

## SAFETY DATA SHEET (SDS)

Sodium metaperiodate

### 01. Product and Company Identification

**Product Identifier:**

**Trade Name:** Sodium Metaperiodate  
**Chemical Name:** Sodium periodate (meta)  
**Catalog Number:** 35061401  
**Part of Kits:** 35061258, 35061266  
**Use of chemical:** Laboratory chemical

**Identification of Manufacturer:**

**Manufacturer/Supplier:** Biochemical Diagnostics, Inc.  
 180 Heartland Blvd., Edgewood, NY 11717  
 Phone: (631) 595-9200 | Fax: (631) 595-9204  
**Emergency telephone number:** (800) 255-3924

### 02. Hazard(s) Identification

**Classification of substance or mixture:**

Oxidizing solids (Category 1)  
 Skin corrosion (Category 1C)  
 Serious eye damage (Category 1)  
 Specific target organ toxicity - repeated exposure (Category 1), thymus gland  
 Acute aquatic toxicity (Category 1)

**Label elements:**

**Hazard pictograms**



Oxidizer   Health hazard   Corrosive   Environmental

**Signal word:** Danger

**Hazard statements:**

H271 May cause fire or explosion; strong oxidiser.  
 H314 Causes severe skin burns and eye damage.  
 H318 Causes serious eye damage.  
 H372 Causes damage to organs (thymus gland) through prolonged or repeated exposure.  
 H400 Very toxic to aquatic life

**Precautionary statements:**

P210 Keep away from heat.  
 P220 Keep/Store away from clothing/ combustible materials.  
 P221 Take any precaution to avoid mixing with combustibles.  
 P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
 P264 Wash skin thoroughly after handling.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 P283 Wear fire/ flame resistant/ retardant clothing.  
 P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
 P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.  
 P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.  
 P306 + P360 IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water

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before removing clothes.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

P371 + P380 + P375 In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

#### Classification system:

##### NFPA ratings (scale 0 - 4)



Health = 2

Fire = 0

Reactivity = 3

##### HMIS-ratings (scale 0 - 4)



Health = 2

Fire = 0

Reactivity = 3

### 03. Composition/information on ingredients

**Chemical Characterization:** Compound

**CAS No. Description** : 7790-28-5

**Formula** : INaO4

### 04. First aid measures

#### Description of first aid measures:

**Inhalation:** Remove to fresh air. Consult a physician.

**Ingestion:** Rinse mouth with water. Seek medical attention.

**Skin Contact:** Remove contaminated clothing. Wash immediately with soap and water. Seek medical attention.

**Eye Contact:** Rinse with thoroughly with plenty of water for at least 15 minutes. Seek medical attention.

### 05. Firefighting measures



**Extinguishing media:** Water spray, dry chemical, alcohol-resistant foam, or carbon dioxide.

**Special Fire Fighting Procedures:** Wear proper protective equipment w/Self contained breathing apparatus. Use water spray to cool unopened containers.

**Unusual Fire and Explosion Hazards:** Hydrogen iodide, Sodium oxides

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<b>06. Accidental release measures</b>
<p><b>Personal precautions, protective equipment and emergency procedures:</b> Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.</p>
<p><b>Environmental precautions:</b> Prevent further leakage if safe to do. Do not allow to enter sewers/surface or ground water.</p>
<p><b>Methods and material for containment and cleaning up:</b> Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations. Keep in suitable, closed containers for disposal.</p>
<p><b>Waste Disposal Method:</b> Dispose in accordance with state, local and federal regulations</p>
<b>07. Handling and storage</b>
<p><b>Handling:</b></p> <p><b>Precautions for safe handling:</b> Avoid contact with skin and eyes. Avoid dust formation and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition.</p>
<p><b>Conditions for safe storage, including any incompatibilities:</b></p> <p><b>Requirements to be met by storerooms and receptacles:</b> Store in a cool location. Light sensitive, Hygroscopic.</p> <p><b>Further information about storage conditions:</b> Keep receptacle tightly closed. Store in well-ventilated, cool, dry conditions. Keep container sealed.</p>
<b>08. Exposure controls/ personal protection</b>
<p><b>Exposure Controls:</b></p> <p><b>Control parameters:</b> <b>Components with limit values that require monitoring at the workplace:</b> Contains no substances with occupational exposure limit values.</p>
<p><b>Personal protective equipment:</b></p> <p><b>General protective and hygienic measures:</b> Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.</p>
<p><b>Eye Protection:</b>  Tightly sealed safety glasses or face shield.</p>
<p><b>Skin Protection:</b> Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact</p> <p><b>Protection of Hands:</b>  Protective gloves</p> <p>The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Dispose of gloves after use.</p>
<p><b>Respiratory Protection:</b> If the exposure limit is exceeded use NIOSH approved and tested full-face respirator that is independent of circulating air.</p>

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**Ventilation:** Keep vapor levels as low as possible, use adequate general or local exhaust.

### 09. Physical and chemical properties

**Appearance:**

**Form:** Crystalline

**Color:** White, light yellow

**Odor:** Odorless

**pH:** N/A

**Melting Point:** 270 °C (518 °F)

**Boiling Point:** N/A

**Flash Point:** N/A

**Ignition temperature:** 262 °C (504 °F)

**Explosion limits: Lower:** N/A

**Upper:** N/A

**Vapor Pressure @ 24°C:** N/A

**Specific Gravity @ 20°C (68°F):** 3.865

**Vapor Density:** N/A

**Percent Volatile:** N/A

**Evaporation Rate:** N/A

**Flammable Limits in air % by volume: Lel:** N/A

**Uel:** N/A

**Solubility in/ Miscibility with Water@25°C:** 14.4 g/100 ml water

### 10. Stability and reactivity

**Stability:** Stable

**Incompatibility:** Organic materials, Forms shock-sensitive mixtures with certain other materials., Reducing agents, Powdered metals, Magnesium

**Conditions to Avoid:** Exposure to light.

**Hazardous Polymerization:** Will not occur.

**Hazardous Decomposition:** No data available.

### 11. Toxicological information

**Acute toxicity:**

**LD/LC50 values that are relevant for classification:**

LD50 Intraperitoneal - Mouse - 58 mg/kg

**Potential health effects:**

**On the skin:** Causes skin irritation.

**On the eye:** Causes serious eye damage.

**Inhalation:** May cause irritation to respiratory tract.

**Ingestion:** May be harmful if swallowed.

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### 12. Ecological information

**Toxicity:** semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 0.17 mg/l - 96 h  
static test EC50 - Daphnia magna (Water flea) - 0.18 mg/l - 48 h

**Persistence and degradability:** No data available.

**Bioaccumulative potential:** No data available.

**Mobility in soil:** No data available.

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

### 13. Disposal considerations

**Waste treatment methods**

**Product:**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging:**

Dispose of as unused product.

### 14. Transport Information

**UN Number:**

1479

**UN proper shipping name:**

Oxidizing solid, n.o.s. (Sodium periodate)

**Transport hazard class(es):**

5.1

**Packing group:**

II

**Environmental hazards:**

None

**Special precautions**

None

### 15. Regulatory Information

**SARA 302 Components:**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components:**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards:**

Reactivity Hazard, Acute Health Hazard

*Sodium metaperiodate***16. Other Information****Revision B, June 2015**

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