

Mallinckrodt

Material Safety Data

Emergency Phone Number: 314-982-5000

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Mallinckrodt, Inc., Science Products Division, P. O. Box M, Paris, KY 40361.

SODIUM IODIDE

PRODUCT IDENTIFICATION:

Synonyms: Sodium iodine; sodium moniodide
Formula CAS No.: 7681-82-5
Molecular Weight: 149.89
Chemical Formula: NaI
Hazardous Ingredients: Not Applicable

PRECAUTIONARY MEASURES

WARNING: CAUSES IRRITATION.

Avoid contact with eyes, skin and clothing.
Wash thoroughly after handling.

EMERGENCY/FIRST AID

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes. Call a physician.
SEE SECTION 5.
DOT Hazard Class: Not Regulated

SECTION 1 Physical Data

Appearance: White granular or colorless crystals
Odor: Odorless
Solubility: 159 g/100 ml water @ 20°C (32°F)
Boiling Point: 1300°C (2372°F)
Melting Point: 651°C (1204°F)
Specific Gravity: 3.67
Vapor Density (Air=1): No information found.
Vapor Pressure (mm Hg): 1 @ 767°C (1413°F)
Evaporation Rate: No information found.

SECTION 2 Fire and Explosion Information

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.

SECTION 3 Reactivity Data

Stability: 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, tartaric acid, potassium chlorate, metallic salts, iodine. Reacts violently with bromide trifluoride, perchloric acid, and oxidants.

SECTION 4 Leak/Spill Disposal Information

Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.
Disposal: Whatever cannot be saved for reclamation may be delivered to an approved waste disposal facility. Small amounts of residue may be flushed to sewer with plenty of water.

Ensure compliance with local, state and federal regulations.

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SECTION 5 Health Hazard Information

A. EXPOSURE / HEALTH EFFECTS

Inhalation:

Not expected to be a health hazard.

Ingestion:

Large oral doses may produce gastrointestinal disturbances; symptoms may include nausea, vomiting, and abdominal pain.

Skin Contact:

A skin irritant. May cause redness and pain.

Eye Contact:

A eye irritant. May cause redness, pain, and itching.

Chronic Exposure:

A mild toxic syndrome "iodism" may result from chronic iodide overdoses. May cause salivation, sneezing, conjunctivitis, headache, fever, laryngitis, bronchitis, stomatitis, and parotitis (iodine mumps). Prolonged or repeated skin exposure may cause skin rashes.

Aggravation of Pre-existing Conditions:

No information found.

B. FIRST AID

Inhalation:

Not expected to require first aid measures. If irritation develops, remove from exposure and consult a physician.

Ingestion:

Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

Skin Exposure:

Remove any contaminated clothing. Wipe off excess from skin. Wash skin with plenty of water for at least 15 minutes. Get medical attention promptly.

Eye Exposure:

Wash eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

C. TOXICITY DATA (RTECS, 1982)

Oral rat LD50: 4340 mg/kg Reproductive Data Class

Irritation Data: Skin rabbit: 500 mg/24H Moderate Eye rabbit: 100 mg/24H Severe

SECTION 6 Occupational Control Measures

Airborne Exposure Limits:

None established.

Ventilation System:

A local exhaust system which captures the contaminant at its source is recommended to prevent dispersion of the contaminant into the workroom air.

Personal Respirators: (NIOSH Approved)

For conditions of use where exposure to the dust is apparent, a dust/mist respirator may be worn. For emergencies, a self-contained breathing apparatus may be necessary.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Use chemical safety goggles. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work area.

SECTION 7 Storage and Special Information

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Protect from light.

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SODIO

U.S. G.P.O.