



POTASSIUM CARBONATE

PRODUCT INFORMATION

CHEMICAL NAME: Potassium carbonate.

SYNONYMS: Potassium carbonate.

CHEMICAL FAMILY: Metal carbonate.

MOLECULAR FORMULA: K_2CO_3

SHIPPING NAME: Potassium Carbonate

PIN - (UN/NA): Not applicable. WHMIS: D.2B

PRODUCT USE:

Special glasses(optical and color TV tubes), potassium silicate, dehydrating agent, pigments, printing inks, laboratory reagent, soft soaps, raw wool washing, general purpose food additive.

MANUFACTURER: Rot Quimica, S.A. DE C.V.
Bruselas 805, Col. Mirador
Monterrey, N.L., Mexico Zip 64070

SUPPLIER: Panther Industries Inc.
Box 628
Davidson, SK SOG 1A0

EMERGENCY TELEPHONE NUMBER: (306) 567-2814

HAZARDOUS INGREDIENTS

INGREDIENTS:	WEIGHT %	C.A.S. REGISTRY NUMBER:
Potassium Carbonate	100	584-08-7

PHYSICAL DATA

PHYSICAL STATE: Powder.

ODOUR AND APPEARANCE: White, free-flowing, no odour.

ODOUR THRESHOLD: Not available.

VAPOUR PRESSURE: Not available. VAPOUR DENSITY: Not available.

EVAPORATION RATE: Not available. pH: 0.2 moles/litre has pH 11.0

BOILING POINT: Not available. MELTING POINT: 891oC.

SOLUBILITY IN WATER % BY WEIGHT: Completely soluble.

SPECIFIC GRAVITY: 2.428 at 19oC. MOLECULAR WEIGHT: 138.2

% VOLATILE BY VOLUME: Not volatile.

BULK DENSITY: Not available.

COEFFICIENT OF WATER/OIL DISTRIBUTION: Not available.

FIRE AND EXPLOSION DATA

CONDITIONS OF FLAMMABILITY: Highly flammable in presence of oxidizing materials

MEANS OF EXTINGUISHING:

This product is combustible. Water spray, dry chemical, or carbon dioxide may be used in areas where this product is stored.

FLASH POINT: Not applicable.

AUTO IGNITION TEMPERATURE: Not applicable.

UPPER FLAMMABLE LIMIT: Not available.

LOWER FLAMMABLE LIMIT: Not available.

HAZARDOUS COMBUSTION PRODUCTS: Not available.



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SPECIAL FIRE FIGHTING PROCEDURES:

Avoid inhalation, skin, eye contact with irritating dusts through use of appropriate full cover clothing and air purifying respirator. Use a pressure demand, self contained breathing apparatus if large concentrations are present in the atmosphere or if potassium carbonate is exposed to temperatures above 900oC. causing release of significant levels of CO₂ (asphyxiant).

EXPLOSION HAZARDS: Not available.

REACTIVITY DATA

STABILITY: Stable. HAZARDOUS POLYMERIZATION: Will no occur.

INCOMPATIBILITY:

Avoid simultaneous presence of this product and Lime dust (CaO). The combination of these chemicals in presence of water or perspiration can cause the formation of caustic potash (KOH).

HAZARDOUS REACTIONS/DECOMPOSITIONS: Not available.

CONDITIONS TO AVOID: Avoid inhalation and skin or eye contact with dust.

HEALTH HAZARD DATA

INHALATION:

Airborne concentration of dust mist or spray may cause damage to the lung tissue which could produce chemical pneumonia.

SKIN CONTACT:

May cause 1st, 2nd or 3rd degree chemical burns depending on concentration and duration of contact.

EYE CONTACT: Conjunctivitis corneal destruction.

INGESTION:

Ingestion may cause burning pain from mouth to stomach. Swallowing may become difficult or impossible. Mucous membranes will appear soapy and white and later become brown in colour. They can also become edematous and ulcerated.

Vomit may appear bloody. Pulse may become rapid and feeble.

CHRONIC EXPOSURE EFFECTS: Not available.

EXPOSURE LIMITS: Not available IRRITANCY: Not available.

MUTAGENICITY: Not available. CARCINOGENICITY: Not available.

SENSITIZATION TO PRODUCT: Not available.

REPRODUCTIVE TOXICITY: Not available.

TERATOGENICITY DATA: Not available.

TOXICOLOGICALLY SYNERGISTIC MATERIALS: Not available.

ANIMAL TOXICITY DATA: Acute oral toxicity (LD50): 1870 mg/kg [Rat].

OTHER HEALTH EFFECTS: Not available.

FIRST AID MEASURES

INHALATION:

Remove to fresh air. Resuscitate if breathing stops. Seek medical attention.

SKIN CONTACT:

Wash contaminated area with copious amounts of water for at least 15 minutes.

EYE CONTACT:

Immediately flush eyes with large amount of water for at least 15 min.



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holding the lids apart to insure flushing of entire surface.

INGESTION:

Do not induce vomiting.

PREVENTATIVE MEASURES

RESPIRATORY PROTECTION: Use a NIOSH/MSHA approved respirator.

SKIN PROTECTION:

Gloves should be worn. Standard work clothing. Wash contaminated clothing with soap and water, dry before reuse. Shower and eye-wash facilities should be provided in all areas in which this product is handled.

EYE/FACE PROTECTION:

Face shield and goggles or chemical goggles should be worn.

SPECIAL HANDLING PROCEDURES: Not available.

STORAGE REQUIREMENTS:

Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

ENGINEERING CONTROLS:

Use local exhaust in areas where dust may be a problem.

ENVIRONMENTAL PROTECTION DATA

STEPS IN THE EVENT OF A LEAK OR SPILL:

If air born particles exist wear protective clothing to minimize contact and wear an approved respiratory mask if necessary. Sweep and shovel up spilled material and dispose of in DOT approved waste containers. Keep out of sewers, storm drains, surface waters and soil.

DEACTIVATING CHEMICALS: Acids, preferably HCl.

WASTE DISPOSAL METHODS:

If permitted by applicable disposal regulations, bury in a solid waste landfill or dissolve and neutralize. Consult federal, provincial and local regulations on chemical waste disposal.

PREPARATION INFORMATION

MSDS PREPARED BY: TECHNICAL DEPARTMENT

Panther Industries Inc.

TELEPHONE NUMBER: (306) 567-2814

DATE PREPARED/REVISED: March 24, 2007

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REFERENCES:

1. Manufacturers MSDS.