1. IDENTIFICATION

Product identifier

Product code: P1190
Product Name: POTASSIUM HYDROGEN PHTHALATE, ACIDIMETRIC STANDARD, CRYSTAL, REAGENT SPECIAL, ACS

Other means of identification

Synonyms: Hydrogen potassium phthalate
Phthalic acid, monopotassium salt
Potassium acid phthalate
Potassium Hydrogen Phthalate
Potassium Biphthalate

CAS #: 877-24-7
RTECS #: CZ4326000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: No information available.
Uses advised against: No information available

Supplier: Spectrum Chemical Mfg. Corp
14422 South San Pedro St.
Gardena, CA  90248
(310) 516-8000

Order Online At: https://www.spectrumchemical.com
Emergency telephone number: Chemtrec 1-800-424-9300
Contact Person: Martin LaBenz (West Coast)
Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

Not classified
Hazards not otherwise classified (HNOC)
Not Applicable

Other hazards
Not available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
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<td>Potassium Biphthalate</td>
<td>877-24-7</td>
<td>100</td>
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### 4. FIRST AID MEASURES

**First aid measures**

**General Advice:** National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops. Consult a physician if necessary.

**Eye Contact:** Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.

**Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. In case of shortness of breath, give oxygen. Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** Health injuries are not known or expected under normal use

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician:** Treat symptomatically.

**Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media**

**Suitable Extinguishing Media:** Carbon dioxide (CO2). Dry chemical. Water spray mist or foam.

**Unsuitable Extinguishing Media:** No information available.

**Specific hazards arising from the chemical**

**Hazardous Combustion Products:** Carbon Monoxide, Carbon Dioxide. Potassium oxides.
Specific hazards: May be combustible at high temperatures.

**Special Protective Actions for Firefighters**

**Specific Methods:** No information available.

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

---

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions:** Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Remove all sources of ignition.

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

**Methods and material for containment and cleaning up**

**Methods for containment** Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

**Methods for cleaning up** Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

---

### 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Technical Measures/Precautions:** Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. All equipment used when handling the product must be grounded. Keep away from incompatible materials.

**Safe Handling Advice** Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not ingest. Do not breathe dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Technical Measures/Storage Conditions:** Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

**Incompatible Materials:**
- Oxidizing agents
- Nitric acid

---

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**National occupational exposure limits**

---

**Product code:** P1190  
**Product name:** POTASSIUM HYDROGEN PHTHALATE, ACIDIMETRIC STANDARD, CRYSTAL, REAGENT SPECIAL, ACS
### United States

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### Canada

<table>
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<tr>
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<th>Canada - British Columbia</th>
<th>Canada - Ontario</th>
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<td>None</td>
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### Australia and Mexico

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<th>Mexico</th>
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<td>Potassium Biphthalate</td>
<td>877-24-7</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

### Appropriate engineering controls

**Engineering measures to reduce exposure:**

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### Individual protection measures, such as personal protective equipment

**Personal Protective Equipment**

**Eye protection:**
Goggles or Safety glasses with side-shields

**Skin and body protection:**
Long sleeved clothing  
Chemical resistant apron  
Gloves

**Respiratory protection:**
Effective dust mask. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.

**Hygiene measures:**
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

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<thead>
<tr>
<th>Physical state:</th>
<th>Appearance:</th>
<th>Color:</th>
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<tbody>
<tr>
<td>Solid</td>
<td>Crystalline powder.</td>
<td>White. Off-white.</td>
</tr>
</tbody>
</table>

**Odor:**
None.

**Taste:**
No information available.

**Formula:**
C8-H5-O4-K

**Molecular/Formula weight:**
204.22

**Flammability:**
No information available

**Flashpoint (°C/°F):**
No information available

**Autoignition Temperature (°C/°F):**
No information available

**Product code:** P1190

**Product name:** POTASSIUM HYDROGEN PHTHALATE, ACIDIMETRIC STANDARD, CRYSTAL, REAGENT SPECIAL, ACS
10. STABILITY AND REACTIVITY

Reactivity
Reactive with oxidizing agents

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Avoid dust formation. Dust may form explosive mixture in air. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Incompatible materials.

Incompatible Materials: Oxidizing agents
Nitric acid


Other Information
Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Product code: P1190

Product name: POTASSIUM HYDROGEN PHTHALATE, ACIDIMETRIC STANDARD, CRYSTAL, REAGENT SPECIAL, ACS
Ingestion. Inhalation.

**Acute Toxicity**

**Component Information**

<table>
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<tr>
<th>Potassium Biphthalate</th>
<th>CAS-No.</th>
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<td>&gt; 3200 mg/kg Oral LD50 Rat</td>
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<td>LD50/oral/mouse =</td>
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</tr>
<tr>
<td>LD50/dermal/rabbit =</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>LD50/dermal/rat =</td>
<td>&gt; 3200 mg/kg Oral LD50</td>
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</tr>
<tr>
<td>LC50/inhalation/rat =</td>
<td>No information available</td>
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<td>LC50/inhalation/mouse =</td>
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<tr>
<td>Other LD50 or LC50 information =</td>
<td>&gt;1 g/kg Dermal LD50 Guinea Pig</td>
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</tr>
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</table>

