SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier
- **Product Name:** Sodium Periodate
- **Product Codes(s):** Sodium Periodate
- **Synonyms:** Sodium metaperiodate; Periodic Acid (HIO4), sodium salt
- **REACH Registration Number:** No data available

1.2 Relevant identified uses of the substance or mixture and uses advised against
- **General Use:** For use in industrial and formulation applications
- **Uses advised against:** No uses advised against

1.3 Details of the supplier and of the safety data sheet
- **Manufacturer/Distributor:** Allan Chemical Corporation
- **Address:** 235 Margaret King Avenue, Ringwood, NJ 07456 USA
- **Emergency telephone number:**
  - Chem Tel: +1-813-248-0585
  - +1-800-255-3924

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture
- **Product definition:** Substance
- **Classification (Regulation (EC) No 1272/2008):**
  - Oxidizing solid - Category 2 [H272]
  - Acute toxicity, Oral - Category 3 [H301]
  - Skin irritation - Category 2 [H315]
  - Eye irritation - Category 2A [H319]
  - Specific target organ toxicity, single exposure - Category 3; STOT SE 3 [H335]

2.2 Label Elements
- **Labeling (Regulation (EC) No 1272/2008):**
  - **Hazard Symbols:**
    - GHS03
    - GHS06
  - **Signal Word:** Danger
  - **Hazard Statement(s):**
    - H272 - May intensify fire; oxidizer
    - H301 - Toxic if swallowed
    - H315 - Causes skin irritation
    - H319 - Causes serious eye irritation
    - H335 - May cause respiratory irritation
  - **Precautionary Statements:**
    - **[Prevention]**
      - P210 - Keep away from heat and hot surfaces.
      - P220 - Keep away from combustible and incompatible materials (see Section 10.5).
      - P221 - Take precaution to avoid mixing with combustibles.
      - P261 - Avoid breathing dust, fumes and vapors.
      - P264 - Wash hands and other skin areas exposed to material thoroughly after handling.
      - P270 - Do not eat, drink or smoke when using this product.
      - P271 - Use only outdoors or in a well-ventilated area.
      - P280 - Wear protective gloves, protective clothing, eye protection and face protection.
    - **[Response]**
      - P370 + P378 - In case of fire: Use large amounts of water as extinguishing media. Use water only.
      - P301 + P330 + P310 - IF SWALLOWED: Rinse mouth. Immediately call a POISON CENTER or doctor.
      - P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
      - P362 - Take off contaminated clothing and wash before reuse.
      - P332 + P313 - If skin irritation occurs: Get medical attention.
      - P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if the victim feels unwell.
      - P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
      - P337 + P313 - If eye irritation persists: Get medical attention.
      - P321 - Specific treatment: Call a POISON CENTER or doctor; refer to Section 4 of this SDS
SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

<table>
<thead>
<tr>
<th>% by Weight</th>
<th>Ingredient</th>
<th>CAS Number</th>
<th>EC Number</th>
<th>Index Number</th>
<th>EC Classification</th>
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<tr>
<td>98 - 100</td>
<td>Sodium Periodate</td>
<td>7790-28-5</td>
<td>232-197-6</td>
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</tr>
</tbody>
</table>

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to the health or the environment and hence require reporting in this section.

3.2 Mixtures

Chemical characterization (preparation)
Not applicable

SECTION 4 - FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: If product dust causes respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. Loosen tight fitting clothing such as a collar, tie, belt or waistband. Seek medical attention if cough or other symptoms appear or persist.

Eyes: Immediately flush eyes with large amounts of water for 15 minutes, occasionally lifting the upper and lower lids. Remove contact lenses, if present and easy to do, after the first 2 minutes and continue rinsing. Seek immediate medical attention, preferably from an ophthalmologist.

Skin: Flush skin with large amounts of water while removing contaminated clothing and continue rinsing for at least 15 minutes. Wash contaminated clothing thoroughly before reuse. Discard contaminated shoes. If irritation occurs or persists, seek medical attention.

Ingestion: Rinse mouth with water if victim is conscious. Remove dentures, if any. Give 2 - 4 cupfuls of milk or water to drink if victim is conscious, alert and able to swallow. Immediately contact a POISON CENTER or doctor for advice. Do not induce vomiting unless directed to do so by medical personnel. To prevent aspiration of product, lay victim on side with head lower than the waist. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Potential health symptoms and effects

Eyes: Causes severe eye irritation. Symptoms may include redness, swelling, pain and tearing. Particulates may cause corneal abrasion resulting in corneal injury.

