



Material Safety Data Sheet

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Infosafe No. AE1A2 Issue Date : September 2007 ISSUED by AMTRADE

Product Name : **POTASSIUM CARBONATE, ANHYDROUS**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name POTASSIUM CARBONATE, ANHYDROUS
Company Name Amtrade International Pty Ltd (ABN 49 006 409 936)
Address Level 6, 574 St Kilda Road
Melbourne
VIC. 3004 Australia
Emergency Tel. 1800 033 111 Aust
Telephone/Fax Number Tel: 61 3 9229 9229
Fax: 61 3 9229 9290
Email library@amtrade.com.au
Recommended Use Glass Manufacture; industrial cleaners; dehydrating agent; pigments; printing inks; lab reagent; soft soaps; raw wool washing; food additive.

| Other Names | <u>Name</u> | <u>Product Code</u> |
|--------------------|------------------------------------|----------------------------|
| | Potassium Carbonate Anhydrous 25kg | 355232 |
| | Potassium Carbonate Anhydrous 25kg | 379131 |
| | o | |
| | Carbonic Acid, Dipotassium Salt; | |
| | o | |
| | Carbonate, Potassium; | |
| | Pearl Ash; Potash. | |

2. HAZARDS IDENTIFICATION

Hazard Classification Workplace Hazardous Substance.
HAZARD CATEGORY: HARMFUL, IRRITANT
Harmful if swallowed. Irritating to eyes, respiratory system and skin.
o
Scheduled Poison S5 - Alkaline Salts.
Not a Dangerous Good.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization Solid

| Ingredients | <u>Name</u> | <u>CAS</u> | <u>Proportion</u> |
|--------------------|---------------------|-------------------|--------------------------|
| | Potassium Carbonate | 584-08-7 | >98.5% |
| | Potassium Hydroxide | 1310-58-3 | <0.2% |
| | Moisture | 7732-18-5 | <0.5% |
| | o | | o |

4. FIRST AID MEASURES

Inhalation Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Ingestion Immediately rinse mouth with water. Give water to drink. Do NOT induce vomiting. Seek immediate medical assistance.

Skin Wash contaminated skin with plenty of water. Remove contaminated clothing and wash before re-use. If swelling, redness, blistering, or irritation occurs seek medical advice.

Eye Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. Remove clothing if contaminated and wash skin. Seek immediate medical assistance.

First Aid Facilities Eye wash and safety shower, plus normal washroom facilities nearby.

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Treat symptomatically and as for exposure to Alkaline salts.

5. FIRE FIGHTING MEASURES

Fire Fighting Measures Not combustible. If involved in a fire, it may decompose to form Carbon Dioxide and Potassium Oxide which dissolves in water to form caustic, corrosive Potassium Hydroxide.

EXTINGUISHING MEDIA: For the surrounding area.

Prevent fire-fighting run-off from entering water courses or sewers.

PROTECTIVE CLOTHING: Wear self contained breathing apparatus and suitable protective clothing.

Decomposition Temp. 891°C

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures SPILLAGE: Wear protective equipment to prevent skin and eye contamination and inhalation of dust. Contain - prevent contamination of drains and waterways. Sweep up, but avoid generating dust. Collect and seal in properly labelled containers for disposal. Wash area down with excess water to sewer.

7. HANDLING AND STORAGE

Handling and Storage HANDLING: Avoid skin and eye contact and inhalation of dusts. Wear protective clothing. Avoid dust formation. Keep containers sealed when not in use.

STORAGE: Store away from acids. Keep containers closed at all times - check regularly for spills. Do not use containers made from non-ferrous metals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards No exposure standard has been established by the Australian Safety & Compensation Council (formerly NOHSC).

All atmospheric contamination should be kept to as low a level as is practically possible.

Nuisance Dusts 10 mg/m³ TWA (inspirable dust)

Engineering Controls Avoid generating and inhaling dusts. Keep containers closed when not in use. Ensure fittings are corrosion resistant.

Personal Protective Equipment Avoid skin and eye contact and inhalation of dusts.

Wear chemical goggles, faceshield or safety glasses with side shields.

Wear impervious gloves (plastic or rubber).

Avoid generating and inhaling dusts. If dust exists, wear dust mask meeting the requirements of AS 1715 and AS 1716.

Wear overalls and long sleeves to avoid skin contact.

Wear rubber boots and rubber or plastic aprons.

Always wash hands before smoking, eating, drinking or using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form Solid

Appearance Dense Regular Anhydrous Grade: White, odourless, mildly hygroscopic powder.