**Product Information**

| LD50/oral/rat = | VALUE - Acute Tox Oral = | >3200 mg/kg |
| LD50/oral/mouse = | Value - Acute Tox Oral = | No information available |
| LD50/dermal/rabbit = | VALUE - Acute Tox Dermal = | No information available |
| LD50/dermal/rat = | VALUE - Acute Tox Dermal = | No information available |
| LC50/inhalation/rat = | VALUE - Vapor = | No information available |
| VALUE - Gas = | No information available |
| VALUE - Dust/Mist = | No information available |
| LC50/Inhalation/mouse = | VALUE - Vapor = | No information available |
| VALUE - Gas = | No information available |
| VALUE - Dust/Mist = | No information available |

**Symptoms**

**Skin Contact:** May cause skin irritation. Substance may cause slight skin irritation.

**Eye Contact:** Contact with eyes may cause irritation. May cause slight irritation.

**Inhalation** May cause irritation of respiratory tract. Symptoms may include coughing, bronchospasm.

**Ingestion** Health injuries are not known or expected under normal use.

**Aspiration hazard** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Chronic Toxicity** No information available.

**Product code:** P1190

**Product name:** POTASSIUM HYDROGEN PHTHALATE, ACIDIMETRIC STANDARD, CRYSTAL, REAGENT SPECIAL, ACS
Sensitization: No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

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<th>IARC</th>
<th>ACGIH - Carcinogens</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
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</table>

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects: No information available

Developmental Effects: No information available

Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Target Organs: No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

Product code: P1190
Product name: POTASSIUM HYDROGEN PHTHALATE, ACIDIMETRIC STANDARD, CRYSTAL, REAGENT SPECIAL, ACS
<table>
<thead>
<tr>
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<td>None</td>
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</table>

### 14. TRANSPORT INFORMATION

**DOT**
- **UN-No:** Not Regulated
- **Proper Shipping Name:** No information available
- **Hazard Class:** No information available
- **Subsidiary Class:** No information available
- **Packing group:** No information available
- **Emergency Response Guide Number:** No information available
- **Marine Pollutant:** No data available
- **DOT RQ (lbs):** No information available
- **Special Provisions:** No Information available
- **Symbol(s):** No information available
- **Description:** No information available

**TDG (Canada)**
- **UN-No:** Not Regulated
- **Proper Shipping Name:** No information available
- **Hazard Class:** No information available
- **Subsidiary Risk:** No information available
- **Packing Group:** No information available
- **Marine Pollutant:** No Information available
- **Description:** No information available

**ADR**
- **UN-No:** Not Regulated
- **Proper Shipping Name:** No information available
- **Hazard Class:** No information available
- **Packing Group:** No information available
- **Subsidiary Risk:** No information available

**IMO / IMDG**
- **UN-No:** Not Regulated
- **Proper Shipping Name:** No information available
- **Hazard Class:** No information available
- **Packing Group:** No information available
- **Subsidiary Risk:** No information available
- **Marine Pollutant:** No information available

**RID**
- **UN-No:** Not Regulated
- **Proper Shipping Name:** No information available
- **Hazard Class:** No information available
- **Subsidiary Risk:** No information available
- **Packing Group:** No information available

**ICAO**
- **UN-No:** Not Regulated
- **Proper Shipping Name:** No information available
- **Hazard Class:** No information available
- **Subsidiary Risk:** No information available

**Product code:** P1190

**Product name:** POTASSIUM HYDROGEN PHTHALATE, ACIDIMETRIC STANDARD, CRYSTAL, REAGENT SPECIAL, ACS
**15. REGULATORY INFORMATION**

**International Inventories**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>U.S. TSCA</th>
<th>KOREA KECL</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
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<tbody>
<tr>
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<td>Present (ACTIVE)</td>
<td>Present KE-02310</td>
<td>Present</td>
<td>Present (3)-1342,(3)-1 272</td>
<td>Present</td>
<td>Present</td>
<td>Present 212-889-4</td>
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</table>

**U.S. Regulations**


Chemicals Known to the State of California to Cause Cancer:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
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**CERCLA/SARA**

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<th>Components</th>
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<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
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**U.S. TSCA**

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<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
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<tbody>
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</table>

**Canada**

WHIMIS 2015 - GHS Classifications

WHIMIS 2015 Hazard Classification: Not a dangerous product according to HPR classification criteria.

**Product code:** P1190 **Product name:** POTASSIUM HYDROGEN PHTHALATE, ACIDIMETRIC STANDARD, CRYSTAL, REAGENT SPECIAL, ACS
Information:

Component
Potassium Biphthalate
877-24-7 (100)

WHMIS 2015 Hazard Classification
Not a dangerous product according to HPR classification criteria

Canada Hazardous Products Regulation
This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR.

WHMIS 1988 Hazard Class
Non-controlled

Components
Potassium Biphthalate

WHMIS 1988
Uncontrolled product according to WHMIS classification criteria

Canada Controlled Products Regulation:
This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

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EU Classification

EU GHS - SV - CLP 1272/2008

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EU - CLP (1272/2008)

R-phrase(s)
not determined (not applicable)

S-phrase(s)
none

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<th>Components</th>
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<th>Classification</th>
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<th>Safety Phrases</th>
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<td>877-24-7</td>
<td>No information</td>
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</table>

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:
Not dangerous

16. OTHER INFORMATION

Product code: P1190

Product name: POTASSIUM HYDROGEN PHTHALATE, ACIDIMETRIC STANDARD, CRYSTAL, REAGENT SPECIAL, ACS
Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet