

MSDS	Material Safety Data Sheet
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Sodium Iodide

1. Product Identification

Synonyms: Sodium iodine; Sodium monoiodide

CAS No.: 7681-82-5

Molecular Weight: 149.89

Chemical Formula: NaI

2. Composition/Information on Ingredients

Ingredient CAS No Percent Hazardous

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Sodium Iodide	7681-82-5	90 - 100 %	Y e s

3. Hazards Identification

Emergency Overview

WARNING! HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. CHRONIC EXPOSURE MAY PRODUCE IODISM

SAF-T-DATA(tm) Ratings (Provided here for your convenience)

Health Rating: 2 - Moderate (Life)

Flammability Rating: 0 - None

Reactivity Rating: 1 - Slight

Contact Rating: 2 - Moderate

Lab Protective Equip: GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES

Storage Color Code: Green (General Storage)

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:

Wipe off excess material from skin then immediately flush skin with plenty of water for at least 15 minutes.

Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse.

Thoroughly clean

shoes before reuse.

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 considered to be a fire hazard.

Explosion:

Not considered to be an explosion hazard.

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.

6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8.

Spills:

Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust. Small amounts of residue may be flushed to sewer with plenty of water.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage.

Isolate from incompatible substances. Protect from light. 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:

-ACGIH (TWA) for Iodides:

0.01 ppm for inhalable fraction and vapor.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. 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. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

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. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator.

WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance:

White granular or colorless crystals

Odor:

Odorless.

Solubility:

184 g/100 ml water @ 25C

Specific Gravity:

3.67

pH:

8 - 9.5

% Volatiles by volume @ 21C (70F):

0

Boiling Point:

1300C (2372F)

Melting Point:

651C (1204F)

Vapor Density (Air=1):

No information found.

Vapor Pressure (mm Hg):

1 @ 767C (1413F)

Evaporation Rate (BuAc=1):

No information found.

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage. Absorbs up to 5% moisture on exposure to air and becomes

brown due to liberation of iodine.

Hazardous Decomposition Products:

When heated to decomposition it emits toxic fumes of iodine and sodium oxide.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Alkali metals, chloral hydrate, acids tartaric acid, potassium chlorate, metallic salts, iodine. Reacts violently with bromide trifluoride, perchloric acid, and oxidants.

Conditions to Avoid:

Light and incompatibles.

11. Toxicological Information

Toxicological Data:

Oral rat LD50: 4340 mg/kg. Irritation data: skin rabbit, standard Draize: 500 mg/24H, moderate; eye rabbit, standard Draize: 100 mg/24H, moderate. Investigated as a reproductive effector.

Reproductive Toxicity:

The occasional use of iodides for asthma in pregnancy has resulted in fetal death, severe goiter and



cretanoid appearance of the newborn.

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

---NTP Carcinogen---

Ingredient Known Anticipated IARC Category

Sodium Iodide (7681-82-5) No No None

12. Ecological Information

Environmental Fate:

No information found.

Environmental Toxicity:

No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

-----\Chemical Inventory Status - Part 1\-----

Ingredient TSCA EC Japan Australia

Sodium Iodide (7681-82-5) Yes Yes Yes Yes

-----\Chemical Inventory Status - Part 2\-----

--Canada--

Ingredient Korea DSL NDSL Phil.

Sodium Iodide (7681-82-5) Yes Yes No Yes

-----\Federal, State & International Regulations - Part 1\-----

Eurolab ®

54-58 High Street Edgware, Middlesex, HA8 7EJ, UK

-SARA 302- -----SARA 313-----

Ingredient RQ TPQ List Chemical Catg.

Sodium Iodide (7681-82-5) No No No No

-----\Federal, State & International Regulations - Part 2\-----

-RCRA- -TSCAIngredient

CERCLA 261.33 8(d)

Sodium Iodide (7681-82-5) No No No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No

SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No

Reactivity: No (Pure / Solid)

Australian Hazchem Code: None allocated.

Poison Schedule: None allocated.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

No data