



# Material Safety Data Sheet

## Potassium Carbonate

Version: 2.0 EN  
Revision Date: 2024-12

### SECTION 1: IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

#### 1.1 Product identifiers

Product Name	Potassium Carbonate
CAS No	584-08-7
Synonyms	Carbonate of potash, Dipotassium carbonate, sub-carbonate of potash, Pearl ash, Potash Salt of tartar, Salt of wormwood

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

Recommended Use	Chemical intermediate, For research and industrial use only
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#### 1.3 Details of the supplier of the safety data sheet

Company	China lithium Products technology Company Limited 9 HG, No.99 LuJiang Road, Xiamen city, China
Telephone	+86 592 2687860
Email	info@lithium-chemical.com

#### 1.4 Emergency telephone number

Emergency phone #	+86 592 2687860
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### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Skin corrosion/irritation (Category 2), H315  
Serious eye damage/eye irritation (Category 2A), H319  
Specific target organ toxicity - single exposure (Category 3), respiratory tract irritation, H335

#### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word Warning

##### Hazard Statements

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

##### Precautionary Statements

##### Prevention

P261	Avoid breathing dust
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P264 Wash skin thoroughly after handling  
P271 Use only outdoors or in a well-ventilated area  
P280 Wear protective gloves/ eye protection/ face protection

**Response**

P302 + P352 IF ON SKIN: Wash with plenty of water  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention  
P337 + P313 If eye irritation persists: Get medical advice/ attention

**Storage**

P403 + P233 Store in a well-ventilated place  
P405 Keep container tightly closed. Store locked up

**Disposal**

P501 Dispose of contents/ container to an approved waste disposal plant

**Precautionary Statements**

None

**Supplemental Hazard Statements**

None

**2.3 Hazards not otherwise classified (HNOC) or not covered by GHS**

No data available

**2.4 Health hazards**

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

**2.5 Other hazards**

None

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Substances**

Substance name	Potassium Carbonate
Formula	$\text{CK}_2\text{O}_3$
CAS No	584-08-7
EC No	209-529-3

**Hazardous ingredients:** Potassium carbonate, Classification: Skin corrosion/irritation Category 2; Serious eye damage/eye irritation Category 2A; Specific target organ toxicity - single exposure Category 3; H315, H319, H335;  
Concentration:  $\leq 100\%$

**SECTION 4: FIRST AID MEASURES**



#### **4.1 Description of first aid measures**

##### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance

##### **If inhaled**

After inhalation: fresh air

##### **In case of skin contact**

Wash off with soap and plenty of water. Consult a physician

##### **In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

##### **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

### **SECTION 5: FIREFIGHTING MEASURES**

#### **5.1 Extinguishing media**

##### **Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

##### **Unsuitable extinguishing media**

For this substance/mixture no limitations of extinguishing agents are given

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

Carbon oxides

Potassium oxides

Not combustible.

Ambient fire may liberate hazardous vapours

#### **5.3 Advice for firefighters [www.lithium-chemical.com](http://www.lithium-chemical.com)**

Wear self-contained breathing apparatus for firefighting if necessary

#### **5.4 Further information**

None

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert

For personal protection see section 8

#### **6.2 Environmental precautions**



Prevent further spillage or leakage if it is safe to do so, Do not let the chemical enter drains, Discharge into the environment must be avoided

### **6.3 Methods and materials for containment and cleaning up**

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts

### **6.4 Reference to other sections**

For disposal see section 13

## **SECTION 7: HANDLING AND STORAGE**

### **7.1 Precautions for safe handling**

#### **Advice on safe handling**

For precautions see section 2.2

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

#### **Storage conditions**

Tightly closed. Dry

#### **Storage class**

Storage class (TRGS 510): 13: Non Combustible Solids

### **7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1 Control parameters**

Ingredients with workplace control parameters:	Contains no substances with occupational exposure limit values
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### **8.2 Exposure controls**

Appropriate engineering controls:	Change contaminated clothing. Wash hands after working with substance
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#### **Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

#### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands

#### **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

#### **Respiratory protection**

required when dusts are generated

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN



14387 and other accompanying standards relating to the used respiratory protection system

#### **Control of environmental exposure**

Do not let product enter drains

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

Appearance	Form: powder
	Colour: white
Odour	Odorless
Odour Threshold	No data available
pH	11.0 - 13 at 138 g/l at 25 °C
Melting point/freezing point	891 °C - lit
Initial boiling point and boiling range	(decomposition)
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	The product is not flammable
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Density	2.428 g/cm <sup>3</sup>
Water solubility	138 g/l at 20 °C - completely soluble
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

### **9.2 Other safety information**

No data available

## **SECTION 10: STABILITY AND REACTIVITY**

### **10.1 Reactivity**

No data available

### **10.2 Chemical stability**

Stable under recommended storage conditions

### **10.3 Possibility of hazardous reactions**

No data available



**10.4 Conditions to avoid**

Exposure to moisture

**10.5 Incompatible materials**

Acids, Strong oxidizing agents

**10.6 Hazardous decomposition products**

In the event of fire: see section 5

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

<b>Acute toxicity:</b>	LD50 Oral- Rat- 1.870 mg/kg Inhalation: Irritating to respiratory system
<b>Skin corrosion/irritation:</b>	No data available
<b>Serious eye damage/eye irritation:</b>	No data available
<b>Respiratory or skin sensitization:</b>	No data available
<b>Germ cell mutagenicity:</b>	Rat Unscheduled DNA synthesis
<b>Carcinogenicity</b>	
IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC
<b>Reproductive toxicity</b>	
No data available	
<b>Specific target organ toxicity - single exposure</b>	
Inhalation-	May cause respiratory irritation
<b>Specific target organ toxicity - repeated exposure</b>	
No data available	
<b>Aspiration hazard</b>	
No data available	

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1 Toxicity**

Toxicity to fish	Flow-through test LC50 - Oncorhynchus mykiss (rainbow trout) - 68 mg/l - 96 h Remarks: (ECHA)
Toxicity to daphnia and other aquatic invertebrates	Static test EC50 - Daphnia pulex (Water flea) - 200 mg/l - 48 h Remarks: (ECHA)

**12.2 Persistence and degradability**

The methods for determining the biological degradability are not applicable to inorganic substances

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**



No data available

#### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### 12.6 Other adverse effects

No data available

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

##### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber

##### Remarks

None

### SECTION 14: TRANSPORT INFORMATION

#### ADR/RID

UN number: No

Packing group: No

Labels: No

Proper shipping name: No

Transport hazard class(es): No

Packing instruction (cargo aircraft): No

#### IMDG

IMDG UN number: No

Packing group: No

Labels: No

Proper shipping name: No

Transport hazard class(es): No

EMS Code: No

#### IATA

UN number: No

Packing group: No

Labels: No

Proper shipping name: No

Transport hazard class(es): No

### SECTION 15: REGULATORY INFORMATION

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

##### National regulatory information

No data available

#### 15.2 Other regulations

Please pay attention on the waste treatment should also comply with local regulations requirement

### SECTION 16: OTHER INFORMATION

#### Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. China Lithium Product Technology Co., Ltd.( CLPC) and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.lithium-chemical.com](http://www.lithium-chemical.com) for



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