



632 Prostřední Bečva
756 56 Prostřední Bečva
Czech Republic
Phone +420 571 643 216
Contact person: Jiri Matusik
VAT CZ 26852357

MATERIAL SAFETY DATA SHEET

ACCORDING TO THE EU REGULATION No. 1907/2006 (REACH)

POTASSIUM CARBONATE

Date: 20.06.2009 Edition: 2 Replaces edition: 10.01.2002 Pages: 10

1. Identification of the product and the undertaking

1.1 Identification of the product: Potassium Carbonate

Chemical formula: K_2CO_3 or CK_2O_3

Chemical name: potassium hydroxide

EINECS No: 209-529-3

CAS No: 584-08-7

Synonyms: Potash, Dipotassium Salt of Carbonic Acid, Pearl Ash

Molecular weight: 138,21

1.2 Substance use:

Recommended uses are in the building, glass manufacturing, electro-vacuum, chemical and other industries.

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Warehouse: Hranická 773, 757 01, Valašské Meziříčí

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1.3 Identification of the undertaking:

Company responsible for the trading activities with the substance:

KLEMAT CZ Ltd.
632 Prostřední Bečva
756 56 Prostřední Bečva
Czech Republic
Phone +420 571 643 216
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1.4 Emergency phones:

For the country: Police 166

Fire brigade: 160

2. Chemical compounds

Chemical name of the substance	CAS No	Concentration	Risks
Potassium Carbonate	584-08-7	92.5 - 98.0 %	Average Xn R 20/21/22-25

E - explosive; F + highly flammable; T - toxic; T + - highly toxic; C - corrosive; Xi - irritant; Xn-harmful; N - dangerous for the environment; O - oxidizing

3. Hazards Identification

The substance is classified as dangerous according to Directives 67/548/EEC and 1999/45/EC and their amendments.

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The substance is not classified under Annex I of Directive 67/548/EEC as such, but can be included in the group entries.

Fire risk: incombustible substance

Under high temperatures the substance forms injurious dusts, gases and smoke.

Toxic risks: irritates the eyes, the respiratory tracts and the skin (R36/37/38)

Ecotoxic risks: Soluble in water. Can cause temporary adverse effects on the water.

Caution! Irritates the eyes, the respiratory tracts and the skin

Effects on the health:

Inhalation:

Can cause irritation of the respiratory tract

Ingestion:

Can cause serious irritation of the mouth and throat if ingested in big quantities

Skin contact:

Can cause irritation of a wet skin

Eye contact:

Can cause irritation

Systemic contact:

This contact does not appear as carcinogenic or mutagen. No effects on the reproduction system are found.

4. First Aid Measures

Attention: Immediately leave the contaminated area and breathe fresh air

If swallowed, do not induce vomiting. Provide medical care.

Inhalation: Immediately leave the contaminated area, provide with fresh air and take deep breaths

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Skin contact: Immediately wash with warm water and soap thoroughly. Consult with dermatologist.

Ingestion: Do not cause vomiting. Drink vegetable oil. Wash the stomach with NaCl, milk or lemon juice. Consult with a doctor.

Eye contact: Immediately open the eye widely and wash with water. From time to time raise the eyelids. On the eyelids you can use tetracycline paste.

5. Fire-fighting measures

Fire - Non-flammable; under high temperatures forms irritating dust, gas and smoke.

Explosion - Incombustible

Under high level heating it can dissolve and form carbon dioxide and potassium oxide.

Extinguishing measures: use measures for fire extinguishing such as water, foam, carbon dioxide, ABC powder etc.

Measures non appropriate for extinguishing: none

Protective clothing: Carry a separate respirator and a complete protective costume.

Substances, produced as a result of the heating: toxic gas and carbon dioxide, carbon oxide, sulfur dioxide, aluminum compounds

6. Accidental Release Measures

No special precautions required. Avoid contact with the skin, eyes and nose. Do not breathe the dust. Do not let the chemical enter the environment.

Personal protection: use proper personal protective clothing

Emergency actions: Mark out the contaminated area with signs and prevent access of unauthorized personnel.

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Methods of cleaning up: Collect without inducing dust. Wash with water.

Do not put the trash back for re-use in the original container. Do not throw into pipes. Place the product into a sealable container. Suitable labeled.

Disposal: disposal of any contaminated material must be in accordance with the mandatory regulations.

7. Handling and storage

Safe handling information:

Keep the packages well closed in a cool and dry place. Provide with appropriate ventilation on the workplace. Open the packages carefully.

Fire and explosion prevention:

No special requirements. Do not mix with alumina dusts, hydrosulfite and benzaldehyde.

Storage:

Store in a cool, dry, well ventilated area and far from dangerous compounds. Do not mix with alumina dusts, hydrosulfite and benzaldehyde, humidity and high temperatures. Avoid strong oxidizing agents. Store in a tightly closed container.

