Safety Data Sheet (United States)

Sodium metaperiodate, ACS

1.Identification

Product name: Sodium metaperiodate, ACS

Catalog#: 4257CH IUPAC name: Not available.

Product use restrictions: Only for research and development use by, or directly under the supervision

of, a technically qualified individual.

Company: AK Scientific, Inc.

30023 Ahern Ave. Union City, CA 94587

Telephone: (510) 429-8835 Fax: (510) 429-8836 Website: www.aksci.com

Emergency contact number: 1-800-633-8253 United States & Canada

1-801-629-0667 International

2. Hazard Identification:

GHS Classification (United States)

Oxidizing solids (Category 1) Skin corrosion (Category 1C) Serious eye damage (Category 1)

Specific target organ toxicity - repeated exposure (Category 1)

Short-term (acute) aquatic hazard (Category 1) Long-term (chronic) aquatic hazard (Category 1)

Pictogram(s)



Signal word:

Danger

Hazard statement(s)

H271 May cause fire or explosion; strong oxidizer. H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s):

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P220 Keep/Store away from clothing and other combustible materials.

P221 Take any precaution to avoid mixing with combustibles.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

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

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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.

P306+P360 If on clothing: Rinse immediately contaminated clothing and skin with plenty

of water before removing clothes.

P314 Get medical advice/attention if you feel unwell. P363 Wash contaminated clothing before reuse.

P370+P378 In case of fire: Use dry sand, dry chemical, CO2, water spray 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.

P391 Collect spillage. P405 Store locked up.

P501 Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS:

None

3. Composition/Information on Ingredients

 Synonyms:
 Sodium periodate

 CAS#:
 7790-28-5

 Purity:
 99.8-100.3%

 EC:
 232-197-6

4. First Aid Measures

General Information: Immediately remove any clothing contaminated by the product. Move out of dangerous area. Consult a physician and show this safety data sheet.

Inhalation: Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical aid.

Skin contact: Immediately flush skin with running water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Obtain medical aid immediately.

Eye contact: Immediately flush open eyes with running water for at least 15 minutes. Obtain medical aid immediately.

Ingestion: Do NOT induce vomiting without medical advice. Rinse mouth with water. Never administer anything by mouth to an unconscious person. Obtain medical aid immediately.

Most important symptoms and effects, both acute and delayed: No further information available. Please see sections 2 and 11.

Indication of any immediate medical attention and special treatment needed: No further information available.

5. Fire Fighting Measures

Suitable extinguishing media: Use water spray, dry chemical, carbon dioxide, or chemical foam. **Specific hazards arising from the chemical:** Hydrogen iodide, Sodium oxides.

Advice for firefighters: As in any fire, wear a NIOSH-approved or equivalent, pressure-demand, self-contained breathing apparatus and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Wear protective equipment and keep unprotected personnel away. Ensure adequate ventilation. Remove all sources of

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ignition. Prevent further leak or spill if safe to do so. For personal protective equipment, please refer to section 8.

Environmental precautions: Do not let product enter drains, other waterways, or soil.

Methods and materials for containment and cleaning up: Prevent further leak or spill if safe to do so. Vacuum, sweep up, or absorb with inert material and place into a suitable disposal container. Consult local regulations for disposal. See section 13 for further disposal information.

7. Handling and Storage

Precautions for safe handling: Avoid contact with skin, eyes, and personal clothing. Wash hands thoroughly after handling. Avoid breathing fumes. Use only with adequate ventilation. Wear suitable protective clothing, gloves, and eye/face protection. Keep away from sources of ignition. Minimize dust generation and accumulation. Keep container tightly closed. Open and handle container with care. Do not eat, drink, or smoke while handling.

Conditions for safe storage, including any incompatibilities: Store in a tightly-closed container when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from sources of ignition. ,Store long-term in a cool, dry place.

8. Exposure Controls/Personal Protection

Exposure limits:

OSHA PEL: Not available. NIOSH REL: Not available. ACGIH TLV: Not available.

