assembly

Do not store with acids.

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. Protect from atmospheric moisture and water. Product is hygroscopic.

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

List	SUVA	
Type	MAK	
Value	2	mg/m ³
Status: 2017; Remarks: Haut, OAWKT & AugeKT; NIOSH		

Sodium hydroxide

List	SUVA	
Type	MAK	
Value	2	mg/m ³
Short term exposure limit	2	mg/m ³
Pregnancy group: S; Status: 2017; Remarks: SSc; Haut, OAWKT & AugeKT; NIOSH, OSHA		

8.2. Exposure controls**Exposure controls**

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

General protective and hygiene measures

Keep away from food-stuffs, beverages and feed-stocks. Wash hands and face before breaks and after work. Avoid contact with skin and eyes. Wash hands and face after work. Do not inhale dust/fumes/mist. Hold eye wash fountain available.

Respiratory protection

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

Hand protection

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

Eye protection

Tightly fitting safety glasses

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Body protection

Alkali-resistant protective clothing

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

Form	Flakes		
Colour	white		
Odour	odourless		
pH value			
Value	14		
Concentration/H ₂ O	100	g/l	
Temperature	20	°C	
Melting point			
Value	406		°C
Initial boiling point and boiling range			
Value	1327		°C
Flash point			
Value			°C
Remarks	Not applicable		
Flammability (solid, gas)	Not ignitable		
Vapour pressure ***			
Value	1.3		hPa
Temperature	719	°C	
Density			
Value	0.8		g/cm ³
Solubility in water			
Value	1200		g/l
Temperature	25	°C	
Decomposition temperature			
Remarks	No decomposition if used as prescribed.		
Oxidising properties			
evaluation	None known		

9.2. Other information**Other information**

The product is not dangerous for explosions. Product is hygroscopic.

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

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Protect from atmospheric moisture and water.

10.5. Incompatible materials

Water, amines, Ammonia, Reactions with light metals, with evolution of hydrogen. strong acids, ammonium salts, halocarbons, Organic materials

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information *****11.1. Information on toxicological effects****Acute oral toxicity****Kalii hydroxidum in Schuppen**ATE 272.627 mg/kg
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Method calculated value (Regulation (EC) No. 1272/2008)

Acute oral toxicity (Components)**Potassium hydroxide**Species rat
LD50 273 mg/kg**Potassium hydroxide**Species rat
LD50 333 mg/kg
Method OECD 425**Sodium hydroxide**Species rat
LD50 2000 mg/kg**Skin corrosion/irritation (Components)****Potassium hydroxide**Species rabbit
Duration of exposure 24 h
evaluation corrosive
Method OECD 405**Serious eye damage/irritation (Components) *******Potassium hydroxide**Species rabbit
evaluation strongly corrosive
Method OECD 405
Remarks Influence of the product with the eyes can lead to blindness.**Sensitization (Components)****Potassium hydroxide**Species guinea pig
evaluation non-sensitizing
Source Literature value**Specific Target Organ Toxicity (STOT) (Components)****Potassium hydroxide**

Remarks Not applicable

Experience in practice

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

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SECTION 12: Ecological information ***

12.1. Toxicity

Fish toxicity (Components)

Potassium hydroxide

Species	Gambusia affinis		
LC50	80		mg/l
Duration of exposure	96	h	

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)

Potassium 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)

Potassium hydroxide

Will not adsorb on soil.

12.5. Results of PBT and vPvB assessment

Evaluation of persistence and bioaccumulation potential (Components)

Potassium hydroxide

The Substance doesn't meets PBT/vPvB-criteria

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12.6. Other adverse effects

General information / ecology

Neutralization is normally necessary before waste water is discharged into water treatment plants. 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 to an authorised special waste disposal site or incineration plant.

Disposal recommendations for packaging

Uncontaminated packaging may be taken for recycling.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	E		
14.1. UN number	1813	1813	1813
14.2. UN proper shipping name	POTASSIUM HYDROXIDE, SOLID	POTASSIUM HYDROXIDE, SOLID	POTASSIUM 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

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SECTION 16: Other information

Hazard statements listed in Chapter 3

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.

CLP categories listed in Chapter 3

Acute Tox. 4	Acute toxicity, Category 4
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.