

# SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

## potassium carbonate

Creation date	01st June 2021	Version	1.3
Revision date	30th August 2024		

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

- 1.1. Product identifier**  
Substance / mixture: potassium carbonate  
Chemical name: substance  
CAS number: potassium carbonate  
EC (EINECS) number: 584-08-7  
Registration number: 209-529-3  
01-2119532646-36-0000
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Substance's intended use**  
Ingredient for cosmetics. Food additive. Parenteral applications. Medicinal products.  
**Substance uses advised against**  
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- 1.3. Details of the supplier of the safety data sheet**  
**Distributor**  
Name or trade name: Macco Organiques, s.r.o.  
Address: Zahradní 1938/46c, Bruntál 1, 792 01  
Czech Republic  
Identification number (CRN): 26819210  
VAT Reg No: CZ26819210  
Phone: +420 555 530 300  
E-mail: macco@macco.cz  
**Competent person responsible for the safety data sheet**  
Name: Petr Ševčík  
E-mail: petr.sevcik@macco.cz
- 1.4. Emergency telephone number**  
European emergency number: 112

### SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**  
**Classification of the substance in accordance with Regulation (EC) No 1272/2008**

The substance is classified as dangerous.

Skin Irrit. 2, H315  
Eye Irrit. 2, H319  
STOT SE 3, H335

#### Most serious adverse effects on human health and the environment

Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

- 2.2. Label elements**

#### Hazard pictogram



#### Signal word

Warning

#### Dangerous substance

potassium carbonate  
(EC: 209-529-3; CAS: 584-08-7)

#### Hazard statements

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

#### Precautionary statements

P261	Avoid breathing dust.
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P264 Wash face, hands and exposed parts of the body thoroughly after handling.  
P280 Wear protective gloves/eye protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

### 2.3. Other hazards

The substance does not have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

#### Chemical characterization

The substance specified below.

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 584-08-7 EC: 209-529-3 Registration number: 01-2119532646-36-0000	<b>substance main component</b> potassium carbonate	≥99	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	

Full text of all classifications and hazard statements is given in the section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

#### If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

#### If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

#### If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

#### If swallowed

Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment if the person has any health problems.

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

#### If inhaled

May cause respiratory irritation.

#### If on skin

Causes skin irritation.

#### If in eyes

Causes serious eye irritation.

#### If swallowed

Irritation, nausea.

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### 4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

#### Unsuitable extinguishing media

Water - full jet.

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

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

### 5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Provide sufficient ventilation. Avoid dust formation. Do not inhale dust. Prevent contact with skin and eyes.

### 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. In the event of substantial pollution, contact respective authorities and wastewater treatment plants.

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

Place the product mechanically in an appropriate manner. Dispose of the collected material according to the instructions in the section 13. After removal of the product, wash the contaminated site with plenty of water.

### 6.4. Reference to other sections

See the Section 7, 8 and 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Prevent formation of dust in concentrations exceeding the occupational exposure limits. Do not inhale dust. Prevent contact with skin and eyes. Wash hands and exposed parts of the body thoroughly after handling. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

### 7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Keep container tightly closed.

### 7.3. Specific end use(s)

not available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Not specified.

#### DNEL

potassium carbonate			
Workers / consumers	Route of exposure	Value	Effect
Workers	Inhalation	10 mg/m <sup>3</sup> of air	Chronic effects local
Workers	Inhalation	10 mg/m <sup>3</sup> of air	Acute effects local

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### 8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

#### Eye/face protection

Protective goggles.

#### Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

#### Respiratory protection

Half-mask with anti-dust filter when the exposition limits of substances are exceeded or in the location with insufficient ventilation.

#### Thermal hazard

Not available.

#### Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	solid
Colour	white
Odour	without fragrance
Melting point/freezing point	891 °C
Boiling point or initial boiling point and boiling range	cannot be determined - decomposition occurs
Flammability	non-flammable
Lower and upper explosion limit	not applicable
Flash point	not applicable
Auto-ignition temperature	not applicable
Decomposition temperature	not determined
pH	11.6 (5% solution at 20 °C)
Kinematic viscosity	not applicable
Solubility in water	110.5g / 100g 20°C
Partition coefficient n-octanol/water (log value)	not applicable
Vapour pressure	not applicable
Density and/or relative density	
Density	2.428 g/cm <sup>3</sup> at 19 °C
Relative vapour density	not applicable
Particle characteristics	data not available
Form	solid: crystalline, powder

### 9.2. Other information

Oxidising properties It is not oxidising.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Hygroscopic substance. The substance is non-flammable.

### 10.2. Chemical stability

The product is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

React violently with acids to evolve CO<sub>2</sub> (foaming).

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### 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Heat. Humid air.

### 10.5. Incompatible materials

Strong acids. Aluminium. Copper. Brass.

### 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

No toxicological data is available for the substance.

