

## Safety Data Sheet

### POTASSIUM CARBONATE

Safety Data Sheet dated 04/01/2024 version 01



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

### 1.1. Product identifier

Identification of the substance:

Trade name: POTASSIUM CARBONATE

Chemical name: POTASSIUM CARBONATE

CAS number: 584-08-7

EC number: 209-529-3

Registration Number 01-2119532646-36-0010

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

Recommended use: FOR INDUSTRIAL USE

FOOD ADDITIVE

ANTI-FREEZING AGENT

RAW MATERIAL FOR ANIMAL FEEDS

AGENTS OF pH REGULATORS

PHARMACEUTICAL PRODUCTS

FERTILIZER

FOR PROFESSIONAL USE

Uses advised against: N.A.

### 1.3. Details of the supplier of the safety data sheet

Company:

ALTAIR CHEMICAL S.r.l.

Via Moie Vecchie 13

56048 Saline di Volterra (PI)

Competent person responsible for the safety data sheet: sds@altairchemical.com

### 1.4. Emergency telephone number

ALTAIR CHEMICAL S.r.l. Phone n. +39-0588-9811

Malta: 112

## SECTION 2: Hazards identification



### 2.1. Classification of the substance or mixture

#### Regulation (EC) n. 1272/2008 (CLP)

Eye Irrit. 2 Causes serious eye irritation.

STOT SE 3 May cause respiratory irritation.

Skin Irrit. 2 Causes skin irritation.

Adverse physicochemical, human health and environmental effects:

No other hazards

### 2.2. Label elements

#### Regulation (EC) No 1272/2008 (CLP):

#### Pictograms and Signal Words



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.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/clothing and eye/face 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.

Special provisions according to Annex XVII of REACH and subsequent amendments:  
None.

### 2.3. Other hazards

This substance has no PBT, vPvB or endocrine disrupting properties

Other Hazards: No other hazards

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## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance Identifications:	POTASSIUM CARBONATE
CAS number:	584-08-7
EC number:	209-529-3
Registration Number	01-2119532646-36-0010

### 3.2. Mixtures

N.A.

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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.  
After contact with skin, wash immediately with soap and plenty of water.  
In case of persistent skin irritation consult a doctor.

In case of eyes contact:

Irrigate eyes with copious amounts of water for at least 10-15 min, holding eyelids apart to ensure thorough rinsing  
Protect uninjured eye.  
Ask for medical advice.  
If irritation, blurred vision or swelling occurs and persists, obtain medical advice from a specialist.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and hazard labelling.

In case of Inhalation:

In case of inhalation, consult a doctor immediately and show him packing or label.

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

Eye irritation

Skin Irritation

Erythema

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media:

Carbon dioxide (CO<sub>2</sub>).  
Water.

According to the materials involved in the fire.

Extinguishing media which must not be used for safety reasons:

None in particular.

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

Do not inhale explosion and combustion gases.

### 5.3. Advice for firefighters

Wear suitable protective clothing (helmet, protective clothings, goggles, fire resistant gloves, boots) and protect respiratory organs (self contained breathing apparatus).

Use suitable breathing apparatus .

Move undamaged containers from immediate hazard area if it can be done safely.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

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## SECTION 6: Accidental release measures

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

Provide adequate ventilation.  
Wear personal protection equipment.  
Wear breathing apparatus if exposed to vapours/dusts/aerosols.  
Use appropriate respiratory protection.  
See protective measures under point 7 and 8.

### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.  
If the product has escaped into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.

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

Collect free product with suitable mechanical means.  
Dispose of the collected material in accordance with the current regulations.  
Retain contaminated washing water and dispose it.

### 6.4. Reference to other sections

See also section 8 and 13

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid contact with skin and eyes  
Do not breathe dust. See, too, paragraph 8 below.  
Use localized ventilation system.  
Don't use empty container before they have been cleaned.  
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Advice on general occupational hygiene:

Contaminated clothing should be changed before entering eating areas.  
Do not eat or drink while working.  
See also section 8 for recommended protective equipment.

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

Keep away from food, drink and feed.  
Always keep in a well ventilated place.

Incompatible materials:

Keep away from acids.  
See subsection 10

Instructions as regards storage premises:

Cool and adequately ventilated.

Packaging materials:

Keep containers tightly closed and properly labelled.

### 7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Derived No Effect Level (DNEL) values

Worker Industry	Worker Professional	Consumer	Exposure Route	Exposure Frequency	Remark
10 mg/m <sup>3</sup>			Human Inhalation	Long Term, local effects	
10 mg/m <sup>3</sup>			Human Inhalation	Short Term, local effects	

### 8.2. Exposure controls

Individual protection measures:

Personal protective equipment selections vary based on potential exposure conditions and working conditions.

The final choice of protective equipment will depend upon a risk assessment.

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Please see both sections 5 and 6 for information about personal protective equipment to be worn in an emergency (e.g.: fire or unintentional release of the substance).

#### Eye protection:

Eye glasses with side protection.

Dust protection eye glasses.

#### Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

#### Protection for hands:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Glove suitability and breakthrough time will differ depending on the specific use conditions.

Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions.

Use protective gloves that provides comprehensive protection.

Wear suitable gloves tested to EN374.

Suitable material:

Butyl caoutchouc (butyl rubber).

PVC (polyvinyl chloride).

