

Safety Data Sheet

Sodium Iodate, Solid

Section 1 - Chemical Product and Company Identification

SDS Name: Sodium Iodate, Solid

Catalog Numbers: SO-958

Company Identification: Transene Company, Inc., DBA ROWLEY BIOCHEMICAL, Inc.
10 ELECTRONICS AVENUE
DANVERS, MA 01923

For information, call: 978-739-4883

Emergency Number: 800-424-9300

For CHEMTREC assistance, call: 800-424-9300

Section 2 - Hazards Identification

GHS Classifications

H272-Oxidizing solids: 2

H302-Acute toxicity, oral: 4

H317-Sensitisation, skin: 1

H334-Sensitisation, respiratory: 1

Consists of unknown acute dermal toxicity.

Consists of unknown acute inhalation toxicity.

Pictograms or Hazard Symbols and Hazard Statement(s):



Signal Word: Danger

Hazard Statements:

H272-May intensify fire; oxidizer

H302-Harmful if swallowed

H317-May cause an allergic skin reaction

H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary Statements:

P210-Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

P220-Keep away from clothing and other combustible materials.

P261-Avoid breathing dust/fume/gas/mist/vapours/spray.

P264-Wash thoroughly after handling.

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

P272-Contaminated work clothing should not be allowed out of the workplace.

P280-Wear protective gloves/protective clothing/eye protection/face protection.

P284-In case of inadequate ventilation wear respiratory protection.

P301+P312-If swallowed: Call a Poison Center/doctor if you feel unwell.

P302+P352-If on skin: Wash with plenty of soap and water.

P304+P340-If inhaled: Remove person to fresh air and keep comfortable for breathing.

P330-Rinse mouth.

P333+P313-If skin irritation or rash occurs: Get medical advice/attention.

P342+P311-If experiencing respiratory symptoms: Call a Poison Center/doctor.

P362+P364-Take off contaminated clothing and wash it before reuse.

P370+P378-In case of fire: Use dry chemical, carbon dioxide, dry sand, water spray, or alcohol-resistant foam to extinguish.

P501-Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
7681-55-2	Sodium Iodate	≥99

Section 4 - First Aid Measures

Eye Exposure: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Get medical attention.

Dermal Exposure: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention.

Oral Exposure: If swallowed, get immediate medical advice. Rinse mouth with water. After rinsing mouth with water, drink small quantities of water (stop if the exposed person feels sick as vomiting may be dangerous).

Inhalation Exposure: If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use dry chemical, carbon dioxide, dry sand, water spray, or alcohol-resistant foam.

Hazardous Combustion Products: Hydrogen iodide, sodium oxides, irritating and toxic fumes and gases.

Flash Point: Not applicable

Auto ignition Temperature: Not available

Explosion Limits, Lower: Not available

Upper: Not available

NFPA Rating: (estimated) Health: 2; Flammability: 0; Instability: 2 OXIDIZING SOLID

Note: Oxidizer: Contact with combustible/organic material may cause fire.

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s):

Wear personal protective equipment. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Ensure adequate ventilation. Avoid dust formation.

Methods for Cleaning up: Absorb with sand, earth, or vermiculite. Carefully sweep up and containerize for proper disposal. Avoid generating dusty conditions. Provide ventilation. Do not release to the environment. Do not release to drains.

Section 7 - Handling and Storage

Use care when handling. Wear personal protective equipment. Wash thoroughly after handling. Ensure adequate ventilation. Avoid contact with skin, eyes, and clothing. Avoid ingestion and inhalation. Minimize dust generation and accumulation. Keep in a tightly closed container. Store in a cool, dry, and well-ventilated area. Air, light, and moisture sensitive. Keep away from combustible/organic material. Keep away from incompatible materials.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Exposure Limits:

Chemical Name	ACGIH - TLV	NIOSH - IDLH	OSHA - Final PELs
Sodium Iodate CAS#7681-55-2	Not listed	Not listed	Not listed

Section 9 - Physical and Chemical Properties

Physical State: Powder Solid

Appearance: White

Odor: Slight

Vapor Pressure: Not available

Odor Threshold: Not available

Vapor Density: Not available

pH: 5.5-7.0 at 19.8 g/L at 25°C (77°F)

Relative Density: Not available

Melting point/freezing point: 560°C (1040°F)

Solubility: Soluble in water

Boiling Point: Not available

Flash Point: Not applicable

Evaporation Rate: Not available

Flammability (solid, gas): Contact with combustibles may cause fire.

Partition coefficient: n-octanol/water: Not available

Autoignition Temperature: Not available

Decomposition Temperature: 560°C (1040°F)

Viscosity: Not applicable

Specific Gravity/Density: 4.28 g/cm³ at 20°C (68°F)

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal storage and handling conditions. Oxidizer: Risk of fire in contact with combustible/organic material.

Conditions to Avoid: Incompatible materials, ignition sources, and excess heat. Exposure to air, light, and moisture. Avoid dust formation.

Incompatibilities with Other Materials: Strong oxidizing agents, reducing agents, metals, organic materials, sulfides, peroxides, finely powdered metals, and combustible material.

Hazardous Decomposition Products: Hydrogen iodide, sodium oxides, irritating and toxic fumes and gases.

Section 11 - Toxicological Information

CAS#7681-55-2 Sodium Iodate: RTECS#: NN1400000

LD50 Oral: 505 mg/kg (mouse)

LD50 Dermal: Not available

LD50 Inhalation: Not available

Carcinogenicity: Sodium Iodate CAS#7681-55-2 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop. 65.

Information on the likely routes of exposure: Routes of entry anticipated: oral, dermal, inhalation, and eye.

Epidemiology: Not available.

Teratogenicity: Not available.

Reproductive Effects: Not available.

Developmental Effects: Not available.

Neurotoxicity: Not available.

Mutagenicity: Not available.

Specific Target Organ Toxicity, Single Exposure: Not available.

Specific Target Organ Toxicity, Repeated Exposure: Not available.

Symptoms associated with exposure: May cause an allergic skin reaction. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and/or feet, dizziness, lightheadedness, chest pain, muscle pain, and flushing. May cause nausea, vomiting, diarrhea, and stomach irregularities. If inhaled, may cause allergy/asthma symptoms or breathing problems.

The toxicological properties of this material have not been thoroughly investigated.

Section 12 - Ecological Information

Ecotoxicity: Do not release to the environment. Do not release to drains.

CAS#7681-55-2 Sodium Iodate:

LC50, freshwater fish: 220 mg/L 96h (oncorhynchus mykiss)(rainbow trout)

Persistence and degradability: Persistence is unlikely based on available information.

Bio-accumulative potential: Not available.

Mobility: Will likely be mobile in the environment due to its water solubility.

Section 13 - Disposal Considerations

DISPOSAL: Dispose of in accordance with all federal, state, and local regulations.

Section 14 - Transport Information

DOT

Proper Shipping Name: Oxidizing Solid, N.O.S. (Sodium Iodate)

UN 1479

PG II

Hazard Class 5.1

Section 15 - Regulatory Information

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all the information required by the CPR.

Section 16 - Additional Information

SDS Creation Date: 12-15-22

Revision #1: 6-2-25

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