Decomposition Temperature 891°C

Melting Point 891°C (Decomposes)

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| Specific Gravity | Not applicable |
| pH Value | 2.43 at 20°C |
| Vapour Pressure | 11.3-12.5 (1-5% sol'n, 20°C); 12.6 (47% sol'n) |
| Vapour Density (Air=1) | Not applicable |
| Volatile Component | Not applicable |
| Flash Point | <0.5% (moisture) |
| Flammability | None |
| Auto-Ignition Temperature | Non combustibile material. May actually decompose and release Carbon Dioxide under fire conditions (an extinguishing gas). |
| Flammable Limits - Lower | Not applicable |
| Molecular Weight | 138.21 Formula: K ₂ CO ₃ |
| Other Information | SOLUBILITY: Soluble in water (1120 g/l at 20°C). Insoluble in alcohol and acetone. BULK DENSITY: 1200-1400 kg/m ³ (granular); 550-750 kg/m ³ (powder) |

10. STABILITY AND REACTIVITY

| | |
|---------------------------------|---|
| Stability and Reactivity | <p>Reacts with acids liberating asphyxiating Carbon Dioxide gas.</p> <p>CONDITIONS TO AVOID: Dust formation.</p> <p>INCOMPATIBLE MATERIALS: Non ferrous metals; Acids.</p> <p>HAZARDOUS DECOMPOSITION PRODUCTS: Large volumes of Carbon Dioxide released if heated to decomposition or if acidified.</p> <p>HAZARDOUS POLYMERISATION: Will not occur.</p> |
|---------------------------------|---|

11. TOXICOLOGICAL INFORMATION

| | |
|-------------------------------|--|
| Toxicology Information | <p>Acute Oral Toxicity LD50 (rat): 1870 mg/kg [IUCLID, 1988]</p> <p>Acute Oral Toxicity LD50 (rat): >2000 mg/kg [IUCLID, no date]</p> <p>SKIN IRRITATION (rabbit): Irritation [IUCLID]</p> <p>EYE IRRITATION (rabbit): Irritation [IUCLID]</p> <p>BACTERIAL MUTAGENICITY (Ames Test): Negative [IUCLID]</p> |
| Inhalation | Inhalation of dust causes respiratory irritation. Symptoms may include coughing, sneezing and breathing difficulties. |
| Ingestion | Harmful if swallowed. Large amounts are severely irritating and may be corrosive, resulting in mouth, throat and gastrointestinal severe irritation or burns, stomach cramps, vomiting, diarrhoea, and possibly circulatory collapse and death. |
| Skin | Contact with skin can result moderate to severe irritation, particularly if skin is moist. |
| Eye | Moderate to severe eye irritation. It may cause corneal injury, burns and loss of vision. The amount of damage depends on the length of eye contact. |
| Chronic Effects | Repeated or prolonged skin contact may lead to irritant contact dermatitis. Repeated eye contact may cause conjunctivitis. |

12. ECOLOGICAL INFORMATION



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Product Name : **POTASSIUM CARBONATE, ANHYDROUS**

Ecological Information This substance may be hazardous to the environment as it is alkaline and will alter the pH if large quantities are released.

Acute Fish Aquatic Toxicity LC50 (Rainbow Trout, 96 hrs) : 68 mg/L
Acute Fish Aquatic Toxicity LC50 (Bluegill Sunfish, 96hr) : 230 mg/L
Acute Daphnia Aquatic Toxicity EC50 (Daphnia Magna, 48hrs) : 200-430 mg/L

PERSISTENCE: Not expected to persist in the environment.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations DISPOSAL: In accordance with Local, State & Federal EPA waste regulations. Advise its harmful, irritant and alkaline nature. May be used to neutralise acid waste. React in an approved facility.

14. TRANSPORT INFORMATION

Transport Information NOT defined as a Dangerous Good: by the Australian Code for the Transport of Dangerous Goods by Road & Rail; by the IATA Air Transport Dangerous Goods Regulations; or by the IMDG (International Maritime Dangerous Goods) Code.

Storage and Transport Not classified as dangerous.

15. REGULATORY INFORMATION

Poisons Schedule S5

Packaging & Labelling Workplace Hazardous Substance.
HAZARD CATEGORY: HARMFUL, IRRITANT
R22 - Harmful if swallowed.
R36/37/38 - Irritating to eyes, respiratory system and skin.

S22/24/25 Do not breathe dust. Avoid contact with skin and eyes.
S37/39 Wear suitable gloves and eye/face protection.
S26 In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre.
S28 After contact with skin, wash immediately with plenty of water.

Scheduled Poison S5 - Alkaline Salts.

Not a Dangerous Good.

AICS (Australia) All ingredients are on the Australian Inventory of Chemical Substances.

16. OTHER INFORMATION



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Product Name : **POTASSIUM CARBONATE, ANHYDROUS**

Contact Person/Point For EMERGENCIES ONLY Contact : 1800 033 111 (All Hours Australia)
0800 734 607 (All Hours New Zealand)

Amtrade International Pty Ltd: 61 3 9229 9229 (Melbourne)
61 2 9805 4200 (Sydney)
Amtrade New Zealand Limited : 64 9 579 6767 (Auckland)

NOTE: This MSDS summarises our best knowledge of the health and safety hazard information on the product, and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace, including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company, or in the event of an emergency, the Emergency Response number above.

Our responsibility for products sold is subject to our standard terms and conditions, a copy is sent to our customers and is also available on request.

User Codes

| | <u>User Code</u> |
|---------------|------------------|
| Authorised by | J.Simpson |
| Prepared by | JS070921 |

Other Information

Key Changes: Converted to a 16 Part MSDS & General Review.
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...End Of MSDS...