

Trade name: Kalii nitras

Substance number: 064832

Version: 5 / CH

Date revised: 17.05.2022

Replaces Version: 4 / CH

Print date: 17.05.22

## **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		>=	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. Particle filter P1; EN 143

**Hand protection**

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

**Eye protection**

Safety glasses

**Body protection**

Protective clothing

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

<b>Form</b>	crystalline		
<b>Colour</b>	white		
<b>pH value</b>			
Value	5.0	to	7.5
Concentration/H <sub>2</sub> O	50	g/l	
Temperature	20	°C	
<b>Melting point</b>			
Value	334		°C
<b>Initial boiling point and boiling range</b>			
Remarks	Not applicable		
<b>Flash point</b>			
Remarks	Not applicable		

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**Flammability (solid, gas)**

Oxidizing

**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 &gt; 400 °C

**Viscosity****dynamic**

Remarks No data available

**9.2. Other information****Bulk density**Value appr. 800 kg/m<sup>3</sup>**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

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**potassium nitrate**

Species	rat		
LD50		3015	mg/kg
Source	IUCLID		

**potassium nitrate**

Species	rat		
LD50	>	2000	mg/kg
Method	OECD 425		

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

Species	rat		
LD50	>	5000	mg/kg
Method	OECD 402		

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

Species	rat		
LC50	>	0.527	mg/l
Duration of exposure		4	h
Method	OECD 403		

**Skin corrosion/irritation (Components)****potassium nitrate**

Species	rabbit		
Observation Period		4	h
evaluation	non-irritant		
Method	OECD 404		

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

evaluation	non-irritant		
Method	OECD 437		

**potassium nitrate**

evaluation	slightly irritant		
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**potassium nitrate**

Species	rabbit		
evaluation	non-irritant		
Method	OECD 405		

**Sensitization (Components)****potassium nitrate**

Species	mouse		
evaluation	non-sensitizing		
Method	OECD 429		

**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		

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

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

**Carcinogenicity (Components)****potassium nitrate**

evaluation No negative effects

**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 ( <i>Oncorhynchus mykiss</i> )
LC50	> 98.9 mg/l
Duration of exposure	96 h

**potassium nitrate**

Species	guppy ( <i>Poecilia reticulata</i> )
LC50	191 mg/l
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
Duration of exposure	10 d

**Bacteria toxicity (Components)****potassium nitrate**

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

**12.2. Persistence and degradability****Biodegradability (Components)****potassium nitrate**

Remarks Inorganic product, cannot be eliminated from the water by biological purification processes.

**12.3. Bioaccumulative potential****General information**

No data available

**12.4. Mobility in soil**

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**Mobility in soil (Components)****potassium nitrate**

Will not adsorb on soil.

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

No data available

**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**

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	E		
<b>14.1. UN number</b>	1486	1486	1486
<b>14.2. UN proper shipping name</b>	POTASSIUM NITRATE	POTASSIUM NITRATE	POTASSIUM NITRATE
<b>14.3. Transport hazard class(es)</b>	5.1	5.1	5.1
Label			
<b>14.4. Packing group</b>	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

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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 not been carried out.

## **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.