Skin: May cause skin irritation. Symptoms include redness, itching, swelling and pain. May be harmful if absorbed through the skin.

Inhalation: May cause irritation of the respiratory tract with coughing and shortness of breath. May be harmful if inhaled. Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis may incur further disability if excessive concentrations of particulates are inhaled.

Ingestion: Toxic if swallowed. Symptoms include nausea, vomiting, diarrhea and abdominal pain. Corrosive and severe injury to the GI tract have been reported. Acute renal failure, central nervous system depression, metabolic acidosis and rhabdomyolysis have been reported after large overdoses. Acute vision loss may occur after large ingestions. Vision may improve over several months, but usually does not return to normal.

Chronic: Repeated ingestions may cause kidney dysfunction or failure and blood conditions such as hemolysis. The central nervous system may be affected. Prolonged and repeated skin contact may cause dermatitis.

4.3 Indication of any immediate medical attention and special treatment needed

Advice to Doctor and Hospital Personnel:
Treat symptomatically and supportively.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Extinguishable media

Suitable methods of extinction: Use water only! Flood with large amounts of water.

Unsuitable methods of extinction: Do NOT use dry chemical, carbon dioxide or halocarbon extinguishing media.

5.2 Special hazards arising from the substance or mixture

Strong oxidizer! Approach fire from upwind to avoid hazardous vapors and toxic decomposition products. Use flooding quantities of water as fog or spray. Product does not burn; however, this substance is a strong oxidizer and its heat of reaction with reducing agents or combustible materials may cause ignition. Contact with other materials may cause fire. Releases oxygen upon decomposition, which enhances combustion.

Closed containers may explode due to the buildup of pressure when exposed to extreme heat. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Explosion hazards: Contact with oxidizable materials may cause extremely violent combustion and explosion.

5.3 Advice for firefighters

Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. Water contaminated by this material must be contained from being discharged to any waterway, sewer or drain to prevent environmental contamination.
SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Avoid dust generation or accumulation. Do not inhale dust. Ventilate the area. Evacuate non-essential personnel. Wear appropriate protective clothing designated in Section 8. Remove all sources of ignition. Keep combustibles (wood, paper, oils, etc.) away from spilled materials.

6.2 Environmental precautions
Avoid dispersal of spilled material or runoff and prevent contact with soil and entry into drains, sewers or waterways.

6.3 Methods and materials for containment and cleaning up
Clean up spills immediately. Cover drains and contain spill. Minimize dust generation during clean-up. Carefully sweep, vacuum (with HEPA filter) or shovel up material and place into an approved container for proper disposal. DO NOT use combustible materials such as paper towels or straw brooms to clean up spills. Observe possible material restrictions (Sections 7.2 and 10.5). Do NOT allow material or runoff from rinsing contaminated areas to enter floor drains or storm drains and ditches which lead to waterways. Dispose of waste via a licensed waste disposal contractor.

Releases should be reported, if required, to appropriate agencies. Notify Local Emergency Planning Committee and State Emergency Response Commission for release greater than or equal to RQ (U.S. Section 304). If release occurs in the U.S. and is reportable under CERCLA Section 103, notify the National Response Center at (800) 424-8802 (USA) or (202) 426-2675 (USA).

6.4 Reference to other sections
See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for safe handling
Wear all appropriate personal protective equipment specified in Section 8. Minimize dust generation. Do not get in eyes or on skin or clothing. Do not breathe dust. If normal use of material presents a respiratory hazard, use only adequate ventilation or wear an appropriate respirator. In the laboratory use only under a chemical fume hood. Discard contaminated shoes.

Advice on protection against fire and explosion
Contact with oxidizable materials may cause extremely violent combustion and explosion.

7.2 Conditions for safe storage, including any incompatibilities
Store in a dry, cool and well-ventilated area, away from combustible and incompatible materials, food and drink. Keep away from reducing agents. Keep away from heat and ignition sources. Avoid storage on wood floors.

Transfer only to approved containers having correct labeling. Protect containers against physical damage. Keep containers tightly closed. Containers that have been opened must be carefully resealed and kept upright to prevent spillage. Remove and dispose of any spilled material; do not return it to original containers. Do not reuse empty containers as they may retain product residues (solids, dust). Use appropriate containment to avoid environmental contamination. Ventilate closed areas. Avoid skin contact. Do not take internally. Keep locked up and out of reach of children.

