SAFETY DATA SHEET: POTASSIUM PERIODATE

1. IDENTIFICATION

Product Name: POTASSIUM PERIODATE
Synonyms: Potassium metaperiodate
Formula and Formula Weight: KIO₄ 230.00
Integra numbers beginning with: P779.10
Recommended Use: Commercial/industrial use
Restrictions on Use: No information available

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Phone: 253-479-7000

2. HAZARDS IDENTIFICATION

OSHA Classification: Hazard Category: Hazard Statement:
Skin Corrosion/Irritation: 2 Causes skin irritation.
Eye Damage/Irritation: 2A Causes serious eye irritation.
Oxidizing Solids: 2 May intensify fire; oxidizer.

Signal Word: Danger

Precautionary Statements

Prevention:
Keep away from heat.
Keep and store away from clothing, combustible materials.
Take any precaution to avoid mixing with combustibles.
Wash thoroughly after handling.
Wear protective gloves, eye protection, face protection.

Response
If on skin: Wash with plenty of water.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Specific treatment (see first aid section on this label)
If skin irritation occurs: Get medical advice, attention.
If eye irritation persists: Get medical advice, attention.
Take off contaminated clothing and wash it before reuse.

Disposal
Dispose of contents, container in accordance with all governmental regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component | Synonyms | CAS # | % Weight
---|---|---|---
Potassium periodate | Potassium metaperiodate | 07790-21-8 | 100

4. FIRST AID MEASURES

Inhalation: Remove person to fresh air.
Eye Contact: Flush eyes with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Seek immediate medical attention.
Skin Contact: Wash with soap and water. Seek medical attention if irritation develops.
Ingestion: Rinse mouth and give victim large quantities of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.
Additional notes: Symptoms and effects include skin, eye, respiratory irritation, gastrointestinal upset, abdominal pain, vomiting, diarrhea, coughing, sore throat, shortness of breath.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Water spray, carbon dioxide, dry chemical or foam.
Special Equipment and Precautions: Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection.
Specific Hazards: Strong oxidizer. Contact with combustible or flammable materials can cause fire or explosion.
6. ACCIDENTAL RELEASE MEASURES
Spill Procedures: Prevent spread of spill. Wear suitable protective equipment. Sweep or scoop into clean, dry disposal container. Flush spill area with water.

7. HANDLING AND STORAGE
Incompatible Materials: Ammonium perchlorate, hydrides, strong reducing agents, finely divided aluminum or magnesium metal, amines
Storage and Handling: Store in a cool, dry, well-ventilated area dedicated to the storage of oxidizers. Keep away from incompatible materials, especially flammable or combustible materials. Keep containers tightly closed and protect them from physical damage. Protect material from exposure to air and moisture.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION
OSHA & ACGIH Exposure Limits:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium periodate</td>
<td>None identified</td>
</tr>
</tbody>
</table>

Engineering Controls: Use adequate general or local exhaust ventilation to keep fume and/or dust levels as low as possible.
Respiratory Protection: If use generates dusts, mists or vapors, use a NIOSH approved respirator with a particulate filter.
Skin/Eye Protective Equipment: Safety goggles, protective clothing and gloves appropriate for the risk of exposure.

Facilities storing or utilizing this material should have readily accessible eyewash stations and safety showers. Select respirators and other safety equipment in accordance with regulations and based upon the particular conditions of use and risk of exposure. Always use safe chemical-handling and good industrial hygiene practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Colorless crystals or powder</td>
</tr>
<tr>
<td>Odor</td>
<td>Not available</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>4.5 - 5.5 for a 2.3g/L solution at 25°C</td>
</tr>
<tr>
<td>Melting/Freezing Point</td>
<td>582 °C</td>
</tr>
<tr>
<td>Initial Boiling Point and Boiling Range</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammable or Explosive Limits (% by volume in air)</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>7.9</td>
</tr>
<tr>
<td>Relative Density</td>
<td>3.62 g/cc</td>
</tr>
<tr>
<td>Solubility</td>
<td>0.42 g in 100 g water at 20°C</td>
</tr>
<tr>
<td>Partition Coefficient: n-octanol/water</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto-Ignition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactivity</td>
<td>No information available</td>
</tr>
<tr>
<td>Stability</td>
<td>Stable</td>
</tr>
<tr>
<td>Possibility of Hazardous Reactions</td>
<td>Hazardous polymerization will not occur</td>
</tr>
<tr>
<td>Conditions to Avoid</td>
<td>Heat, sparks and open flame. Shock or friction.</td>
</tr>
<tr>
<td>Incompatibles</td>
<td>Ammonium perchlorate, hydrides, strong reducing agents, finely divided aluminum or magnesium metal, amines</td>
</tr>
<tr>
<td>Decomposition Products</td>
<td>Oxides of potassium, halogen. Hydrogen iodide.</td>
</tr>
</tbody>
</table>

11. TOXICOLOGICAL INFORMATION

Effects of Over Exposure:

<table>
<thead>
<tr>
<th>Exposure Route</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>May be harmful if inhaled. May cause irritation to the respiratory tract. Symptoms include coughing, sore throat and shortness of breath.</td>
</tr>
<tr>
<td>Skin Contact</td>
<td>Contact may cause skin irritation.</td>
</tr>
<tr>
<td>Eye Contact</td>
<td>Contact may be irritating to the eyes.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>May be harmful if swallowed. May cause gastrointestinal upset with abdominal pain, vomiting, and diarrhea.</td>
</tr>
<tr>
<td>Chronic Effects</td>
<td>Kidney dysfunction, possible blood conditions. May affect the central nervous system.</td>
</tr>
<tr>
<td>Target Organs</td>
<td>None identified</td>
</tr>
<tr>
<td>Additional Effects</td>
<td>May aggravate pre-existing kidney disorders, liver disorders</td>
</tr>
<tr>
<td>Reproductive Effects</td>
<td>None identified</td>
</tr>
</tbody>
</table>

OSHA SDS #: 26219 rev 101  3/27/2015    POTASSIUM PERIODATE
Carcinogenicity: None identified

Toxicity Data:
Potassium periodate No information available.

12. ECOLOGICAL INFORMATION
Potassium periodate
Aquatic Toxicity Data: No information available
Terrestrial Toxicity Data: No information available
Persistence and degradability: No information available
Bioaccumulative potential: No information available
Mobility in soil: No information available
Other adverse effects: No information available

13. DISPOSAL CONSIDERATIONS
Disposal Procedures: Dispose of material and containers in accordance with all local, state and federal regulations.

14. TRANSPORTATION INFORMATION
This product is a regulated material for domestic ground transporation, per CFR Title 49.
UN Number: UN1479
Proper Shipping Name: Oxidizing solid, nos
Packing Group: III
Hazard Class: 5.1
Environmental hazards: No information available
Special precautions: No information available
Bulk transport: No information available

15. REGULATORY INFORMATION
Potassium periodate is listed in the TSCA inventory.

16. OTHER INFORMATION
OSHA SDS #: 26219 rev 101 3/27/2015

NE = Not established, NA = Not applicable or Not available
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***** END OF SDS *****