

## SODIUM METAPERIODATE, AR GRADE

### SECTION 1: PRODUCT IDENTIFICATION

**Product Name:** SODIUM METAPERIODATE, AR GRADE  
**Code No.:** 4106  
**CAS#:** 7790-28-5  
**Synonym:** (Sodium Periodate)  
**Chemical Formula:**  $\text{INaO}_4$   
**Molecular Weight:** 121.93

### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

**Composition:**  
**Name:** SODIUM METAPERIODATE  
**Chemical Formula:**  $\text{INaO}_4$   
**Molecular Formula:** 121.93

### SECTION 3: HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008:**

Oxidizing solids (Category 1), H271 Skin corrosion (Sub-category 1C), H314 Serious eye damage (Category 1), H318 Specific target organ toxicity - repeated exposure (Category 1), thymus gland, H372 Short-term (acute) aquatic hazard (Category 1), H400 Long-term (chronic) aquatic hazard (Category 2), H411.

**Other hazards:** This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher

### SECTION 4: FIRST AID MEASURES

**Description of first-aid measures:**

**General advice:** First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

**If inhaled:** After inhalation fresh air call in physician

**In case of skin contact:** Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

**In case of eye contact:** After eye contact rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

**If swallowed:** After swallowing make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralize.

### SECTION 5: FIRE FIGHTING MEASURES

**Extinguishing media:**

**Suitable extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media:** For this substance/mixture no limitations of extinguishing agents are given.

**Special hazards arising from the substance or mixture:** Hydrogen iodide, Sodium oxides, not combustible.

Has a fire-promoting effect due to release of oxygen.

Ambient fire may liberate hazardous vapors.

**Advice for firefighters:** Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by

keeping a safe distance or by wearing suitable protective clothing.

**Further information:** Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire-extinguishing water from contaminating surface water or the ground water system

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions:** protective equipment and emergency procedures Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, and consult an expert.

**Environmental precautions:** Do not let product enter drains.

**Methods and materials for containment and cleaning up:** Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions. Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

### SECTION 7: HANDLING AND STORAGE

**Precautions for safe handling:**

**Advice on protection against fire and explosion:** Keep away from open flames, hot surfaces and sources of ignition.

**Hygiene measures:** Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance for precautions.

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

**Storage conditions:** Tightly closed. Keep locked up or in an area accessible only to qualified or authorized persons. Separately or together with other oxidizing substances only and away from sources of ignition and heat. Because of their oxidation potential, these products can raise the burning rate of combustible substances substantially or ignite combustible substances on contact with them. Light sensitive. Hygroscopic.

**Storage class Storage class (TRGS 510):** 5.1A: Strongly oxidizing hazardous materials

**Specific end use(s):** Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** 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.

**Personal Protection:** Safety glasses, Lab coat, Dust respirator, Gloves. Be sure to use an approved/certified respirator orequivalent.

**Personal Protection in Case of a Large Spill:** Splash goggles, Full suit, Dust respirator, Boots, Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits:** Not available

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state and appearance</b>	:	White crystalline powder
<b>Odor</b>	:	Not available
<b>Color</b>	:	Not available
<b>Molecular Weight</b>	:	Not available
<b>pH</b>	:	4.0 - 4.5
<b>Boiling Point</b>	:	Not available
<b>Melting Point</b>	:	Not available
<b>Critical Temperature</b>	:	Not available
<b>Specific Gravity</b>	:	Not available
<b>Vapor Pressure</b>	:	Not available
<b>Vapor Density</b>	:	Not available
<b>Volatility</b>	:	Not available



<b>Odor Threshold</b>	:	Not available
<b>Water/Oil Dist. Coeff.</b>	:	Not available
<b>Iconicity (in Water)</b>	:	Not available
<b>Dispersion Properties</b>	:	Not available
<b>Solubility</b>	:	Not available

### SECTION 10: STABILITY AND REACTIVITY DATA

**Reactivity:** Not available

**Chemical stability:** The product is chemically stable under standard ambient conditions (room temperature) hygroscopic

**Possibility of hazardous reactions:** Not available

**Conditions to avoid Exposure to light:** not available

**Incompatible materials:** Not available

**Hazardous decomposition products:** In the event of fire

### SECTION 11: TOXICOLOGICAL INFORMATION

**Information on toxicological effects.**

**Acute toxicity:**

Oral: Not available

Inhalation: Not available

Dermal: Not available

LD50 Intraperitoneal - Mouse - 58 mg/kg.

**Skin corrosion/irritation:**

Skin - In vitro study Result: Corrosive, category 1C - where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days. - 4 h

**Serious eye damage/eye irritation Remarks:** Risk of serious damage to eyes

**Respiratory or skin sensitization:** Not available

**Carcinogenicity:** Not available

**Reproductive toxicity:** Not available

**Specific target organ toxicity - single exposure:** Not available

**Specific target organ toxicity - repeated exposure:** The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1. - Thymus gland

**Aspiration hazard:** Not available

### SECTION 12: ECOLOGICAL INFORMATION

**Toxicity:**

**Toxicity to fish:** semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 0,17 mg/l - 96 h (OECD Test Guideline 203)

**Toxicity to daphnia and other aquatic invertebrates static test EC50:** Daphnia magna (Water flea) - 0,18 mg/l - 48 h (OECD Test Guideline 202)

**Persistence and degradability:** The methods for determining the biological degradability are not applicable to inorganic substances.

**Bio accumulative potential:** Not available

**Mobility in soil:** Not available

**Results of PBT and vPvB assessment:** This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

**Other adverse effects:** Not available

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal:** Waste must be disposed of in accordance with federal, state and local environmental control regulations.

**SECTION 14: TRANSPORT INFORMATION****UN number:****ADR/RID:** 3085**IMDG:** 3085**IATA:** 3085**UN proper shipping name****ADR/RID:** OXIDIZING SOLID, CORROSIVE, N.O.S. (sodium metaperiodate)**IMDG:** OXIDIZING SOLID, CORROSIVE, N.O.S. (sodium metaperiodate)**IATA:** OXIDIZING SOLID, CORROSIVE, N.O.S. (sodium metaperiodate)**Transport hazard class (es):****ADR/RID:** 5.1 (8)**IMDG:** 5.1 (8)**IATA:** 5.1 (8)**Packaging group:****ADR/RID:** I**IMDG:** I**IATA:** I**Environmental hazards:****ADR/RID:** yes**IMDG Marine pollutant:** yes**IATA:** yes**Special precautions for user****Tunnel restriction code:** (E)**Further information:** Not available**SECTION 15: REGULATORY INFORMATION****Safety, health and environmental regulations/legislation specific for the substance or mixture:**

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

**National legislation:**

Seveso III: Directive 2012/18/EU of the European : OXIDISING LIQUIDS AND SOLIDS

Parliament and of the Council on the control of major-accident hazards involving dangerous substances

**Other regulations:** Take note of Dir 94/33/EC on the protection of young people at work.

**Chemical Safety Assessment:** For this product a chemical safety assessment was not carried out

**SECTION 16: OTHER INFORMATION**

**References: Full text of H AND R-Statements:** Under sections 2

**Other Special Considerations:** Not available

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