

Trade name: Kalii hydroxidum in rotul

Substance number: 064712

Version: 6 / CH

Date revised: 05.06.2023

Replaces Version: 5 / CH

Print date: 05.06.23

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

1.1. Product identifier

Kalii hydroxidum in rotul

Item No. 06471200

Substance / product identification

REACH Registry No. 01-2119487136-33

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/preparation

food additive, Manufacture of pharmaceutical products

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.

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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.
 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

2.3. Other hazards

The Substance does not meet PBT-criteria. This substance does not meet the vPvB-criteria. This substance does not have endocrine disrupting properties with respect to humans. This substance does not have endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients**3.1. Substances****Molecular weight**

Value	56.11	g/mol
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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

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	273 mg/kg

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

Remove the casualty into fresh air and keep him calm. Summon a doctor immediately.

After skin contact

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

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

After ingestion

Let plenty of water be drunk in small gulps. Do not induce vomiting. Summon a doctor immediately.

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

Chemical burn

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

Extinguishing measures to suit surroundings

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. Use personal 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**

Ensure supply of fresh air. Do not inhale dust.

6.2. Environmental precautions

Do not empty into drains.

6.3. Methods and material for containment and cleaning up

Take up mechanically and collect in suitable container for disposal.

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**Requirements for storage rooms and vessels**

Do not use glass containers.

Hints on storage assembly

Do not store together with: Aluminium, Zinc

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 in a cool, well-ventilated place.

7.3. Specific end use(s)

food additive; Manufacture of pharmaceutical products

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

potassium hydroxide

List	SUVA	
Type	MAK	
Value	2	mg/m ³

Remarks: Haut, OAWKT & AugeKT; NIOSH

8.2. Exposure controls

General protective and hygiene measures

Wash contaminated clothing before reuse. Wash hands and face after work. Preventative skin protection.

Respiratory protection

Breathing apparatus in the event of aerosol. Particle filter A/P2

Hand protection

Gloves			
Appropriate Material	nitrile rubber - NBR		
Material thickness	0.4	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

Physical state	solid		
Colour	white		
Odour	odourless		
Melting point			
Value	360		°C
Boiling point or initial boiling point and boiling range			
Value	1320		°C
Flash point			
Remarks	Not applicable		
Ignition temperature			
Remarks	Not applicable		
pH value			
Value	appr. 14		
Concentration/H ₂ O	56	g/l	
Temperature	20		°C
Vapour pressure			
Temperature	20		°C
Remarks	Not applicable		
Density and/or relative density			

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Value	2.04		g/cm ³
Temperature	20	°C	

9.2. Other information**Solubility in water**

Value	1130		g/l
Temperature	20	°C	

Other information

Product is hygroscopic.

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

Exothermic reaction with: Water

10.2. Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3. Possibility of hazardous reactions

Possible incompatibility with materials listed under section 10.5.

10.4. Conditions to avoid

No decomposition if stored and applied as directed.

10.5. Incompatible materialsViolent and explosive reaction with water. Risk of explosion with: peroxides, chlorine liquid, Exothermic reaction with: Aldehydes, acetic acid anhydride, peroxides, Hydrogen sulfide (H₂S), hydrogen peroxide (H₂O₂). Reducing agents, Acids, Reactions with alcohols. Avoid contact with: Metals, glass**10.6. Hazardous decomposition products**

Hydrogen chloride (HCl)

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

ATE	273	mg/kg
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	

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

Remarks No data available.

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

Remarks No data available.

Skin corrosion/irritation (Components)

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potassium hydroxide

Species	rabbit
Duration of exposure evaluation	24 h
Method	corrosive 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

Subacute, subchronic, chronic toxicity (Components)**potassium hydroxide**

Remarks	No data available.
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Mutagenicity

Species	Escherichia coli
evaluation	No mutagenicity in the Ames-test.

Mutagenicity (Components)**potassium hydroxide**

evaluation	No mutagenicity in the Ames-test.
Source	Literature value

Reproductive toxicity

Remarks	No data available.
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Reproduction toxicity (Components)**potassium hydroxide**

Remarks	not determined
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Carcinogenicity

Remarks	No evidence available on carcinogenicity.
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Carcinogenicity (Components)**potassium hydroxide**

Remarks	No evidence available on carcinogenicity.
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Specific Target Organ Toxicity (STOT) (Components)**potassium hydroxide**

Remarks	Not applicable
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11.2 Information on other hazards**Endocrine disrupting properties with respect to humans**

This substance does not have endocrine disrupting properties with respect to humans.

Experience in practice

inhalation. Causes burns. After Swallowing: burns in mouth, throat, oesophagus and gastrointestinal tract. Risk of perforation in the oesophagus and stomach. Skin contact. Causes burns. Eye contact. Causes burns.

Other information

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Observe the usual precautions for handling chemicals.

SECTION 12: Ecological information

12.1. Toxicity

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.

Bacteria toxicity (Components)

potassium hydroxide

Remarks No data available.

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

Results of PBT and vPvB assessment

The Substance does not meet PBT-criteria.

This substance does not meet the vPvB-criteria.

12.6 Endocrine disrupting properties

Endocrine disrupting properties with respect to the environment

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

General information / ecology

Harmful to aquatic organisms. Do not allow it to reach ground water, water bodies or sewage system.

Neutralization is normally necessary before waste water is discharged into water treatment plants.

SECTION 13: Disposal considerations

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13.1. Waste treatment methods**Disposal recommendations for the product**

Disposal in compliance with local and national regulations.

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	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

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.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

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CLP categories listed in Chapter 3

Acute Tox. 4	Acute toxicity, Category 4
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.