#### Respiratory protection:

Depending on the potential for exposure, select respiratory protective equipment suitable for the specific conditions of use and in compliance with current legislation.

Particle filter device (DIN EN 143).

#### Thermal Hazards:

N.A.

#### Environmental exposure controls:

Comply with the applicable environmental regulations limiting discharge to air, water and soil.

#### Hygienic and Technical measures

N.A.

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## SECTION 9: Physical and chemical properties

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

Physical State: Solid

Color: White

Odour: None

pH: 11 (1 g/L) - 11.6 (aqueous solution)

Kinematic viscosity: N.A.

Melting point / freezing point: 891°C

Initial boiling point and boiling range: N.A. ( It's technically not possible to determine the boiling point/range )

Flash point: N.A. ( Does not apply to inorganic products. )

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.

Vapour pressure: N.A. ( Study scientifically not necessary )

Relative density: 2.43 (19°C)

Solubility in water: 900-1105 g/L (20°C)

Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A. ( Does not apply to inorganic products. )

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Flammability: Non-flammable

Volatile Organic compounds - VOCs = N.A.

#### Particle characteristics:

Particle size: 0.1-1.5 mm ( Method of calculation of the diameter: volume-based )

### 9.2. Other information

Miscibility: N.A.

Conductivity: N.A.

Explosive properties: ( There are no chemical groups present in the molecule which are associated with these properties )

Oxidizing properties: ( There are no chemical groups present in the molecule which are associated with these properties )

Evaporation rate: N.A.

No other relevant information

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Exothermic reaction with acids; evolution of carbon dioxide.

Stable under normal conditions.

### 10.4. Conditions to avoid

Stable under normal conditions.

### 10.5. Incompatible materials

Keep away from copper, brass, light metals.

Acids

### 10.6. Hazardous decomposition products

Carbon Dioxide

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## SECTION 11: Toxicological information

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

#### Toxicological Information of the Substance

a) acute toxicity	Not classified Based on available data, the classification criteria are not met LD50 Oral Rat > 2000 mg/kg bw - OECD 401 LD50 Skin Rabbit > 2000 mg/kg bw LC50 Inhalation Rat = > 4.96 mg/l 4,5h (maximum concentration achieved)
b) skin corrosion/irritation	The product is classified: Skin Irrit. 2(H315) Skin Irritant Skin Positive
c) serious eye damage/irritation	The product is classified: Eye Irrit. 2(H319) Eye Irritant Positive
d) respiratory or skin sensitisation	Not classified Based on available data, the classification criteria are not met Skin Sensitization Guinea pig Negative
e) germ cell mutagenicity	Not classified Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified Based on available data, the classification criteria are not met
h) STOT-single exposure	The product is classified: STOT SE 3(H335) Respiratory Tract Irritant Positive
i) STOT-repeated exposure	Not classified Based on available data, the classification criteria are not met
j) aspiration hazard	Not classified Based on available data, the classification criteria are not met

### 11.2. Information on other hazards

#### Endocrine disrupting properties:

This substance has no endocrine disrupting properties

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## SECTION 12: Ecological information

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

#### List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

No data available for the product

### 12.2. Persistence and degradability

N.A.

### 12.3. Bioaccumulative potential

Bioaccumulation is not to be expected

#### **12.4. Mobility in soil**

N.A.

#### **12.5. Results of PBT and vPvB assessment**

This substance has no PBT, vPvB or endocrine disrupting properties

#### **12.6. Endocrine disrupting properties**

This substance has no endocrine disrupting properties

#### **12.7. Other adverse effects**

N.A.

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### **SECTION 13: Disposal considerations**

#### **13.1. Waste treatment methods**

Recover if possible. In so doing, comply with the local and national regulations currently in force.

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### **SECTION 14: Transport information**

Not classified as dangerous in the meaning of transport regulations.

#### **14.1. UN number or ID number**

N.A.

#### **14.2. UN proper shipping name**

N.A.

#### **14.3. Transport hazard class(es)**

N.A.

#### **14.4. Packing group**

N.A.

#### **14.5. Environmental hazards**

N.A.

#### **14.6. Special precautions for user**

N.A.

Road and Rail (ADR-RID):

N.A.

Air (IATA):

N.A.

Sea (IMDG):

N.A.

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

N.A.

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### **SECTION 15: Regulatory information**

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

Regulation (EU) n. 2020/878

Regulation (EC) n. 1907/2006 (REACH) and subsequent amendments

Regulation (EC) n. 1272/2008 (CLP) and subsequent amendments

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: None.

Restrictions related to the substances contained: None.

Provisions related to directive EU 2012/18 (Seveso III):

N.A.

Regulation (EU) No 649/2012 (PIC regulation)

No substances listed

Where applicable, refer to the following regulatory provisions :

German Water Hazard Class.

Class 1: slightly hazardous for water.

SVHC Substances:

No data available

## 15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for the substance.

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## SECTION 16: Other information

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

Code	Hazard class and hazard category	Description
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.



IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: KAFH

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low

N.A.: Not Applicable

N/D: Not defined/ Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration.

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

PSG: Passengers

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

**Paragraphs modified from the previous revision:**

- SECTION 2: Hazards identification
- SECTION 4: First aid measures
- SECTION 5: Firefighting measures
- SECTION 6: Accidental release measures
- SECTION 9: Physical and chemical properties
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 14: Transport information
- SECTION 15: Regulatory information