

## Potassium Carbonate Anhydrous

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Potassium Carbonate Anhydrous

**Synonyms/Generic Names:** Carbonate of potash; Carbonic acid, dipotassium salt; Dipotassium carbonate

**SDS Number:** 553.00

**Product Use:** For Educational Use Only

**Manufacturer:** Columbus Chemical Industries, Inc.  
N4335 Temkin Rd.  
Columbus, WI. 53925

**For More Information Contact:** Ward's Science  
5100 West Henrietta Rd.  
PO Box 92912-9012  
Rochester, NY 14692  
(800) 962-2660 (Monday-Friday 7:30-7:00 Eastern Time)

**In Case of Emergency Call:** CHEMTREC - 800-424-9300 or 703-527-3887 (24 Hours/Day, 7 Days/Week)

### 2. HAZARDS IDENTIFICATION

**OSHA Hazards:** Harmful by ingestion, Irritant

**Target Organs:** None

**Signal Words:** Warning

**Pictograms:**



**GHS Classification:**

|                      |             |
|----------------------|-------------|
| Acute toxicity, Oral | Category 4  |
| Skin irritation      | Category 2  |
| Eye irritation       | Category 2A |

**GHS Label Elements, including precautionary statements:**

**Hazard Statements:**

|      |                                  |
|------|----------------------------------|
| H302 | Harmful if swallowed             |
| H315 | Causes skin irritation           |
| H319 | Causes serious eye irritation    |
| H335 | May cause respiratory irritation |

**Precautionary Statements:**

|                |  |
|----------------|--|
| P261           | Avoid breathing dust/fume/gas/mist/vapors/spray.   |
| P264           | Wash skin thoroughly after handling.   |
| P280           | Wear protective gloves/eye protection/face protection.   |
| P301+P312      | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.   |
| P302+P352      | IF ON SKIN: Wash with plenty of soap and water.  |
| P304+P340      | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.                                 |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P312           | Call a POISON CENTER or doctor/physician if you feel unwell.   |

**Potential Health Effects**

|                   |   |
|-------------------|---|
| <b>Eyes</b>       | May cause eye irritation.   |
| <b>Inhalation</b> | May be harmful if inhaled. May cause irritation to the respiratory tract. |
| <b>Skin</b>       | May be harmful if absorbed through skin. May cause skin irritation.       |
| <b>Ingestion</b>  | May be harmful if swallowed.  |

**NFPA Ratings**

|                        |               |
|------------------------|---------------|
| <b>Health</b>          | 2             |
| <b>Flammability</b>    | 0             |
| <b>Reactivity</b>      | 0             |
| <b>Specific hazard</b> | Not Available |

**HMIS Ratings**

|                   |   |
|-------------------|---|
| <b>Health</b>     | 2 |
| <b>Fire</b>       | 0 |
| <b>Reactivity</b> | 0 |
| <b>Personal</b>   | C |

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Component           | Weight % | CAS #    | EINECS# / ELINCS# | Formula                        | Molecular Weight |
|---------------------|----------|----------|-------------------|--------------------------------|------------------|
| Potassium Carbonate | 100      | 584-08-7 | 209-529-3         | K <sub>2</sub> CO <sub>3</sub> | 138.21 g/mol     |

**4. FIRST-AID INFORMATION**

|                   |  |
|-------------------|--|
| <b>Eyes</b>       | In case of eye contact, rinse with plenty of water and seek medical attention.   |
| <b>Inhalation</b> | Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention. |
| <b>Skin</b>       | Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention.            |
| <b>Ingestion</b>  | <b>Do Not Induce Vomiting!</b> Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention.      |

**5. FIREFIGHTING MEASURES**

|  |  |
|--|--|
| <b>Suitable (and unsuitable) extinguishing media</b>                 | Product is not flammable. Use appropriate media for adjacent fire.   |
| <b>Special protective equipment and precautions for firefighters</b> | Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.      |
| <b>Specific hazards arising from the chemical</b>                    | Emits toxic fumes (carbon dioxide, Potassium oxides) under fire conditions. (See also Stability and Reactivity section.) |

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## 6. ACCIDENTAL RELEASE MEASURES

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|--|--|
| <b>Personal precautions, protective equipment and emergency procedures</b> | See section 8 for recommendations on the use of personal protective equipment.   |
| <b>Environmental precautions</b>   | Prevent spillage from entering drains. Any release to the environment may be subject to a federal/national or local reporting requirements.  |
| <b>Methods and materials for containment and cleaning up</b>               | Pick up and arrange disposal without creating dust. Sweep up and keep in suitable, closed containers for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste or cleanup materials in accordance with local regulations. Containers, even when empty, will retain residue and vapors. |

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## 7. HANDLING AND STORAGE

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### Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use.

### Conditions for safe storage, including any incompatibilities

Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities).

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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**Occupational exposure controls:** Contains no substances with occupational exposure limit values.

