Potassium Bicarbonate

SECTION 1. IDENTIFICATION

Product Identifier: Potassium Bicarbonate
Other Means of Identification: Carbonic acid, monopotassium salt
Product Code(s): PO1510, PO1520, PO1530
Product Family: Inorganic Solid
Recommended Use: Laboratory.
Restrictions on Use: None known.
Supplier Identifier: Alphachem Limited, 2485 Milltower Court, Mississauga, Ontario, L5N 5Z6, (905) 821-2995
Emergency Phone No.: CANUTEC CANADA, 613-996-6666, 24 Hours
SDS No.: 0332

SECTION 2. HAZARD IDENTIFICATION

Classification
Not classified under any hazard class.
Label Elements
Not applicable
Other Hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>%</th>
<th>Other Identifiers</th>
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<tbody>
<tr>
<td>Carbonic acid, monopotassium salt</td>
<td>298-14-6</td>
<td>95 - 100</td>
<td>Potassium Bicarbonate</td>
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<tr>
<td>Potassium carbonate</td>
<td>584-08-7</td>
<td>&lt; 2.5</td>
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</table>

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation
Remove source of exposure or move to fresh air. Move to fresh air. Keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms (e.g. coughing, shortness of breath, wheezing), call a Poison Centre or doctor.

Skin Contact
Immediately rinse with lukewarm, gently flowing water for 15-20 minutes. If skin irritation occurs, get medical advice or attention.

Eye Contact
Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Immediately call a Poison Centre or doctor.
Ingestion
Do not induce vomiting. Rinse mouth with water. If vomiting occurs, have person lie on side in the recovery position. Rinse mouth with water again. Immediately call a Poison Centre or doctor.

First-aid Comments
Some of the first-aid procedures recommended here require advanced first-aid training. If exposed or concerned, get medical advice or attention.

Most Important Symptoms and Effects, Acute and Delayed
None known.

Immediate Medical Attention and Special Treatment

Special Instructions
General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media
Not combustible. Use extinguishing agent suitable for surrounding fire.

Unsuitable Extinguishing Media
None known.

Specific Hazards Arising from the Product
Does not burn.
Not known to generate any hazardous decomposition products in a fire.

Special Protective Equipment and Precautions for Fire-fighters
Fight fire from a safe distance or a protected location. Approach fire from upwind to avoid hazardous vapours or gases. For a massive fire, immediately evacuate the area and use unmanned hose holder or monitor nozzles. Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn. A full-body encapsulating chemical protective suit with positive pressure SCBA may be necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures
Emergency responders: use the personal protective equipment recommended in Section 8 of this safety data sheet. Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. Increase ventilation to area or move leaking container to a well-ventilated and secure area.

Environmental Precautions
It is good practice to prevent releases into the environment.

Methods and Materials for Containment and Cleaning Up
Avoid generating dust. Collect using shovel/scoop or approved HEPA vacuum and place in a suitable container for disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling
Wear personal protective equipment to avoid direct contact with this chemical. Do not get in eyes, on skin or on clothing. Avoid generating dusts. Only use where there is adequate ventilation. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Prevent accidental contact with incompatible chemicals.

Conditions for Safe Storage
No special requirements for storage area. Store in an area that is: cool, dry, well-ventilated, separate from incompatible materials (see Section 10: Stability and Reactivity). Store in the original, labelled, shipping container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Product Identifier:
Potassium Bicarbonate

Date of Preparation:
January 26, 2016
Control Parameters
Not available.
Not listed for ACGIH, NIOSH and OSHA.

Appropriate Engineering Controls
Use local exhaust ventilation and enclosure, if necessary, to control amount in the air. Provide eyewash and safety shower if contact or splash hazard exists.

Individual Protection Measures

Eye/Face Protection
Wear chemical safety goggles and face shield when contact is possible.

Skin Protection
Wear chemical protective clothing e.g. gloves, aprons, boots.

Respiratory Protection
Not usually required when working with small quantities. For non-routine or emergency situations: wear a NIOSH approved air-purifying respirator with an appropriate cartridge.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance
White powder.