8. Exposure controls and personal protection

Components that need to be controlled on the workplace:

Potassium Carbonate

Sodium tripoly phosphate - dust and powder: Threshold limit value 10mg/m³

Engineering controls: Provide with good ventilation to maintain the hazardous ingredients below the recommended limits

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Common safety and hygiene measures: Follow the usual caution recommendations for chemicals handling.

Keep far from food and drinks. Immediately remove all contaminated clothing. Wash your hand before and after breaks and at the end of the working day. Keep the working clothes separately. Use an appropriate respirator when exposed to high concentrations of the material.

Personal protection measures

Protection of the hands: wear appropriate protective gloves to prevent skin exposure (natural rubber, butyl rubber, nitril rubber).

Eye protection: use glasses or face-shield if there is a risk of splashing

Body protection: wear appropriate clothing

Use only in a well-ventilated area.

9. Physical and chemical properties

Molecular weight: 138,21 g/mol

Shape: Cristal powder

Color: White

Odor: odorless

Melting point: 891C

Flash point: not defined

Dissolution point: not defined

Explosive properties: not dangerous explosive substance

Density: 2270 - 2430kg/m³ at 20 C

Density of thickness: 750 kg

Vapor density: heavier than water

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pH (50g/l H₂O/25C): 11,5 - 12,5

Solubility in water: soluble at 20C -147000 mg/l, at 100C - 1557g/l, at 25C- 200000 mg/l

10. Stability and reactivity

The substance is stable under normal conditions of handling and storage. Does not polymerize. Soluble in water. Soaks water from the environment. Reacts to acids and form hydrates.

Conditions to avoid: incompatible materials and dust. Decomposition at 880C on sodium pyrophosphate and sodium metaphosphate.

Materials to avoid: Oxidizing agents and acids, magnesium, silicone and chlorine trifluoride.

Hazardous reactions: Reacts with acids and oxidizing agents and forms carbon gas.

11. Toxicological information

Oral:

LD 50: 1870mg/kg (rat)

LD50 = 2570 mg/kg (mouse)

Irritates the eyes, the respiratory tract and the skin (R36/37/38)

Under high temperatures it dissolves and forms irritating dust, gas and smoke.

Primary effects from the dissolution

On the skin: irritates the skin and its membranes

On the eyes: Irritates

Carcinogenicity: No

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12. Ecological information

Causes adverse effects on the flora and fauna. Avoid release of the material into the environment, soil and water.

Toxic limit:

The product is soluble in water.

Fish: not available

Bacteria: not available

Daphnia magna: not available

Water hazard class: 1

Eco-toxicity: none

Aquatic toxicity: not available

13. Waste Disposal

The disposal should be conducted in accordance with the formal instruction in the country. The material cannot be re-used.

Disposal code under EC: 06 03 99 - Other mentioned waste material

Do not dispose of with the regularly industrial waste.

Contaminated packaging:

EC codes are

15 01 02 plastic packaging;

15 01 04 metallic packaging

14. Transport Information

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Not dangerous for transportation

Hazard class: none

Land transport ADR/RID (international)

ADR/RID class: none

Sea transport IMDG:

IMDG Class: none

Additional information:

Marine pollutant: none

15.Регулираща информация

The substance is classified as dangerous under Directive 67/548/EEC and 1999/45/EC.

The substance is related with the following information:

Hazard sign: Xi Irritator

R-phrases:

R20: Harmful by inhalation

R21: Harmful in contact with skin

R22: Harmful if swallowed

R52: Harmful to aquatic organisms

S-phrases:

S22: Do not breathe dust

S24: Avoid contact with skin

S25: Avoid contact with eyes

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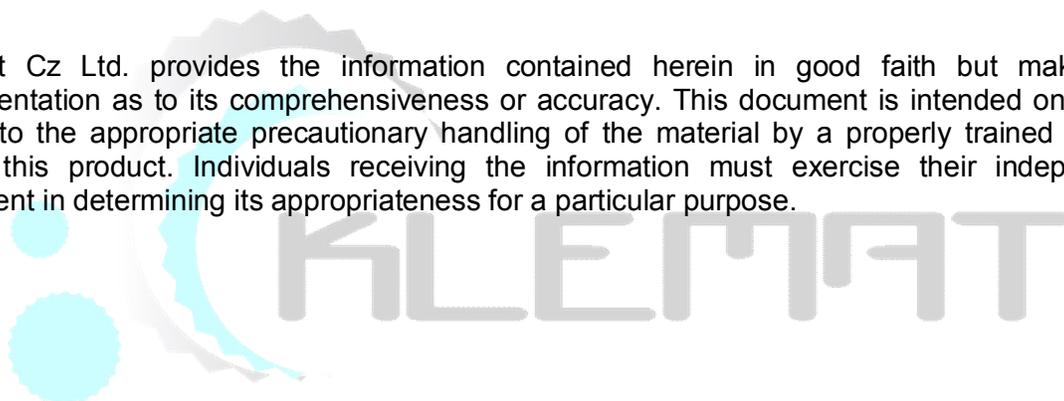
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16. Other information

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