7.3 Specific end uses
Apart from the uses mentioned in Section 1.2, no other specific uses are stipulated.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls
Engineering measures: Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Use adequate ventilation. Local exhaust is preferable. Refer to Section 7.1 for additional data.

Individual protection measures: Wear protective clothing to prevent repeated or prolonged contact with product. Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the representative supplier.

Hygiene measures: Facilities storing or using this material should be equipped with an eyewash station and safety shower. Change contaminated clothing. Preventive skin protection is recommended. Wash hands thoroughly after use, before eating, drinking or using the lavatory.

Eye/face protection: Wear protective goggles or safety glasses with non-perforated side shields and a face shield. Refer to 29 CFR 1910.133, ANSI Z87.4 or Standard EN 166.

Hand protection: Wear butyl rubber or neoprene gloves, or those recommended by glove supplier for protection against materials in Section 3. Gloves should be impermeable to chemicals and oil. Breakthrough time of gloves must be greater than the intended use period.

Other protective equipment: Protective clothing. Protective boots, if the situation requires.

Respiratory protection: Wear an approved filter type dust respirator when handling this product. Where risk assessment shows air-purifying respirators are appropriate use a full-faced respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Follow OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties
Appearance: White crystalline to powdered solid
Odor: Odorless
Odor Threshold: No data available
Molecular Weight 213.89
Chemical Formula INaO4
pH 3.5 - 5.5 (107 g/l aqueous solution @ 25 °C)
Freezing/Melting Point, Range 398 °C (748.4 °F)
Initial Boiling Point 300 °C (572 °F)
Evaporation Rate Not applicable
Flammability (solid, gas) No data available
Flash Point Not applicable
Autoignition Temperature Not applicable
Decomposition Temperature 300 °C (572 °F)
Lower Explosive Limit (LEL) Not applicable
Upper Explosive Limit (UEL) Not applicable
Vapor Pressure Not determined
Vapor Density Not determined
Specific Gravity 3.86
Viscosity No data available
Solubility in Water 80 g/l @ 20 °C
Partition Coefficient: n-octanol/water Not applicable
Volatile by Volume @ 70 °F 0%

9.2 Other data
No data available

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity
No special reactivity has been reported.

10.2 Chemical stability
This product is stable under recommended storage conditions, handling and use. Hygroscopic material (absorbs moisture from the air).

10.3 Possibility of hazardous reactions
May react violently or form shock-sensitive mixtures with some organic compounds or strong reducing agents. Hazardous polymerization does not occur.

10.4 Conditions to avoid
Contact with incompatible and combustible materials. Dust generation. Exposure to light. Avoid contact with air.

10.5 Incompatible materials
Strong reducing agents, powdered metals, finely divided magnesium and aluminum metal, hydrides, ammonium perchlorate, oxidizable materials

10.6 Hazardous decomposition products
Thermal decomposition products include hydrogen iodide, sodium oxide and iodine.

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
Acute Oral Toxicity
LD50, rat: 264 mg/kg
Acute inhalation toxicity No data available
Acute dermal toxicity No data available
Skin irritation/corrosion Causes skin irritation
Eye irritation/corrosion Causes serious eye irritation
Sensitization No data available
Genotoxicity in vitro/ in vivo No data available
Mutagenicity No data available
Specific organ toxicity - single exposure May be irritating to the respiratory system
Specific organ toxicity - repeated exposure No data available
Aspiration hazard No data available

11.2 Further information
This material is not listed as a carcinogen by IARC, ACGIH, NTP or OSHA. No data is available regarding the mutagenicity or teratogenicity to this material, nor is there available data that indicates that it causes adverse developmental or fertility effects in humans.
Handle in accordance with good industrial hygiene and safety practice.
SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
Inorganic substances are not biodegradable. Methods for the determination of biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulation potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available.

12.6 Other adverse effects
Additional ecological information
Do not allow material to run into surface waters, wastewater or soil.
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Product
Methods of disposal: The generation of waste should be avoided or minimized whenever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
Hazardous waste: The classification of this product may meet the criteria for a hazardous waste.