### Personal Protection

|                   |   |
|-------------------|---|
| <b>Eyes</b>       | Wear chemical safety glasses.   |
| <b>Inhalation</b> | Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator. |
| <b>Skin</b>       | Wear neoprene or nitrile gloves, protective clothing appropriate to the risk of exposure.                   |
| <b>Other</b>      | Not Available   |

### Other Recommendations

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling. Have supplies and equipment for neutralization and running water available.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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|   |                                   |
|---|-----------------------------------|
| Appearance (physical state, color, etc.)    | White solid.                      |
| Odor  | No odor                           |
| Odor threshold                              | Not Available                     |
| pH  | 11.0-13 at 138 g/l at 25°C (77°F) |
| Melting point/freezing point                | 891°C (1636°F)                    |
| Initial boiling point and boiling range     | Not Available                     |
| Flash point                                 | Not Flammable                     |
| Evaporation rate                            | Not Available                     |
| Flammability (solid, gas)                   | Not Flammable                     |
| Upper/lower flammability or explosive limit | Not Explosive                     |
| Vapor pressure                              | Not Available                     |

|  |                             |
|--|-----------------------------|
| Vapor density                          | Not Available               |
| Relative density                       | Not Available               |
| Solubility (ies)                       | Completely soluble in water |
| Partition coefficient: n-octanol/water | Not Available               |
| Auto-ignition temperature              | Not Flammable               |
| Decomposition temperature              | Not Available               |

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## 10. STABILITY AND REACTIVITY

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|   |                                  |
|---|----------------------------------|
| <b>Chemical Stability</b>                 | Stable                           |
| <b>Possibility of Hazardous Reactions</b> | Will not occur.                  |
| <b>Conditions to Avoid</b>                | Exposure to moisture; high heat  |
| <b>Incompatible Materials</b>             | Acids                            |
| <b>Hazardous Decomposition Products</b>   | Carbon oxides, Potassium oxides. |

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## 11. TOXICOLOGICAL INFORMATION

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### Acute Toxicity

|                    |                               |
|--------------------|-------------------------------|
| <b>Skin</b>        | Not Available                 |
| <b>Eyes</b>        | Not Available                 |
| <b>Respiratory</b> | Not Available                 |
| <b>Ingestion</b>   | LD50 Oral – rat – 1,870 mg/kg |

### Carcinogenicity

|              |  |
|--------------|--|
| <b>IARC</b>  | No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. |
| <b>ACGIH</b> | No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.            |
| <b>NTP</b>   | No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.                 |
| <b>OSHA</b>  | No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.             |

### Signs & Symptoms of Exposure

|                    |   |
|--------------------|---|
| <b>Skin</b>        | Redness, irritation, itching and pain.  |
| <b>Eyes</b>        | Eye burns, pain, watering eyes.   |
| <b>Respiratory</b> | Coughing, shortness of breath, burning, choking, wheezing, laryngitis, headache or nausea.                                    |
| <b>Ingestion</b>   | Repeated ingestion of small amounts may cause weakness, confusion, central nervous system effects, nausea and skin eruptions. |

|                                       |                                      |
|---------------------------------------|--------------------------------------|
| <b>Chronic Toxicity</b>               | May cause dermatitis.                |
| <b>Teratogenicity</b>                 | Not Available                        |
| <b>Mutagenicity</b>                   | Rat- Oral, Unscheduled DNA synthesis |
| <b>Embryotoxicity</b>                 | Not Available                        |
| <b>Specific Target Organ Toxicity</b> | Not Available                        |

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## 12. ECOLOGICAL INFORMATION

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### Ecotoxicity

|                             |  |
|-----------------------------|--|
| <b>Aquatic Vertebrate</b>   | LC50 – Pimephales promelas (fathead minnow)- <510 mg/l- 96 h |
| <b>Aquatic Invertebrate</b> | Not Available  |
| <b>Terrestrial</b>          | Not Available  |

|                                      |               |
|--------------------------------------|---------------|
| <b>Persistence and Degradability</b> | Not Available |
| <b>Bioaccumulative Potential</b>     | Not Available |
| <b>Mobility in Soil</b>              | Not Available |
| <b>PBT and vPvB Assessment</b>       | Not Available |
| <b>Other Adverse Effects</b>         | Not Available |

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### 13. DISPOSAL CONSIDERATIONS

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|                           |   |
|---------------------------|---|
| <b>Waste Residues</b>     | Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste products or residues. |
| <b>Product Containers</b> | Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.    |

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

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### 14. TRANSPORTATION INFORMATION

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|                  |                     |
|------------------|---------------------|
| US DOT           | Not Dangerous Goods |
| TDG              | Not Dangerous Goods |
| IMDG             | Not Dangerous Goods |
| Marine Pollutant | No                  |
| IATA/ICAO        | Not Dangerous Goods |

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### 15. REGULATORY INFORMATION

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|                           |   |
|---------------------------|---|
| TSCA Inventory Status     | All ingredients are listed on the TSCA inventory.                                     |
| DSCL (EEC)                | All ingredients are listed on the DSCL inventory.                                     |
| California Proposition 65 | Not Listed  |
| SARA 302                  | Not Listed  |
| SARA 304                  | Not Listed  |
| SARA 311                  | No SARA Hazards   |
| SARA 312                  | No SARA Hazards   |
| SARA 313                  | Not Listed  |
| WHMIS Canada              | Class D-2B: Toxic Material Causing Other Toxic Effects<br>Class E: Corrosive Material |

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## 16. OTHER INFORMATION

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| Revision   | Date       |
|------------|------------|
| Revision 1 | 02/04/2013 |
|            |            |
|            |            |

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