Odour
Odourless

Odour Threshold
Not available

pH
8.2 (1% solution)

Melting Point/Freezing Point
100 - 200 °C (212 - 392 °F) (melting); Not applicable (freezing)

Initial Boiling Point/Range
Not applicable

Flash Point
Not applicable

Evaporation Rate
Not applicable

Flammability (solid, gas)
Will not burn.

Upper/Lower Flammability or Explosive Limit
Not applicable (upper); Not applicable (lower)

Vapour Pressure
Not applicable

Vapour Density (air = 1)
Not available

Relative Density (water = 1)
2.17

Solubility
Soluble in water; Not available (in other liquids)

Partition Coefficient, n-Octanol/Water (Log Kow)
Not available

Auto-ignition Temperature
Not applicable

Decomposition Temperature
100 - 200 °C (212 - 392 °F)

Viscosity
Not applicable (kinematic); Not applicable (dynamic)

Other Information
Physical State
Solid

SECTION 10. STABILITY AND REACTIVITY

Reactivity
Not reactive under normal conditions of use.

Chemical Stability
Normally stable.

Possibility of Hazardous Reactions
None known.

Conditions to Avoid

Product Identifier: Potassium Bicarbonate
Date of Preparation: January 26, 2016
Open flames, sparks, static discharge, heat and other ignition sources. Temperatures above 100.0 °C (212.0 °F)

Incompatible Materials
Strong oxidizing agents (e.g. perchloric acid), strong acids (e.g. hydrochloric acid), metals (e.g. aluminum).

Hazardous Decomposition Products
Very toxic carbon monoxide, carbon dioxide, potassium oxide.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure
Inhalation; skin contact; eye contact; ingestion.

Acute Toxicity
LC50: No information was located.
LD50 (oral): No information was located.
LD50 (dermal): No information was located.

Skin Corrosion/Irritation
May cause mild irritation based on information for closely related chemicals.

Serious Eye Damage/Irritation
May cause mild irritation based on information for closely related chemicals.

STOT (Specific Target Organ Toxicity) - Single Exposure

  Inhalation
  May cause nose and throat irritation.
  
  Skin Absorption
  No information was located.
  
  Ingestion
  No information was located.

Aspiration Hazard
No information was located.

STOT (Specific Target Organ Toxicity) - Repeated Exposure
No information was located.

Respiratory and/or Skin Sensitization
No information was located.

Carcinogenicity

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<th>IARC</th>
<th>ACGIH®</th>
<th>NTP</th>
<th>OSHA</th>
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<td>Not Listed</td>
<td>Not Listed</td>
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<tr>
<td>Potassium carbonate</td>
<td>Not Listed</td>
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<td>Not Listed</td>
</tr>
</tbody>
</table>

Reproductive Toxicity

  Development of Offspring
  No information was located.

  Sexual Function and Fertility
  No information was located.

  Effects on or via Lactation
  No information was located.

Germ Cell Mutagenicity
No information was located.

Interactive Effects
No information was located.
SECTION 12. ECOLOGICAL INFORMATION
This section is not required by WHMIS. This section is not required by OSHA HCS 2012.

SECTION 13. DISPOSAL CONSIDERATIONS
Disposal Methods
Dispose of contents and container in accordance with local, regional, national and international regulations.

SECTION 14. TRANSPORT INFORMATION
Special Precautions Not applicable
Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code
Not applicable

SECTION 15. REGULATORY INFORMATION
Safety, Health and Environmental Regulations
Canada
Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)
Listed on the DSL.
USA
Toxic Substances Control Act (TSCA) Section 8(b)
Listed on the TSCA Inventory.

SECTION 16. OTHER INFORMATION
NFPA Rating
Health - 1  Flammability - 0  Instability - 0
SDS Prepared By
Alphachem Limited
Phone No.
(905)-821-2995
Date of Preparation
January 26, 2016
Date of Last Revision
March 31, 2016
References
Armand Products Company database.
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