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SODIUM IODATE

1. Product Identification
Synonyms: Iodic acid, sodium salt
CAS No.: 7681-55-2
Molecular Weight: 197.89
Chemical Formula: $NaIO_3$
Product Codes: 39106

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
Sodium Iodate	7681-55-2	90 - 100%

3. Hazards Identification
Potential Health Effects

Inhalation: Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath.
Ingestion: Toxic! Probable lethal dose for humans is 50-500 mg/kg. May cause gastrointestinal upset with symptoms of abdominal pain, vomiting, and diarrhea. Animal experiments suggest a potential for kidney and blood cell damage, similar to that of the bromates and chlorates.
Skin Contact: Possible irritation or reddening of moist skin on prolonged contact.
Eye Contact: No adverse effects expected but dust may cause mechanical irritation.
Chronic Exposure: May affect spleen, kidneys or liver after prolonged exposure.
Aggravation of Pre-existing Conditions: Persons with impaired kidney function may be more susceptible to the effects of the substance.

4. First Aid Measures
Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion: Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.
Skin Contact: Remove any contaminated clothing. Wash skin with soap or mild detergent and water for at least 15 minutes. Get medical attention if irritation develops or persists.
Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire Fighting Measures
Fire: Not combustible, but substance is a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition.
Explosion: May explode when exposed to mechanical shock or friction or can cause explosions with combustible or flammable materials or powdered metals. Sensitive to mechanical impact.
Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire.
Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Water spray may be used to keep fire exposed containers cool.

6. Accidental Release Measures
Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container.

7. Handling and Storage
Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage and moisture. Isolate from any source of heat or ignition. Avoid storage on wood floors. Separate from incompatibles, combustibles, organic or other readily oxidizable materials. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection
Airborne Exposure Limits: None established.
Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Personal Respirators : For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn.
Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
Eye Protection: Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties
Appearance: White powder.
Odor: Odorless.
Solubility: 9 gm in 100 gm of water.
Density: 4.28
pH: Aqueous solution is neutral.
% Volatiles by volume @ 21C (70F): 0
Boiling Point: Not applicable.
Melting Point: No information found.
Vapor Density (Air=1): No information found.
Vapor Pressure (mm Hg): No information found.
Evaporation Rate (BuAc=1): No information found.

10. Stability and Reactivity
Stability: Stable under ordinary conditions of use and storage. Strong oxidizing characteristics appear when mixed with acid solutions.
Hazardous Decomposition Products: Burning may produce toxic iodine vapors.
Hazardous Polymerization: Will not occur.
Incompatibilities: Reacts violently with combustible and reducing materials; aluminum, organic compounds, carbon, hydrogen peroxide, sulfides.
Conditions to Avoid: Heat, shock, friction, incompatibles.

11. Toxicological Information
No LD50/LC50 information found relating to normal routes of occupational exposure.

--------\Cancer Lists\----------

	---NTP Carcinogen---		
Ingredient	Known	Anticipated	IARC Category
Sodium Iodate (7681-55-2)	No	No	None

12. Ecological Information
Environmental Fate: No information found.
Environmental Toxicity: No information found.

13. Disposal Considerations
Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information
Land

Proper Shipping Name: Sodium Iodate
Hazard Class: 5.1
UN/NA: UN1479
Packing Group: II
Information reported for product/size: 125G

International (Water, I.M.O.)

Proper Shipping Name: Sodium Iodate
Hazard Class: 5.1
UN/NA: UN1479
Packing Group: II
Information reported for product/size: 125G

15. Regulatory Information
SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No
Reactivity: Yes (Pure / Solid)

16. Other Information
Product Use:
Laboratory Reagent.