

Trade name: Kalii nitras

Substance number: 064832

Version: 4 / CH

Date revised: 04.09.2019

Replaces Version: 3 / CH

Print date: 04.09.19

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Kalii nitras

Item No. 06483200

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/preparation**

Reagent for analyses, Manufacture of pharmaceutical products, Manufacture of cosmetics

**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)

Ox. Sol. 3 H272

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 \*\*\***

Warning

**Hazard statements \*\*\***

H272 May intensify fire; oxidizer.

**Precautionary statements \*\*\***

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P221 Take any precaution to avoid mixing with combustibles...

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P501.3 Disposal in compliance with local and national regulations.

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**SECTION 3: Composition/information on ingredients \*\*\*****Molecular weight**

Value	101.10	g/mol
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**Further ingredients \*\*\*****potassium nitrate**

CAS No. 7757-79-1

EINECS no. 231-818-8

Registration no. 01-2119488224-35-XXXX

Concentration  $\geq$  95 %

Advice: [4]

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

Ox. Sol. 3 H272

**Note**

[4] Voluntary information

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

Ensure supply of fresh air.

**After skin contact**

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

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). Seek medical advice immediately.

**After ingestion**

Drink water in small gulps. By continuous complaints consult a physician.

**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. The product supports fire. If a fire breaks out nearby evolution of dangerous gases possible. In the event of fire the following can be released: Nitrous gases (NOx)

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

Use self-contained breathing apparatus.

**Other information**

Do not discharge into surface waters/groundwater. Collect contaminated fire-fighting water separately, must not be discharged into the drains. Suppress vapours with water spray jet.

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

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

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**6.2. Environmental precautions**

Do not empty into drains.

**6.3. Methods and material for containment and cleaning up**

Pick up mechanically. When picked up, treat material as prescribed under Section 13 "Disposal". Clean up affected area. Avoid raising dust.

**SECTION 7: Handling and storage****7.2. Conditions for safe storage, including any incompatibilities****Storage classes**

Storage class according to TRGS 510

5.1B

Oxidising hazardous substances

Storage category (Switzerland)

5

Oxidizing substances, organic peroxides

**Further information on storage conditions**

Keep container tightly closed and dry. Keep away from sources of ignition. Protect from warmth.

**SECTION 8: Exposure controls/personal protection****8.2. Exposure controls****General protective and hygiene measures**

Remove contaminated, soaked clothing immediately and dispose of safely. Wash hands before breaks and after work.

**Respiratory protection**

Breathing apparatus in the event of aerosol.

**Hand protection**

Gloves

Appropriate Material

nitrile

Material thickness

0.11

mm

Breakthrough time

&gt;

480

min

**Eye protection**

Safety glasses

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

solid

**Colour**

white

**Odour**

odourless

**pH value**

Value

5.0

to

7.5

Concentration/H<sub>2</sub>O

50

g/l

Temperature

20

°C

**Melting point**

Value

334

°C

**Initial boiling point and boiling range**

Remarks

Not applicable

**Flash point**

Remarks

Not applicable

**Flammability (solid, gas)**

Oxidizing

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**Upper/lower flammability or explosive limits**

Remarks Not applicable

**Vapour pressure**

Remarks Not applicable

**Density**

Remarks not determined

**Solubility in water**

Value	320		g/l
Temperature	20	°C	

**Ignition temperature**

Remarks Not applicable

**Decomposition temperature**

Value	> 400	°C
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**Viscosity****dynamic**

Remarks No data available

**9.2. Other information****Bulk density**

Value	appr. 800	kg/m <sup>3</sup>
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**SECTION 10: Stability and reactivity****10.1. Reactivity**

No decomposition if stored and applied as directed.

**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**

Flames. Keep away from sources of heat and ignition.

**10.5. Incompatible materials**

Risk of explosion with: Metals, combustible substances, organic substances, sulfides, Boron, Alkaline metals, carbon, sulphur, phosphides, phosphorus, Magnesium, cyanide, peroxides, nitride, Fluorine, halocarbons, Risk of ignition or formation of inflammable gases or vapours with: calcium silicide

**10.6. Hazardous decomposition products**nitrous oxides (NO<sub>x</sub>), Nitrous gases**SECTION 11: Toxicological information \*\*\*****11.1. Information on toxicological effects****Acute oral toxicity (Components)****potassium nitrate**

Species	rat		
LD50	3750		mg/kg

**potassium nitrate**

Species	rat
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LD50	3015	mg/kg
Source	IUCLID	

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

Species	rat	
LD50	> 5000	mg/kg
Method	OECD 402	

**Serious eye damage/irritation (Components)****potassium nitrate**

evaluation	non-irritant
Method	OECD 437

**potassium nitrate**

evaluation	slightly irritant
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**Sensitization (Components)****potassium nitrate**

Species	mouse
evaluation	non-sensitizing
Method	OECD 429
Remarks	Test conducted with a similar formulation.

**Mutagenicity (Components)****potassium nitrate**

Species	Salmonella typhimurium
evaluation	No mutagenicity in the Ames-test.

**potassium nitrate**

evaluation	No mutagenicity according to various in vitro tests.
Method	OECD 476
Source	BM000052 ex80 safety data sheet 20151027.pdf

**Reproduction toxicity (Components)****potassium nitrate**

Route of exposure	oral
Species	guinea pig
Dose	10000 ppm(m)

**Experience in practice**

After Swallowing: Irritates the mucous membrane. nausea. vomiting. diarrhea. After resorption of toxic quantities: methaemoglobinaemia. headache. cardiac dysrhythmia. hypotension. dyspnea. spasms. cyanosis

**Other information**

Observe the usual precautions for handling chemicals.

**SECTION 12: Ecological information \*\*\*****12.1. Toxicity****Fish toxicity (Components)****potassium nitrate**

Species	rainbow trout (Oncorhynchus mykiss)
LC50	> 98.9 mg/l
Duration of exposure	96 h

**potassium nitrate**

Species	guppy (Poecilia reticulata)
LC50	191 mg/l

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Duration of exposure 96 h

**Daphnia toxicity (Components)****potassium nitrate**

Species	Daphnia magna	
EC50	490	mg/l
Duration of exposure	48	h

**Algae toxicity (Components)****potassium nitrate**

LC50	> 1700	mg/l
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**Bacteria toxicity (Components)****potassium nitrate**

Species	activated sludge	
EC50	> 1000	mg/l
Duration of exposure	3	h
Method	OECD 209	

**12.5. Results of PBT and vPvB assessment****General information**

not determined

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

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

**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 \*\*\***

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	Land transport ADR/RID ***	Marine transport IMDG/GGVSee ***	Air transport ICAO/IATA ***
Tunnel restriction code	E		
14.1. UN number	1486	1486	1486
14.2. UN proper shipping name	POTASSIUM NITRATE	POTASSIUM NITRATE	POTASSIUM NITRATE
14.3. Transport hazard class(es)	5.1	5.1	5.1
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 kg		
Transport category	3		

## 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

### 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.