



MATERIAL SAFETY DATA SHEET

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POTASSIUM CARBONATE

SECTION I: IDENTIFICATION OF PRODUCT

Product Name: POTASSIUM CARBONATE
Chemical Family: Inorganic potassium salt
WHMIS Classification: D2B
Workplace Hazard: Skin and eye Irritant

Product Use: Weighting Agent
TDG Classification: Not regulated
Packaging Group: Not applicable
PIN: Not applicable

SECTION II: HAZARDOUS INGREDIENTS

Ingredients	Percent	CAS Number	LD ₅₀ (Rat/Oral)	LC ₅₀ (Rat/Inhalation)
Potassium Carbonate	98.5-100	584-08-7	1870 mg/kg	>4.96 mg/L

SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry: Skin Eye Contact Inhalation Ingestion

Effects of acute exposure:

- **Inhalation:** Excessive levels of airborne dust may irritate the mucous membranes and upper respiratory tract.
- **Skin Contact:** Causes irritation. Initial contact may result in itching with increasing irritation if not removed.
- **Eye Contact:** Dust and concentrated solutions may cause moderate to severe eye irritation with tearing, redness, or a stinging or burning feeling. Effects may become more serious with prolonged contact.
- **Ingestion:** Will cause severe burning and pain in lips, mouth, tongue, throat and stomach. Severe scarring of the throat and esophagus may occur after swallowing. Massive overexposure may cause ulcerations, vomiting and death from shock.

Effects of chronic exposure: Frequent or prolonged contact may cause dermatitis. Solutions are more irritating and may cause burns if not removed promptly. Dermal LD50 (skin – rabbit) >2000 mg/kg.

Exposure limits: Not established

Irritancy of product: Skin and eye irritant.

Sensitization to product: Not known

Carcinogenicity: Not listed by NTP, IARC, OSHA or ACGIH.

Reproductive toxicity: No information available

Teratogenicity: No information available

Mutagenicity: No information available

Name of toxicological synergistic products: No information available



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SECTION IV: FIRST AID MEASURES

Skin contact: Immediately, flush contaminated area with water for at least 5 minutes or until the chemical is removed. Under running water, remove contaminated clothing, shoes, and leather goods (e.g. watchbands, belts). Obtain immediate medical attention.

Eye contact: Immediately flush eyes with gently flowing warm water for 15 minutes or until irritation ceases, lifting the upper and lower eyelids occasionally. When flushing period is complete, obtain medical attention.

Inhalation: Move to fresh air. Apply oxygen or artificial respiration if required. Obtain immediate medical attention.

Ingestion: Do not induce vomiting. Give large amount of water if patient is fully conscious. If spontaneous vomiting occurs, give more water. Obtain medical attention immediately. Never give anything by mouth to an unconscious or convulsing victim.

SECTION V: PHYSICAL DATA

Physical state: Solid

Appearance and odour: White granular solid; odourless

Odour threshold: Not applicable

Specific gravity: 2.428 @ 19°C

Vapor pressure (mmHG): Not applicable

Vapor density (Air=1): Not applicable

Evaporation rate: Not applicable

Boiling point (°C): Not available

Freeze/Melting point (°C): 891

pH: Not available

Co-efficient of water/oil distribution: Soluble



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SECTION VI: FIRE AND EXPLOSION DATA

Conditions of flammability: Not Combustible

Means of extinguishing: Use extinguishing media appropriate for surrounding fire.

Flash point: Non-combustible (doesn't burn)

Upper flammable limit: Not applicable

Lower flammable limit: Not applicable

Auto-ignition temperature: Not available

Hazardous combustion products: Not applicable

Explosion data-sensitivity to mechanical impact: None known

Explosion data-sensitivity to static discharge: None known

Unusual Fire or Explosion Hazards: None known.

SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): Stable under normal conditions.

Product incompatible with: Contact with acids will release carbon dioxide gas. Can react violently with red, hot aluminum metal; fluorine gas; lithium; and 2,4,6-trinitrotoluene. Avoid contact with lime to prevent formation of potassium hydroxide..

Conditions of reactivity: Not applicable..

Hazardous decomposition or combustion products: Oxides of carbon and oxides of potassium upon thermal decomposition.



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SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment:

- **Eye protection:** Safety glasses or goggles. Do not wear contact lenses when handling this material.
- **Skin protection:** Suggest plastic or rubber gloves.
- **Respiratory protection:** NIOSH/MESA approved dust mask recommended for low levels of dust. Use approved respirator with dust cartridges if dust concentration in air exceeds TLV. TWA (8 hr) for similar material is 1 mg/m³.
- **Other personal protective equipment:** Protective clothing as required to prevent contact. Ensure eye wash station and emergency shower are available.

Specific engineering controls: Local exhaust recommended if concentration of dust exceeds TLV.

Procedures for leak/spills: Wear appropriate safety gear including eye and respiratory protection. Clean spill by sweeping up and shoveling into containers. Collect uncontaminated material for repackaging. Collect contaminated material in an approved container for disposal. Cautiously spray residue with plenty of water. Collect wash water in an approved container for disposal. Releases should be reported to appropriate agencies.

Waste disposal: Dispose in accordance with federal, provincial and local regulations. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal. Empty packages contain residual hazardous material and must be disposed of, or recycled, in accordance with local regulations.

Handling procedures and equipment: Avoid contact with eyes or skin. Avoid breathing dust. Use good personal hygiene and housekeeping. Thoroughly clean, or discard, contaminated clothing and footwear before reuse.

Storage requirements: Store in a cool, dry, well-ventilated place away from acids. Product is hygroscopic. Obey hazard warnings and handle empty containers as if they were full.

Special shipping information: Not available.

SECTION IX: PREPARATION

Date updated: May 24, 2007

Prepared by: Product Safety Committee

All the recommendations and suggestions herein concerning this product are based upon tests and data believed to be reliable, however it is the user's responsibility to determine the safety, toxicity and sustainability for their own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Q'Max Solutions Inc. as to the effects of such use, the results to be obtained, or the safety and toxicity of the product nor does Q'Max Solutions Inc. assume any liability arising out of use by others. Nor is the information herein to be considered as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.