

Trade name: Kalii hydroxidi 40% solut

Substance number: 208751

Version: 2 / CH

Date revised: 16.12.2016

Replaces Version: 1 / CH

Print date: 16.12.16

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

1.1. Product identifier

Kalii hydroxidi 40% solut

Item No. 20875100

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)

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

H302 Harmful if swallowed.

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.

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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 Potassium hydroxide

SECTION 3: Composition/information on ingredients *****Hazardous ingredients (Regulation (EC) No. 1272/2008) *******Potassium hydroxide**

CAS No.	1310-58-3			
EINECS no.	215-181-3			
Registration no.	01-2119487136-33-XXXX			
Concentration	>= 25	<	50	%
Classification (Regulation (EC) No. 1272/2008)				
	Acute Tox. 4		H302	
	Skin Corr. 1A		H314	

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

Skin Irrit. 2	H315	>= 0.5 < 2
Eye Irrit. 2	H319	>= 0.5 < 2
Skin Corr. 1A	H314	>= 5
Skin Corr. 1B	H314	>= 2 < 5

Further ingredients**Water**

CAS No.	7732-18-5			
EINECS no.	231-791-2			
Concentration		>=	50	%
Advice: [4]				

Advice:

[4] Voluntary information

SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Ensure supply of fresh air. Summon a doctor immediately.

After skin contact

After contact with skin, wash immediately with plenty of water. Remove contaminated, soaked clothing immediately and dispose of safely. Summon a doctor immediately.

After eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Summon a doctor immediately.

After ingestion

Drink water in small gulps. Do not induce vomiting - aspiration hazard. Summon a doctor immediately. No trials on neutralisation.

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

Extinguishing measures to suit surroundings

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5.2. Special hazards arising from the substance or mixture

The product is not combustible.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus. Wear protective clothing.

Other information

Do not discharge into surface waters/groundwater.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not inhale dust.

6.2. Environmental precautions

Do not empty into drains.

6.3. Methods and material for containment and cleaning up

Pump off large amounts. Send in suitable containers for recovery or disposal. Clean up affected area.

6.4. Reference to other sections

Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Observe safety references and application instructions mentioned on can.

7.2. Conditions for safe storage, including any incompatibilities

Recommended storage temperature

Value 5 - 30

Requirements for storage rooms and vessels

Keep container tightly closed and dry. Do not use aluminium containers. Do not use zinc containers.

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:	2014

8.2. Exposure controls

General protective and hygiene measures

Remove contaminated, soaked clothing immediately and dispose of safely. Preventative skin protection. Wash hands and face after work.

Respiratory protection

Breathing apparatus in the event of vapours. Breathing apparatus in the event of aerosol or mist formation.

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Hand protection

Gloves
 Appropriate Material nitrile rubber - NBR
 Material thickness 0.11 mm
 Breakthrough time > 480 min

Eye protection

Tightly fitting safety glasses

Body protection

protective overalls

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 > 13.1
 Temperature 20 °C
Initial boiling point and boiling range
 Remarks No data available
Flash point
 Value °C
 Remarks Not applicable
Density
 Value 1.390 to 1.405 g/ml
Solubility in water
 Remarks soluble

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

Exothermic reaction with: Water

10.5. Incompatible materials

Reacts violently with: Metals, Reactions with light metals. Reaction with ammonium compounds,
 Reactions with earth alkali metals. Halogens, halocarbons, phosphorus, carbon, strong acids,
 Incompatible with: Metals

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**

ATE 574.736 mg/kg
 8

Method calculated value (Regulation (EC) No. 1272/2008)

Acute oral toxicity (Components)**Potassium hydroxide**

Species rat
 LD50 273 mg/kg

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Acute dermal toxicity (Components)**Potassium hydroxide**

Remarks No data available.

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

Remarks No data available.

Skin corrosion/irritationSpecies rabbit
evaluation strongly corrosive**Skin corrosion/irritation (Components)****Potassium hydroxide**Species rabbit
Duration of exposure 24 h
evaluation corrosive
Method OECD 405**Serious eye damage/irritation**evaluation strongly corrosive
Remarks Risk of serious damage to eyes.
Remarks Influence of the product with the eyes can lead to blindness.**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**Species guinea pig
Remarks negative**Sensitization (Components)****Potassium hydroxide**

Remarks No data available.

Mutagenicity (Components)**Potassium hydroxide**

Remarks No data available.

Reproduction toxicity (Components)**Potassium hydroxide**

Remarks not determined

Carcinogenicity (Components)**Potassium hydroxide**

Remarks No evidence available on carcinogenicity.

Experience in practice

Causes burns. Irritation. When swallowed, there is a danger of blindness. After Swallowing: burns in mouth, throat, oesophagus and gastrointetinal tract. Risk of perforation in the oesophagus and stomach.

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

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Fish toxicity (Components)**Potassium hydroxide**

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

Daphnia toxicity (Components)**Potassium hydroxide**

Remarks No data available.

Algae toxicity (Components)**Potassium hydroxide**

Remarks No data available.

12.2. Persistence and degradability**Biodegradability**

Remarks No data available.

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

Do not allow it to reach ground water, water bodies or sewage system. The product causes changes in the pH value in the test system. The result relates to the unneutralized sample. Harmful to aquatic organisms.

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

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Dispose of as unused product.

SECTION 14: Transport information *****Land transport ADR/RID****14.1. UN number**

UN 1814

14.2. UN proper shipping name

POTASSIUM HYDROXIDE SOLUTION, 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 1814

14.2. UN proper shipping name

POTASSIUM HYDROXIDE SOLUTION, Solution

14.3. Transport hazard class(es)

Class	8
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14.4. Packing group

Packing group II

14.1. UN number

UN 1813

14.2. UN proper shipping name

POTASSIUM HYDROXIDE, SOLID, 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 1814

14.2. UN proper shipping name

POTASSIUM HYDROXIDE SOLUTION, Solution

14.3. Transport hazard class(es)

Class 8

14.4. Packing group

Packing group II

14.1. UN number

UN 1813

14.2. UN proper shipping name

POTASSIUM HYDROXIDE, SOLID, Solution

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 WGK 3

(Germany)

Remarks Classification according to Annex 4 VwVwS

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information**Hazard statements listed in Chapter 3**

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

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.