Safety Data Sheet

1. Identification

GHS Product Identifier: POTASSIUM BICARBONATE
Company Name: CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)
Address: 38 - 50 Bedford Street GILLMAN
SA 5013  Australia
Telephone/Fax Number: Tel: (08) 8440-2000
Fax: (08) 8440-2001

Recommended use of the chemical and restrictions on use: Manufacture of pure potassium carbonate, low-pH liquid detergents, fire-extinguishing agent, analytical reagent, agriculture (improves soils, corrects soil pH, reduces acidity, fertilizer, feed), catalyst (polymerization of synthetic fibres, dehydrogenation of olefins), pharmaceuticals and foods (antacid, electrolyte replenisher and potassium supplement, an excipient, leavening agent (baking powders), pH control agent, and a nutrient supplement (e.g., infant formulations), processing aid in extruded foods, foaming and fizzing agent in instant beverages, colour preservative), used in impregnated paper or cellulose as a filter for tobacco smoke, household odour remover, an accelerator in fast setting cements, aqueous resin-based coatings and adhesives, high-temperature polymer blowing agent, detergent builder, deicer, hair and skin products, and laboratory reagent.

Other Information: Chem-Supply Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Chem-Supply Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Chem-Supply Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

2. Hazard Identification

GHS classification of the substance/mixture: Classified as non-Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia. Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

3. Composition/information on ingredients

Chemical Characterization Ingredients: Solid

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS</th>
<th>Proportion</th>
<th>Hazard Symbol</th>
<th>Risk Phrase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Hydrogen Carbonate</td>
<td>298-14-6</td>
<td>100 %</td>
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</tbody>
</table>

4. First-aid measures

Inhalation: If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Ingestion: Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.

Skin: Wash affected area thoroughly with copious amounts of running water. Remove contaminated clothing and wash before reuse. Seek medical attention in severe cases, or if irritation develops.

Eye contact: If contact with the eye(s) occurs, wash with copious amounts of water for approximately 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If persistent irritation occurs, obtain medical attention.

First Aid Facilities: Normal washroom facilities.

Advice to Doctor: Treat symptomatically and supportively.
5. Fire-fighting measures

Hazard from Combustion Products: Irritating and highly toxic gases including carbon monoxide, carbon dioxide, oxides of potassium and potassium carbonate.

Specific Methods: Use extinguishing media most appropriate for the surrounding fire. No limitations to the type of extinguishing media.

Specific hazards arising from the chemical Decomposition Temp.: Material does not burn. Runoff may pollute waterways. Fire or heat may produce irritating, poisonous and/or corrosive fumes. Containers may explode when heated.

approx. 127 °C.

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6. Accidental release measures

Wear protective clothing specified for normal operations (see Section 8)

Personal Protection: Wear protective clothing specified for normal operations (see Section 8)

Clean-up Methods - Small Spillages: Sweep up (avoid generating dust) and using clean non-sparking tools transfer to a clean, suitable, clearly labelled container for disposal in accordance with local regulations.

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7. Handling and storage

Precautions for Safe Handling: Avoid ingestion and inhalation of dust. Avoid contact with skin and eyes. Avoid generating dust. Keep containers tightly closed when not in use. Protect against physical damage. Use in designated areas with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment if you feel unwell, seek medical attention and show the label when possible. Wear suitable protective clothing. Ensure a high level of personal hygiene is maintained when using this product. That is; always wash hands before eating, drinking, smoking or using the toilet. When using, do not eat, drink or smoke. Wash thoroughly after handling. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product. Do not reuse containers.

Conditions for safe storage, including any incompatibilities: Store in a cool, dry place. Keep containers closed at all times.

Store in labelled, corrosion-resistant, tightly closed containers, in a cool, dry, well-ventilated area away from incompatible materials. Material is very hygroscopic. Protect from physical damage, direct sunlight and moisture. Use shelves or cabinets sturdy enough to bear the weight of the chemicals. Be sure that it is not necessary to strain to reach materials, and that shelves are not overloaded. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

A corrosion inhibitor.

Corrosiveness: Store at room temperature (15 to 25 °C recommended).

8. Exposure controls/personal protection

Other Exposure Information: A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by Safe Work Australia for this product. There is a blanket limit of 10 mg/m³ for dusts when limits have not otherwise been established.

Appropriate engineering controls: In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.

Respiratory Protection: Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

Eye Protection: The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate.

Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

Hand Protection: Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance. Recommendation: Excellent: NR latex, vinyl, nitrile, neoprene gloves.
POTASSIUM BICARBONATE

Not classified as hazardous

9. Physical and chemical properties

Form: Solid
Appearance: Clear, colourless to white monoclinic crystals, granular solid, powder, or crystalline powder.
Odour: Odourless.
Decomposition Temperature: approx. 127 °C.
Melting Point: Decomposes.
Boiling Point: Decomposes.
Solubility in Water: Very highly soluble (333 g/1 @ 20 °C).
Specific Gravity: 2.17
pH: 8.4 - 8.6 (99 g/l, H2O, 20 °C), slightly basic in solution.
Vapour Pressure: 0 hPa at 20 °C.
Volatile Component: 0 %vol @ 21 °C
Density: Bulk Density: 990 - 1120 kg/m³.
Flammability: Non combustible material.
Molecular Weight: 100.12
Other Information: Taste: salty.

10. Stability and reactivity

Chemical Stability: Stable under normal temperatures, pressures and conditions of use and storage.
Conditions to Avoid: Contact with acids, bases, lime (forms corrosive potassium hydroxide (KOH)), exposure to heat, flame, other sources of ignition, and incompatible materials.
Incompatible Materials: Strong oxidising agents and acids, acidic conditions, bases. (Potassium carbonyl, magnesium, chlorine trifluoride are listed for the carbonate.)
Hazardous Decomposition Products: Irritating and highly toxic gases including carbon monoxide, carbon dioxide, oxides of potassium and potassium carbonate.
Possibility of hazardous reactions: Develops CO2 when reacted with acid.
Hazardous Polymerization: Will not occur.

11. Toxicological Information

Ingestion: May cause irritation of the digestive tract. Large quantities may cause nausea, upset stomach, vomiting, loss of appetite, and diarrhoea.
Inhalation: Mild alkaline irritant to respiratory system. Inhalation of product dusts may cause irritation of the nose, throat and respiratory system. Coughing, sneezing, possible breathing difficulty in acute cases.
Skin: May cause slight skin irritation or mechanical irritation resulting in redness and itching.
Eye: May cause mild to moderate eye irritation, or abrasive irritation, resulting in possible redness and itching due to alkaline effect or abrasion.
Carcinogenicity: Not listed in the IARC Monographs.
Chronic Effects: Prolonged or repeated exposure to this material will result in skin irritation leading to possible dermatitis, and may aggravate existing respiratory disorders.

12. Ecological information
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Infosafe No™ 1CHB9  Issue Date: February 2018  RE-ISSUED by CHEMSUPP

Product Name: POTASSIUM BICARBONATE

Not classified as hazardous

13. Disposal considerations

Disposal Considerations: Dispose of according to relevant local, state and federal government regulations.

14. Transport information

Transport Information: Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

15. Regulatory information

Regulatory Information: Listed in the Australian Inventory of Chemical Substances (AICS).

Poisons Schedule: Not Scheduled

16. Other Information

Literature References:
- Commonwealth Department of Health and Aged Care, 'Standard for the Uniform Scheduling of Drugs and Poisons No. 17', Commonwealth of Australia, Canberra 2002.

Contact Person/Point:
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Empirical Formula & Structural Formula:
KHCO3

...End Of MSDS...