#### Acute toxicity

Based on available data the classification criteria are not met.

potassium carbonate						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD <sub>50</sub>	OECD 401	>2000 mg/kg bw		Rat ( <i>Rattus norvegicus</i> )	F/M
Inhalation (dust/mist)	LC <sub>50</sub>		6 mg/l	4,5 hours	Rat	F/M
Dermal	LD <sub>50</sub>		>2000 mg/kg bw	24 hours	Rabbit	F/M

#### Skin corrosion/irritation

Causes skin irritation.

potassium carbonate				
Route of exposure	Result	Method	Exposure time	Species
Dermal	Moderate irritant	OECD 404	24 hours	Rabbit

#### Serious eye damage/irritation

Causes serious eye irritation.

potassium carbonate			
Route of exposure	Result	Exposure time	Species
Eye	Irritating	72 hours	Rabbit

#### Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

potassium carbonate				
Route of exposure	Result	Exposure time	Species	Sex
Skin	Not sensitizing	48 hours	Guinea-pig ( <i>Cavia aperea f. porcellus</i> )	

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### Germ cell mutagenicity

Based on available data the classification criteria are not met.

potassium carbonate					
Result	Method	Exposure time	Specific target organ	Species	Sex
Negative	OECD 471			Bacteria (Salmonella typhimurium)	

### Carcinogenicity

No data available for the substance. Based on available data the classification criteria are not met.

### Reproductive toxicity

Based on available data the classification criteria are not met.

potassium carbonate							
Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex
Maternal toxicity	NOEL	OECD 414	290 mg/kg bw/day	10 days (7 days/week)	No effect	Mouse	F

### Toxicity for specific target organ - single exposure

May cause respiratory irritation.

### Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

potassium carbonate								
Route of exposure	Parameter	Method	Value	Exposure time	Specific target organ	Result	Species	Sex
Inhalation (aerosols)	NOAEC	OECD 424	0.123 mg/l of air	21 days (7 days/week, 6 hour/day)	Nervous system	No effect	Rat (Rattus norvegicus)	F/M

### Repeated dose toxicity

potassium carbonate						
Route of exposure	Parameter	Result	Value	Exposure time	Species	Sex
Oral	NOAEL	No effect	2667-3331 mg/kg bw/day	30 months (7 days/week)	Rat (Rattus norvegicus)	F/M

### Aspiration hazard

No data available for the substance. Based on available data the classification criteria are not met.

## 11.2. Information on other hazards

The substance does not have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## SECTION 12: Ecological information

### 12.1. Toxicity

Based on available data the classification criteria are not met.

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### Acute toxicity

potassium carbonate						
Parameter	Method	Value	Exposure time	Species	Environment	Value determination
LC <sub>50</sub>	EPA OPP 72-1	68 mg/l	96 hours	Fish (Oncorhynchus mykiss)	Fresh water	Flow-through system
EC <sub>50</sub>	EPA OPP 72-2	430 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water	Static system

### 12.2. Persistence and degradability

No data available for the substance.

### 12.3. Bioaccumulative potential

No data available for the substance.

### 12.4. Mobility in soil

No data available for the substance.

### 12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

### 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms as it does not meet the criteria set out in section B of Regulation (EU) No 2017/2100.

### 12.7. Other adverse effects

Not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

#### Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

#### Waste type code

06 03 14 solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13

#### Packaging waste type code

06 03 00 wastes from the MFSU of salts and their solutions and metallic oxides

## SECTION 14: Transport information

### 14.1. UN number or ID number

not subject to transport regulations

### 14.2. UN proper shipping name

not relevant

### 14.3. Transport hazard class(es)

not relevant

### 14.4. Packing group

not relevant

### 14.5. Environmental hazards

not relevant

### 14.6. Special precautions for user

Reference in the Sections 4 to 8.

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### 14.7. Maritime transport in bulk according to IMO instruments

not relevant

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

### 15.2. Chemical safety assessment

Not available.

## SECTION 16: Other information

### A list of standard risk phrases used in the safety data sheet

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

### Guidelines for safe handling used in the safety data sheet

P261	Avoid breathing dust.
P264	Wash face, hands and exposed parts of the body thoroughly after handling.
P280	Wear protective gloves/eye protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362+P364	Take off contaminated clothing and wash it before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

### Other important information about human health protection

The user is responsible for adherence to all related health protection regulations.

### Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC <sub>50</sub>	Concentration of a substance when it is affected 50 % of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
Eye Irrit.	Eye irritation
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry

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LC <sub>50</sub>	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD <sub>50</sub>	Lethal dose of a substance in which it can be expected death of 50% of the population
log K <sub>ow</sub>	Octanol-water partition coefficient
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent, bioaccumulative and toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity - single exposure
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very persistent and very bioaccumulative

### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

### Recommended restrictions of use

not available

### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

### The changes (which information has been added, deleted or modified)

The version 1.3 replaces the SDS version from Monday, 4 September 2023. Changes were made in sections 1, 11 and 16.

### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.