Appropriate engineering controls: Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product. Facilities storing or utilizing this material should be equipped with an eyewash fountain. Use adequate general and local exhaust ventilation to keep airborne concentrations low.

Personal protection

Eyes: Based on an evaluation of the eye or face hazards present, wear chemical splash-resistant

safety glasses or goggles with side protection. A face shield may be appropriate in some workplaces. Use eyewear tested and approved under appropriate government standards

such as OSHA 29 CFR 1910.133 or EU EN166.

Hands: Wear gloves selected based on an evaluation of the possible hazards to hands and skin,

the duration of use, the physical conditions of the workplace, and the chemical resistance

and physical properties of the glove material.

Skin and body: Protective clothing must be selected based on the hazards present in the workplace, the

physical environment, the duration of exposure, and other factors. No fabric can provide protection against all potential hazards; therefore it is important to select the appropriate protective clothing for each specific hazard. At the minimum, wear a laboratory coat and

close-toed footwear.

Respiratory: Respirators are not a substitute for accepted engineering control measures such as

enclosure or confinement of the operation, general and local ventilation, and substitution of less toxic materials. When respiratory personal protective equipment is appropriate based on an assessment of respiratory hazards in the workplace, use a NIOSH- or

CEN-certified respirator.

9. Physical and Chemical Properties

Physical State: Solid
Molecular Formula: INaO4
Molecular Weight: 213.89

Odor: Not available. PH: Not available.

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Boiling Point Range: Not available.

Freezing/Melting Point: 300°C

Flash Point:

Evaporation Rate:

Flammability(solid,gas):

Explosive limits:

Not available.

Please see section 2.

Not available.

Vapor Pressure:
Vapor Density:
Not available.
Not available.

Solubility: Soluble in water and acids

Relative Density: 3.86

Refractive Index:
Volatility:
Not available.
Auto-ignition Temperature:
Not available.
Not available.
Partition Coefficient:
Not available.
Not available.
Not available.

10. Stability and Reactivity

Reactivity: Not available.

Chemical stability: Stable under recommended temperatures and pressures.

Possibility of hazardous reactions: Not available. Conditions to avoid: Dust generation.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: Hydrogen iodide, Sodium oxides.

11. Toxicological Information

RTECS# Not available. Acute toxicity: Not available.

Routes of exposure: Inhalation, eye contact, skin contact, ingestion.

Symptoms related to the physical, chemical and

Skin contact may result in inflammation

toxicological characteristics: characterized by itching, scaling, reddening,

blistering, pain or dryness. Eye contact may result in redness, pain or severe eye damage. Inhalation may cause irritation of the lungs and respiratory system. Overexposure may result in serious illness

or death.

Carcinogenicity

IARC: Not classified.
NTP: Not listed.
OSHA: Not Available..

Acute toxic effects: Inflammation of the eye is characterized by redness, watering, and itching. Skin

inflammation is characterized by itching, scaling, reddening, or, occasionally,

blistering.

12. Ecological Information

Ecotoxicity:

Persistence and degradability:

Bioaccumulative potential:

Mobility in soil:

Other adverse effects:

Not available.

Not available.

Not available.

13. Disposal Considerations

Disposal of waste:

Disposal of packaging:

Not listed

Not listed

14. Transportation Information

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DOT (United States)

UN number: UN3085

Proper shipping name: Oxidizing solid, n.o.s. (Sodium metaperiodate, ACS, 99.8-100.3%)

Transport hazard class: 5.1 (8);Oxidizer,Corrosive

Packing group:

IATA

UN Number: UN3085

Proper shipping name: Oxidizing solid, corrosive, n.o.s. (Sodium metaperiodate, ACS)

Transport hazard class: 5.1 (8);Oxidizer,Corrosive

Packing group:

15. Regulatory Information

TSCA (United States)

Not Available.

California Proposition 65: Not Available..

NFPA Rating: Health: Not available.

Flammability: Not available. Instability: Not available.

16. Additional Information

Version: 3

Revision Date: 06/10/2025 Printed Date: 06/10/2025

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