

**Name of the substance or mixture: POTASSIUM CARBONATE, GRANULATED (K<sub>2</sub>CO<sub>3</sub>)**Date of last revision  
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**1. Identification**

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**Name of the substance or mixture (trade name):** POTASSIUM CARBONATE, GRANULATED (K<sub>2</sub>CO<sub>3</sub>)**Recommended main uses for the substance or mixture:** Manufacture of Special Glass; Manufacture of Potassium Silicate; Food industry.**Company Name:** Katrium Chemical Industries Ltd.**Address:** John Paul Road, 530 - Honorio Gurgel

CEP: 21512-002

Rio de Janeiro / RJ - Brazil

**Contact Phone:** 55 (21) 2472-9060**Emergency telephone number:** SUATRANS COTEC - 0800 707 7022 ou 0800 17 2020**Internet:** www.katrium.com.br

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**2. Hazards identification**

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**Classification of the substance or mixture:**

Skin corrosion / irritation: Category 2

Serious eye damage / eye irritation: Category 2A

Specific target organ toxicity - single exposure: Category 3

**GHS labeling elements****Warning words:** Attention**Hazard phrase (s):** H315 - Causes skin irritation. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation.**Precautionary Phrase (s):**

- **General:** Not appropriate
- **Prevention:** P264 - Wash thoroughly after handling. P280 - Wear protective gloves / protective clothing / eye protection / face protection.
- **Emergency response:** P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. In case of contact lenses, remove them if it is easy. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice / attention. P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- **Storage:** P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

**Other hazards which do not result in classification:** There is a danger of intoxication.**Other information:** Not available.

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### 3. Composition and information on ingredients

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Product Type: Substance

Ingredients or impurities contributing to the hazard:

Common chemical or technical name	CAS	Concentration or concentration range (%)
POTASSIUM CARBONATE	584-08-7	99

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### 4. First aid Measures

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First aid actions

- **Inhalation:** Remove person from contaminated area. Look for a ventilated place. If not breathing, reenergize and administer oxygen. Seek medical attention immediately.
- **Skin contact:** Wash affected area immediately with plenty of water for at least 20 minutes. Consult a physician for treatment.
- **Eye contact:** With open eye, rinse immediately with plenty of water for at least 20 minutes. Seek medical advice immediately if symptoms persist. When dealing with caustic substances, notify the emergency physician immediately (keywords: eye burns).
- **Ingestion:** Dilute chemical immediately by drinking large amounts of water or milk. Vomiting may occur spontaneously, but do not provoke. Seek medical attention immediately.

**Most important symptoms and effects, both acute and delayed:** Causes skin irritation. Causes serious eye irritation.  
May cause respiratory irritation

**Notes to Physician:** Provide eye and skin wash facilities near work area.

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### 5. Fire-fighting measures

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**Suitable extinguishing media:** Water spray, foam, CO<sub>2</sub>, dry chemical.

**Unsuitable extinguishing media:** Water spray.

**Specific hazards of the substance or mixture:** Product does not burn.

**Protective measures for fire-fighters:** In case of insufficient ventilation, wear suitable respiratory equipment.

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### 6. Accidental release measures

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

- **For non-emergency personnel:** Do not allow product to come into contact with skin, eyes and mucous membranes. Do not handle broken packages. Do not touch spilled product.
- **For emergency responders:** Use personal protective equipment as described in section 8.

**Environmental precautions:** Avoid environmental contamination. Do not allow to enter drains or watercourses. Do not empty into soil.

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**Methods and materials for stagnation and containment:** Use PPE. Collect contaminated material in resistant containers. Dispose contaminated material and its container as hazardous waste in accordance with local regulations.

**Isolation of area:** Keep unauthorized persons away.

Methods and materials for cleaning up: Isolate the area and collect the product. Remove the product with appropriate utensils. Condition the waste in a suitable container for disposal.

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## 7. Handling and storage

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### Precautions for safe handling

- **Prevention of worker exposure:** Wear personal protective equipment. Avoid dust formation.
- **Fire and explosion prevention:** The substance is not flammable.
- **Precautions and guidelines for safe handling:** The usual precautions for handling chemicals should be observed. Avoid direct contact with the material.
- **Hygiene measures**
  - **Appropriate:** Wash hands before breaks and at the end of the work period. Do not eat or smoke while working. Remove contaminated clothing immediately.
  - **Inappropriate:** Do not eat, drink or smoke while handling the product.

### Safe storage conditions

- **Suitable conditions:** Conditions for safe storage, including any incompatibilities. Keep container tightly closed in a dry and well-ventilated place.
- **Conditions to be avoided, including any incompatibility:**
- **Packaging materials**
  - **Recommended:** Plastic.
  - **Inadequate:** Copper, brass, light metals.

**Further information:** Keep container tightly closed. Use dikes or natural barriers to contain the product leakage. Absorb in dry state. If leakage is possible, use bungs, sealing tape or by inverting the bore / tear / kneading upwards. Collect all material in suitable containers and properly labeled for further treatment and disposal. Waste should be disposed of in accordance with local, state, or federal environmental legislation. For overflow check an appropriate location and perform the safety procedures described above.