SECTION 14 - TRANSPORT INFORMATION

Note: Transportation information provided is for reference only. Customer is urged to consult 49 CFR 100 - 177, IMDG, IATA, EC, United Nations TDG and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

US DOT (Domestic Ground Transportation)
Proper Shipping Name: Oxidizing solid, N.O.S. (Sodium Periodate)
Hazard Class: 5.1
UN/NA: UN1479
Packing Group: II
NAERG: Guide #140
Packaging Authorization: Non-Bulk: 49 CFR 173.211; Bulk: 173.242
Packaging Exceptions: None

IMO/MDG (Water Transportation)
Proper Shipping Name: Oxidizing solid, N.O.S. (Sodium Periodate)
Hazard Class: 5.1
UN/NA: UN1479
Packing Group: II
Marine Pollutant: No
EMS Number: F-A, S-Q

ICAO/IATA (Air Transportation)
Proper Shipping Name: Oxidizing solid, N.O.S. (Sodium Periodate)
Hazard Class: 5.1
UN/NA: UN1479
Packing Group: II
Quantity Limitations: 49 CFR 173.27 and 175.75 - Cargo Aircraft Only: 15 kg; Passenger Aircraft: 1 kg

RID/ADR (Rail Transportation)
Proper Shipping Name: Oxidizing solid, N.O.S. (Sodium Periodate)
Hazard Class: 5.1
UN/NA: UN1479
Packing Group: II

SECTION 15 - REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for substance or mixture
U. S. Federal Regulations
OSHA Hazard Communication Standard: This material is classified as hazardous in accordance with OSHA 29 CRF 1910.1200.
EPA Federal Insecticide, Fungicide and Rodenticide Act: This product is not a registered Pesticide under the FIFRA, 40 CFR Part 150.

TSCA Status: All components of this product are listed on the Toxic Substance Control Act (TSCA) Inventory. This material is not subject to TSCA 12(b) Export Notification.

Superfund Amendments and Reauthorization Act (SARA)

SARA 313 Information: None of the chemicals in this product are subject to reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986.

SARA Section 311/312 Hazard Categories: Acute Health Hazard, Chronic Health Hazard

SARA 302/304 Extremely Hazardous Substance: None of the chemicals in this product are subject to reporting requirements of these sections of Title III of SARA.

SARA 302/304 Emergency Planning & Notification: None of the chemicals in this product are subject to reporting requirements of these sections of Title III of SARA.

Comprehensive Response Compensation and Liability Act (CERCLA): This product contains no CERCLA reportable substances.

Clean Air Act (CAA)

This product does not contain any chemicals that are listed as Hazardous Air Pollutants (HAPs) designated in CAA Section 112 (b).

This product does not contain any Class 1 Ozone depletors.

This product does not contain any Class 2 Ozone depletors.

Clean Water Act (CWA)

None of the chemicals in this product are listed as Hazardous 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.

U.S. State Regulations

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986:

This product contains no chemical(s) known to the State of California to cause cancer or other reproductive harm.

Other U.S. State Inventories:

This material is not listed on the following State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants lists.

Canada

WHMIS Hazard Symbol and Classification: None allocated

Canadian Controlled Products Regulations (CPR): This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations, and the MSDS contains all the information required by the Controlled Products Regulations.

Canadian Ingredient Disclosure List (IDL): None of the substances in this product are listed on the IDL.

Canadian National Pollutant Release Inventory (NPRI): None of the substances in this product are listed on the NPRI.

European Economic Community

Labeling (67/548/EEC to 1999/45/EC) None allocated

WGK, Germany (Water danger/protection): 1

Global Chemical Inventory Lists

<table>
<thead>
<tr>
<th>Country</th>
<th>Inventory Name</th>
<th>Inventory Listing*</th>
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<tr>
<td>Canada</td>
<td>Domestic Substance List (DSL).</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substance List (NDSL)</td>
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<tr>
<td>Europe</td>
<td>Inventory of New and Existing Chemicals (EINECS)</td>
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</tr>
<tr>
<td>United States</td>
<td>Toxic Substance Control Act (TSCA)</td>
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<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
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<tr>
<td>New Zealand</td>
<td>New Zealand Inventory of Chemicals (NZIoC)</td>
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<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
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<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
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<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
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<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
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</tr>
</tbody>
</table>

*“Yes” indicates that all components of this product are in compliance with the inventory requirements administered by the governing country.

*“No” indicates that one or more components of this product are not on the inventory and are not exempt from listing.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16 - OTHER INFORMATION

Hazardous Material Information System (HMIS)

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Physical Hazard</th>
<th>Personal Protection</th>
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</thead>
<tbody>
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HMIS & NFPA Hazard Rating Legend

* = Chronic Health Hazard  2 = MODERATE
0 = INSIGNIFICANT 3 = HIGH
1 = SLIGHT 4 = EXTREME

National Fire Protection Association (NFPA)

Flammability

Health 0

Instability

Special

Safety Glasses  Gloves  Protective Apron  Dust Respirator
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