

Trade name: Kalii carbonas

Substance number: 064488

Version: 5 / CH

Date revised: 07.09.2023

Replaces Version: 4 / CH

Print date: 07.09.23

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

### **1.1. Product identifier**

Kalii carbonas

Item No. 06448800

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

#### **Use of the substance/preparation**

industry

### **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)

Skin Irrit. 2 H315

Eye Irrit. 2 H319

STOT SE 3 H335

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**

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H335

May cause respiratory irritation.

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

P261

Avoid breathing dust/fume/gas/mist/vapours/spray.

Trade name: Kalii carbonas

Substance number: 064488

Version: 5 / CH

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Replaces Version: 4 / CH

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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.  
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
 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 carbonate

**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****Molecular weight**

Value	138.21	g/mol
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**Hazardous ingredients****potassium carbonate**

CAS No.	584-08-7	
EINECS no.	209-529-3	
Registration no.	01-2119532646-36-XXXX	
Concentration	>= 50	%
Classification (Regulation (EC) No. 1272/2008)		
	Skin Irrit. 2	H315
	Eye Irrit. 2	H319
	STOT SE 3	H335

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

Remove contaminated, soaked clothing immediately and dispose of safely.

**After inhalation**

Ensure supply of fresh air. In the event of symptoms take medical treatment. If breathing is irregular or stopped, administer artificial respiration.

**After skin contact**

After contact with skin, wash immediately with plenty of water. Consult a doctor if skin irritation persists.

**After eye contact**

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

**After ingestion**

Rinse out mouth and give plenty of water to drink. By continuous complaints consult a physician.

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

Coughing, Irritating to respiratory system. Irritation of mucosa

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

Trade name: Kalii carbonas

Substance number: 064488

Version: 5 / CH

Date revised: 07.09.2023

Replaces Version: 4 / CH

Print date: 07.09.23

**Suitable extinguishing media**

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

**Non suitable extinguishing media**

Full water jet

**5.2. Special hazards arising from the substance or mixture**

Carbon monoxide (CO)

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

No special measures required. Use self-contained breathing apparatus. Use personal protective clothing.

**Other information**

Collect contaminated fire-fighting water separately, must not be discharged into the drains.

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

Use personal protective clothing. Keep away unprotected persons. Ensure adequate ventilation. Avoid contact with eyes and skin. Do not inhale dust.

**6.2. Environmental precautions**

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil.

**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. Flush away residues with hot water.

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

Avoid dust formation. Keep container tightly closed. Ensure adequate ventilation. For personal protection see Section 8. Avoid contact with skin, eyes and clothing.

**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. Keep in original packaging, tightly closed. Unsuitable packaging materials: aluminium, zinc, copper

**Hints on storage assembly**

Do not store with acids. Do not store together with animal feedstocks.

**Storage classes**

Storage class according to TRGS 510

13

Non- combustible solids

Storage category (Switzerland)

11/13

Other solid hazardous substances with classification/labelling hazardous

**Further information on storage conditions**

Keep container tightly closed and dry in a cool, well-ventilated place. Product is hygroscopic. Protect from atmospheric moisture and water.

**SECTION 8: Exposure controls/personal protection \*\*\***

Trade name: Kalii carbonas

Substance number: 064488

Version: 5 / CH

Date revised: 07.09.2023

Replaces Version: 4 / CH

Print date: 07.09.23

## 8.1. Control parameters

### Derived No/Minimal Effect Levels (DNEL/DMEL) \*\*\*

#### potassium carbonate

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	10	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	10	mg/m <sup>3</sup>

## 8.2. Exposure controls

### General protective and hygiene measures

Keep away from food-stuffs, beverages and feed-stocks. Wash hands before breaks and after work. At work do not eat, drink, smoke or take drugs. Avoid contact with skin and eyes. Hold eye wash fountain available. Do not inhale dust/fumes/aerosols.

### Respiratory protection

Breathing apparatus in the event of aerosol. Particle filter P2; Particle filter P3; Respiratory protection according to EN141

### Hand protection

Protective gloves			
Appropriate Material	Natural Latex		
Material thickness	0.5	mm	
Breakthrough time	> 8	h	
Protective gloves			
Appropriate Material	Polychloroprene		
Material thickness	0.5	mm	
Breakthrough time	> 8	h	
Protective gloves			
Appropriate Material	nitrile		
Material thickness	0.35	mm	
Breakthrough time	> 8	h	
Protective gloves			
Appropriate Material	Butyl rubber - Butyl		
Material thickness	0.5	mm	
Breakthrough time	> 8	h	
Protective gloves			
Appropriate Material	PVC		
Material thickness	0.4	mm	
Breakthrough time	> 8	h	
Protective gloves			
Appropriate Material	Fluoro carbon rubber - FKM		
Material thickness	0.5	mm	
Breakthrough time	> 8	h	
Hand protection must comply with EN 374.			

### Eye protection

Trade name: Kalii carbonas

Substance number: 064488

Version: 5 / CH

Date revised: 07.09.2023

Replaces Version: 4 / CH

Print date: 07.09.23

Tightly fitting safety glasses

**Body protection**

Clothing as usual in the chemical industry.

