**SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**MSDS Name:** Potassium meta-Periodate

**Catalog Numbers:** 580144, P277-100, P277-100, P277T100

**Synonyms:**
- Potassium iodate

**Company Identification:**
- Fisher Scientific
- 1 Reagent Lane
- Fairlawn, NJ 07410

**Emergency Numbers:**
- For information, call: 201-796-7100
- For CHEMTREC, call: 800-424-9300
- For International CHEMTREC assistance, call: 510-527-8887

**SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS**

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>% EINECS#</th>
</tr>
</thead>
<tbody>
<tr>
<td>7790-21-8</td>
<td>Periodic acid (HIO4), potassium salt</td>
<td>100 232-196-0</td>
</tr>
</tbody>
</table>

**Hazard Symbols:** ZN D

**Risk Phrases:** 21/22 A

**SECTION 3 - HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

**Appearance:** White.

**Danger:** Oxidizer. May cause eye and skin irritation. May cause respiratory and digestive tract irritation.

**Target Organs:** None.

**Potential Health Effects**

**Eye:**
- May cause moderate eye irritation.

**Skin:**
- May cause moderate skin irritation.

**Ingestion:**
- May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

**Inhalation:**
- May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema.

**Chronic:**
- No information found.

**SECTION 4 - FIRST AID MEASURES**

**Eyes:**
- Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid.

**Skin:**
- Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion:**
- If victim is conscious and alert, give 2-4 cupsfuls of milk or water.
- Never give anything by mouth to an unconscious person. Get medical aid.

**Inhalation:**
- Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notot to Physician:**
- Treat symptomatically and supportively.

**SECTION 5 - FIRE FIGHTING MEASURES**

**General Information:**
- As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH approved or equivalent, and full protective gear. Strong oxidizer. Contact with combustible materials may cause a fire. Decomposes at high temperatures releasing oxygen which may cause an existing fire to burn more vigorously.

**Extinguishing Media:**
- For small fires, use water spray, dry chemical, carbon dioxide or chemical foam.

**Autoignition Temperature:** Not available.

**Flash Point:** Not available.

**Explosion Limits:**
- Lower: Not available.
- Upper: Not available.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:**
- Sweep up, then place into a suitable container for disposal.

**SECTION 7 - HANDLING AND STORAGE**

**Handling:**
- Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use only in a well ventilated area. Avoid contact with skin and eyes. Keep container tightly closed. Avoid contact with clothing and other combustible materials. Avoid ingestion and inhalation.

**Storage:**
- Do not store near combustible materials. Keep away from reducing agents. Heat can cause thermal decomposition and pressure buildup inside container. Keep in tightly closed containers.

**SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

**Engineering Controls:**
- Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA - Final PELs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Periodic acid (HIO4) none listed</td>
<td>none listed</td>
<td>none listed</td>
<td></td>
</tr>
</tbody>
</table>

**OSHA Vacated PELs:**
- Periodic acid (HIO4), potassium salt: No OSHA Vacated PELs are listed for this chemical.

**Personal Protective Equipment**

**Eyes:**
- Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA’s eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:**
- Wear appropriate protective clothing and gloves to prevent skin exposure.

**Respirators:**
- Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State:**
- Solid

**Appearance:** White

**Odor:** Odorless

**pH:**
- Not available.

**Vapor Pressure:**
- Negligible

**Vapor Density:**
- Negligible

**Evaporation Rate:**
- Negligible

**Viscosity:**
- Not applicable.

**Boiling Point:**
- Not applicable.

**Freezing/Melting Point:**
- Not applicable.

**Decomposition Temperature:**
- 583 deg C

**Solubility:**
- Soluble in water.

**Specific Gravity/Density:**
- 2.08 at 150C

**Molecular Formula:**
- KIO4

**Molecular Weight:**
- 230.004

**SECTION 10 - STABILITY AND REACTIVITY**

**Chemical Stability:**
- Stable under normal temperatures and pressures.

**Conditions to Avoid:**
- Incompatible materials.

**Incompatibilities with Other Materials:**
- Strong reducing agents; finely powdered metals; amines; ammonium perchlorate.

**Hazardous Decomposition Products:**
- Oxygen, oxides of potassium, iodide ions (I-).

**Hazardous Polymerization:**
- Will not occur.

**SECTION 11 - TOXICOLOGICAL INFORMATION**
Substances under the CWA: None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA: None of the chemicals in this product are considered highly hazardous by OSHA.

STATE: Periodic acid (HIO4), potassium salt is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Levels: None of the chemicals in this product are listed.

European/International Regulations:

European Labeling in Accordance with EC Directives
Risk Phrases:
R 21/22 Harmful in contact with skin and if swallowed.
R 46 Contact with combustible material may cause fire.
Safety Phrases:
S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection) CAS# 7790-21-8 is listed on Canada's DSL/INFORMATION LIST. This product has a WHMIS classification of C. CAS# 7790-21-8 is not listed on Canada's Ingradient Disclosure List. Exposure Limits

MSDS Creation Date: 3/15/1995 Revision #7 Date: 12/12/1997

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