Section 1  Chemical Product and Company Identification

HOME SCIENCE TOOLS
665 Carbon Street
Billings, MT 59102
800-860-6272
www.homesciencetools.com

Section 2  Hazards Identification

Product: POTASSIUM CHLORIDE
Synonyms: Muriate of Potash / Potassium Muriate / Potassium Monochloride

Signal word: WARNING
Pictograms: No symbol required
Target organs: None known

GHS Classification:
Acute toxicity, oral (Category 5)

GHS Label information: Hazard statement:
H303: May be harmful if swallowed.

Hazard not otherwise classified:
Health hazards not otherwise classified (HHNOC) - Not Known
Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3  Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>%</th>
<th>EINECS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium chloride</td>
<td>7447-40-7</td>
<td>95.0 - 99.5%</td>
<td>231-211-8</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>7647-14-5</td>
<td>0.3 - 3.7%</td>
<td>231-598-3</td>
</tr>
<tr>
<td>Calcium and Magnesium chlorides and sulfates</td>
<td>Various</td>
<td>0.2 - 1.3%</td>
<td>Various</td>
</tr>
</tbody>
</table>

Section 4  First Aid Measures

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5  Fire Fighting Measures

Suitable Extinguishing Media: Carbon dioxide, dry chemical, dry sand, alcohol foam.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Section 6  Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Recover for reuse if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.
**Section 7 Handling & Storage**

**Precautions for Safe Handling:** Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

**Conditions for Safe Storage:** Store in a cool, dry, well-ventilated area away from incompatible substances.

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**Section 8 Exposure Limits / Personal Protection**

<table>
<thead>
<tr>
<th>Exposure Limits:</th>
<th>Chemical Name</th>
<th>ACGIH (TLV)</th>
<th>OSHA (PEL)</th>
<th>NIOSH (REL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Particles not otherwise classified</td>
<td>Not established</td>
<td>TWA: 15 mg/m³ total dust</td>
<td>Not established</td>
<td></td>
</tr>
</tbody>
</table>

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

**Respiratory protection:** None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

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**Section 9 Physical & Chemical Properties**

**Appearance:** Solid. White crystals or powder.

**Odor:** No odor.

**Odor threshold:** Data not available.

**pH:** 5.4-10.0 (5% solution)

**Melting / Freezing point:** 1500°C (2732°F) Sublimes

**Boiling point:** 772-776°C (1423-1428°F)

**Partition coefficient:** Data not available

**Auto-ignition temperature:** Data not available

**Decomposition temperature:** Data not available

**Viscosity:** Data not available

**Molecular formula:** KCl

**Molecular weight:** 74.56

**Section 10 Stability & Reactivity**

**Chemical stability:** Stable

**Hazardous polymerization:** Will not occur.

**Conditions to avoid:** Excessive temperatures and heat. Hygroscopic material.

**Incompatible materials:** Avoid contact with hot Nitric acid, may cause evolution of toxic Nitrosyl chloride. Contact with other strong acids may produce irritating Hydrogen chloride gas. May react violently with Bromine trifluoride and may explode if mixed with Potassium permanganate and Sulfuric acid. Can react with most metals, such as Iron or Steel, building materials such as cement, Bromine or Trifluoride. Potentially explosive reaction may occur if mixed with Dichloromaleic anhydride and Urea.

**Hazardous decomposition products:** None known. See above reactions.

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**Section 11 Toxicological Information**

**Acute toxicity:** Oral-lad LD50: 2,600 mg/kg

**Inhalation hazard:** Data not available

**Ingestion:** May cause nausea, vomiting, diarrhea, abdominal cramping, irregular heartbeats, dehydration, and hypertension.

**Skin:** Contact may cause mild irritation, redness.

**Eyes:** Contact with eyes causes mild irritation including stinging, watering and redness.

**Signs and symptoms of exposure:** Conditions aggravated by exposure may include kidney disorders and high blood pressure (hypertension). Exercise appropriate procedures to minimize potential hazards.

**Additional information:** RTECS #: TS805000

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**Section 12 Ecological Information**

**Toxicity to fish:** Gambusia affinis (fish, fresh water), LC50 = 10,000 mg/L/24 hours

**Toxicity to daphnia and other aquatic invertebrates:** Daphnia magna (Crustacea), EC100 = 1,010 mg/L/24 hours

**Persistence and degradability:** Bioaccumulative potential: No data available

**Mobility in soil:** No data available

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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**Section 13 Disposal Considerations**

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

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**Section 14 Transport Information (US DOT / CANADA TDG)**

**UN/NA number:** Not applicable

**Shipping name:** Not Regulated

**Hazard class:** Not applicable

**Packing group:** Not applicable

**2016 ERG Guide #** Not applicable

**Reportable Quantity:** No

**Marine pollutant:** No

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**Section 15 Regulatory Information**

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

<table>
<thead>
<tr>
<th>Component</th>
<th>TSCA</th>
<th>CERLCA (RQ)</th>
<th>RCRA code</th>
<th>DSL</th>
<th>NDSL</th>
<th>CA Prop 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium chloride</td>
<td>Listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Listed</td>
<td>Not listed</td>
<td>This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.</td>
</tr>
</tbody>
</table>

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**Section 16 Other Information**

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

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