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

<b>Physical state</b>	Powder to fine granulates		
<b>Colour</b>	white		
<b>Odour</b>	odourless		
<b>Melting point</b>			
Value	appr. 891		°C
Method	DIN 51761		

**Boiling point or initial boiling point and boiling range**

Remarks not determined

**Flammability**

Not ignitable

**Flash point**

Value	°C
Remarks	Not applicable

**pH value**

Value	12		
Concentration/H <sub>2</sub> O	100	g/l	
Temperature	20	°C	

**Vapour pressure**

Remarks Not applicable

**Density and/or relative density**

Value	appr. 2.43			g/cm <sup>3</sup>
Temperature	19	°C		

**9.2. Other information****Solubility in water**

Value	1100			g/l
Temperature	20	°C		

**Bulk density**

Value	500	to	600	kg/m <sup>3</sup>
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**Other information**

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

**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**

Trade name: Kalii carbonas

Substance number: 064488

Version: 5 / CH

Date revised: 07.09.2023

Replaces Version: 4 / CH

Print date: 07.09.23

Protect from frost. Heat. Protect from direct sunlight. Protect from atmospheric moisture and water.  
Sensitive to moisture.

**10.5. Incompatible materials**

Exothermic reaction with acids. Strong oxidising agents

**10.6. Hazardous decomposition products**

In the event of fire the following can be released: Carbon monoxide and carbon dioxide

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

Species	rat		
LD50	>	2000	mg/kg
Method	OECD 401		

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

Species	rabbit		
LD50	>	2000	mg/kg
Method	EPA		

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

Species	rat		
LD50	>	4.96	mg/l
Duration of exposure		4.5	h
Method	EPA		

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

evaluation	irritant
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**Serious eye damage/irritation (Components)****potassium carbonate**

Species	rabbit
evaluation	strongly irritant

**Sensitization (Components)****potassium carbonate**

Route of exposure	dermal
Species	guinea pig
evaluation	non-sensitizing
Method	EPA

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

Route of exposure	oral		
Species	rat (male)		
NOAEL		2667	mg/kg/d
Duration of exposure		18	Months

**potassium carbonate**

Route of exposure	oral		
Species	rat (female)		
NOAEL		3331	mg/kg/d

Trade name: Kalii carbonas

Substance number: 064488

Version: 5 / CH

Date revised: 07.09.2023

Replaces Version: 4 / CH

Print date: 07.09.23

Duration of exposure	18	Months	
<b>potassium carbonate</b>			
Route of exposure	inhalative		
Species	Rats (male/female)		
NOAEC	0.062		mg/l
Duration of exposure	6	h	
Method	OECD 412		

**Mutagenicity (Components)**

**potassium carbonate**  
evaluation No experimental indications on genotoxicity in vivo found.

**potassium carbonate**  
Species Salmonella typhimurium  
evaluation No mutagenicity in the Ames-test.  
Method OECD 471  
Remarks negative

**potassium carbonate**  
evaluation No experimental information on genotoxicity in vitro available.

**Reproduction toxicity (Components)**

**potassium carbonate**  
Remarks Indications of toxic effects are available from reproduction studies in animals.

**Carcinogenicity (Components)**

**potassium carbonate**  
Remarks negative on animals

**Specific Target Organ Toxicity (STOT) (Components)**

**potassium carbonate**  
**Single exposure**  
evaluation May cause respiratory irritation.

**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.

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

**potassium carbonate**  
Species rainbow trout (*Oncorhynchus mykiss*)  
LC50 68 mg/l  
Duration of exposure 96 h  
Method Flow test; FIFRA Guideline 72-1

**potassium carbonate**  
Species rainbow trout (*Oncorhynchus mykiss*)  
NOEC 33 mg/l  
Duration of exposure 96 h  
Method Flow test; FIFRA Guideline 72-1

**Daphnia toxicity (Components)**

**potassium carbonate**  
Species *Daphnia pulex*

Trade name: Kalii carbonas

Substance number: 064488

Version: 5 / CH

Date revised: 07.09.2023

Replaces Version: 4 / CH

Print date: 07.09.23

EC50	200	mg/l
Duration of exposure	48 h	
Method	static test; FIFRA Guideline 72-1	

**potassium carbonate**

Species	Daphnia pulex	
NOEC	120	mg/l
Duration of exposure	48 h	
Method	static test; FIFRA Guideline 72-1	

**12.2. Persistence and degradability****General information**

No data available

**Biodegradability (Components)****potassium carbonate**

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****General information**

There is no data available on the product apart from the information given in this subsection.

**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**

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. 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**



Trade name: Kalii carbonas

Substance number: 064488

Version: 5 / CH

Date revised: 07.09.2023

Replaces Version: 4 / CH

Print date: 07.09.23

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	The product does not constitute a hazardous substance in land transport.	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.

## **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**

#### **Hazard statements listed in Chapter 3**

H315      Causes skin irritation.  
H319      Causes serious eye irritation.  
H335      May cause respiratory irritation.

#### **CLP categories listed in Chapter 3**

Eye Irrit. 2      Eye irritation, Category 2  
Skin Irrit. 2      Skin irritation, Category 2  
STOT SE 3      Specific target organ toxicity - single exposure, Category 3

#### **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.