

Safety Data Sheet

Potassium Iodide, Free Flowing

Section 1 - Chemical Product and Company Identification

SDS Name: Potassium Iodide, Free Flowing

Catalog Numbers: SO-663

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

H303-Acute toxicity, oral: 5

H372-Specific target organ toxicity, repeated exposure: 1

Consists of ingredients of unknown acute inhalation toxicity.

Pictograms or Hazard symbols and Hazard statement(s):



Signal Word: Danger

Hazard Statements:

H303-May be harmful if swallowed

H372-Causes damage to organs through prolonged or repeated exposure (target organs: thyroid)

Precautionary Statements:

P260-Do not breathe dust/fume/gas/mist/vapours/spray.

P264-Wash thoroughly after handling.

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

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

P314-Get medical advice/attention if you feel unwell.

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

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
7681-11-0	Potassium Iodide	≥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. Seek medical advice.

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

Oral Exposure: If swallowed, seek medical advice. Rinse mouth with water and 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, potassium oxides, hazardous fumes and gases.

Flash Point: Not available

Autoignition Temperature: Not available

Explosion Limits, Lower: Not available

Upper: Not available

NFPA Rating: (estimated) Health: 1; Flammability: 0; Instability: 1

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 dust generation and accumulation. 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. Minimize dust generation and accumulation. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Store in a cool, dry, and well-ventilated area. Keep container tightly closed. Light sensitive. Avoid exposure to moist air or water. 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
Potassium Iodide CAS#7681-11-0	0.01 ppm TWA	Not listed	Not listed

Section 9 - Physical and Chemical Properties

Physical State: Solid

Appearance: White

Odor: Odorless

Vapor Pressure: 1 mmHg at 745°C (1373°F)

Odor Threshold: Not applicable

Vapor Density: Not applicable

pH: ca. 6.9 at 50 g/L at 20°C (68°F)

Relative Density: Not available

Melting point/freezing point: 680°C (1256°F)

Solubility: Soluble in water

Boiling Point: 1330°C (2426°F) at 760 mmHg

Flash Point: Not available

Evaporation Rate: Not applicable

Flammability (solid, gas): This product is not flammable.

Partition coefficient: n-octanol/water: Not applicable

Autoignition Temperature: Not available

Decomposition Temperature: Not available

Viscosity: Not available

Specific Gravity/Density: 3.13 g/cm³ at 20°C (68°F)

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures. Air and moisture sensitive. Light sensitive.

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

Incompatibilities with Other Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Hydrogen iodide, potassium oxides, hazardous fumes and gases.

Section 11 - Toxicological Information

CAS#7681-11-0 Potassium Iodide: RTECS#: TT2975000

LD50 Oral: 2779 mg/kg (rat)

LD50 Dermal: >2000 mg/kg (rat)

LC50 Inhalation: Not available

Carcinogenicity: Potassium Iodide CAS#7681-11-0 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: Exposure to excessive amounts of iodine during pregnancy may produce fetal hypothyroidism. Iodides are readily diffused across the placenta. Iodine-containing drugs have been associated with fetal goiter.

Developmental Effects: Not available.

Neurotoxicity: Not available.

Mutagenicity: Not available.

Specific Target Organ Toxicity, Single Exposure: Not available.

Specific Target Organ Toxicity, Repeated Exposure: Thyroid.

Symptoms associated with exposure: Prolonged exposure to iodides may produce iodism in sensitive individuals. Symptoms may include skin rash, runny nose, headache, and irritation of the mucous membrane. May cause pulmonary edema.

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#7681-11-0 Potassium Iodide:

LC50, freshwater fish: 3780 mg/L 96h static (oncorhynchus mykiss)(rainbow trout)

EC50, water flea: 7.5 mg/L 48h static (daphnia magna)

Persistence and degradability: Not available.

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

Non-Regulated

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: 6-27-23

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