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## 8. Exposure controls / personal protection

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### Control Parameters

- **Occupational exposure limits:** (NR 15) - no established occupational exposure limit, unclassified.
- **Biological indicators:** There are no biological exposure indicators established by Brazilian legislation - NR 07.

**Engineering Control Measures:** No engineering measures are required. Proper ventilation and device existence are recommended as emergency showers and eyewash.

### Personal protection measures

- **Eye / face protection:** Safety glasses.
- **Skin protection:** PVC boots.

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• **Respiratory protection:** Respirator with chemical filter (case of brief exposure). In case of increased exposure, wear self-contained breathing apparatus.

• **Hand protection:** Rubber gloves (PVC)

• **Thermal hazards:** Not available.

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## 9. Physical and chemical properties

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**Physical State:** Solid; **Form:** Granulate; **Color:** Colorless

• **Odor:** Odorless

• **Odor threshold:** Not available.

• **pH:** ~ 11.5-12.5

• **Melting point / freezing point:** 891 ° C / Not available.

• **Initial boiling point:** Not available.

• **Boiling temperature range:** Not available.

• **Flash point:** Non-flammable

• **Evaporation rate:** Not available.

• **Flammability (solid, gas):** Non-flammable

• **Lower flammability or explosive limits:** Not available.

• **Upper Flammable / Explosive Limit:** Not available.

• **Vapor pressure:** Not available.

• **Vapor Density:** Not available.

• **Relative density:** 1.35 g / cm<sup>3</sup>

• **Solubility (s):** at 0 ° C - 105.5g / 100g H<sub>2</sub>O at 100 ° C - 156g / 100g H<sub>2</sub>O

• **Partition coefficient: n-octanol / water:** Not available.

• **Auto-ignition temperature:** Not available

• **Decomposition temperature:** Not available.

• **Viscosity:** Not available.

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## 10. Stability and reactivity

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**Chemical Stability:** Stable under recommended storage and handling conditions See Handling and Storage.

**Reactivity:** Exothermic reaction with acids. Evolution of carbon dioxide.

**Possibility of hazardous reactions:** Reaction with acidic substances (bases).

**Conditions to Avoid:** None known.

**Incompatible materials:** Strong acids and oxidizing agents.

**Hazardous Decomposition Products:** Carbon Dioxide.

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## 11. Toxicological information

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**Acute toxicity:** In contact with skin and / or eyes, causes irritation.

**Skin corrosion / irritation:** Causes skin irritation.

**Serious eye damage / eye irritation:** Causes severe eye irritation

**Respiratory or skin sensitization:** May cause respiratory irritation

**Germ cell mutagenicity:** Conclusion: not sufficient for classification

**Carcinogenicity:** Conclusion: not sufficient for classification

**Reproductive toxicity:** Conclusion: not sufficient for classification

**Specific target organ toxicity - single exposure:** Conclusion: not sufficient for classification

**Specific target organ toxicity - repeated exposure:** Conclusion: not sufficient for classification

**Aspiration hazard:** May cause respiratory irritation

**Other information:** Not available.

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## 12. Ecological information

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**Ecotoxicity:** Not classified as toxic. Large spills can cause damage to aquatic life and water quality

**Persistence and degradability:** Not available.

**Bioaccumulative potential:** Not bioaccumulative

**Mobility in soil:** Soluble in water - Final destination of the product: Water.

**Other adverse effects:** Do not allow to enter drains, rivers and storm water.

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## 13. Final Destination Considerations

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### Recommended methods for final destination

- **Product:** Keep any leftovers from the product in its original containers properly closed. Do not dispose of in sewage systems, water courses and sewage treatment plants.
- **Used packaging: Do not reuse empty containers.** Packaging must be washed and neutralized. Inappropriate disposal of empty containers and product residues in the environment causes contamination of soil, water and air, damaging the fauna, flora and health of people.

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## 14. Transport information

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### National and international regulations:

This product is not classified as dangerous by Resolution No. 5232 of 12/14/2016 of the Ministry of Transport.

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## 15. Informações sobre regulamentações Regulatory information

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**Specific safety, health and environmental regulations for the chemical:**

BRAZIL - MINISTRY OF LABOR AND EMPLOYMENT - NR 26 - Decree 229.

BRAZIL - MINISTRY OF TRANSPORT - ANTT - Resolution 5232 of December 14, 2016.

BRAZIL - ABNT NBR 14725 - Parts 1, 2, 3 and 4.

BRAZIL - MINISTRY OF LABOR AND EMPLOYMENT - Decree 2657.

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## 16. Outras informações Other information

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**Important information, but not specifically described to the previous sections:**

This MSDS has been developed based on the current knowledge of the chemical and provides information on protection, safety, health and the environment.

It is advised that the handling of any chemical substance requires prior knowledge of its hazards by the user. It is up to the user company to promote the training of its employees and contractors regarding the possible risks arising from the product.

**References:** [ABNT] ASSOCIAÇÃO BRASILEIRA DE NORMAS TÉCNICAS NBR 14725.

BRAZIL. Ministry of Transport. National Land Transportation Agency.

[ECHA] European Union. ECHA European Chemical Agency

**Subtitles and abbreviations:** CAS - Chemical Abstracts Service