

MATERIAL SAFETY DATA SHEET

24 HR. EMERGENCY PHONE # CHEM-TREC 1-800-424-9300

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SECTION 1 Product Identification

CHEMICAL NAME: Sodium iodide, anhydrous
CAS #: 7681-82-5
FORMULA: NaI
SYNONYM: Sodium monoiodide

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	7681-82-5	100	no data	no data

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: Irritating to skin, eyes and respiratory tract. May be harmful if swallowed. Prolonged exposure may produce a mild toxic syndrome known as iodism.

PRIMARY ROUTES OF EXPOSURE: Contact with skin and eyes. Inhalation of dust.

EYE CONTACT: Contact with eyes causes irritation. May cause redness and pain.

SKIN CONTACT: Causes irritation to skin. Symptoms include redness, itching, and pain, pimples, boils, hives and blisters.

INHALATION: Causes irritation to the respiratory tract. Symptoms may include coughing and shortness of breath.

INGESTION: Large oral doses may cause irritation to the gastrointestinal tract

CHRONIC HEALTH EFFECTS: Chronic ingestion of iodides may produce iodism. Symptoms include skin rash, running nose, headache and irritation of mucous membranes. Animal studies indicate reproductive effects

ACUTE HEALTH EFFECTS: Irritating to skin, eyes and respiratory tract.

SECTION 4 First Aid Measures

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

INHALATION: Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.

INGESTION: Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

SECTION 5 Firefighting Measures

FLASH POINT: not applicable

AUTO IGNITION TEMPERATURE: none

EXPLOSION LIMITS: none

EXTINGUISHING MEDIUM: None. Material is non flammable

SPECIAL FIREFIGHTING PROCEDURES: If involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: none

UNUSUAL FIRE OR EXPLOSION HAZARDS: No unusual fire or explosion hazards.

SECTION 6 Accidental Release Measures

SPILL AND LEAK PROCEDURES: To avoid raising dust, small spills may be mixed with diatomaceous earth, sand, vermiculite or other suitable inert material and swept up.

SECTION 7 Handling and Storage

HANDLING AND STORAGE: Store material in a tightly sealed container away from moisture. Handle under a dry atmosphere of air or nitrogen. Prolonged exposure to the atmosphere may degrade the product.

SECTION 8 Exposure Controls and Personal Protection

EYE PROTECTION: Always wear approved safety glasses w/side shields, or safety goggles, face shield when handling a chemicals substance in the laboratory.

SKIN PROTECTION: Chemical-resistant.

VENTILATION: If possible, handle the material in an efficient fume hood.

RESPIRATOR: If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

SECTION 9 Physical and Chemical Properties

COLOR AND FORM: white powder

MOLECULAR WEIGHT: 149.89

MELTING POINT (DEG. C.): none

BOILING POINT: 1304^o

VAPOR PRESSURE: no data

SPECIFIC GRAVITY: 3.667

SOLUBILITY IN WATER: 184g/100 cc(25^oC)

SECTION 10 Stability and Reactivity

STABILITY: hygroscopic

HAZARDOUS POLYMERIZATION: no hazardous polymerization

CONDITIONS TO AVOID: contact with moisture

INCOMPATIBILITY: Chlorine, bromine, perchloric acid and strong acids.

DECOMPOSITION PRODUCTS: none

SECTION 11 Toxicological Information

RTECS DATA: Administration onto the skin (rabbit); Standard Draize test: 500 mg/24H. Administration into the eye (rabbit); Standard Draize test: 100 mg/24H. Oral (rat); LD50: 4340 mg/kg. Intravenous (rat); LD50: 1060 mg/kg. Oral (mouse); LD50: 1 gm/kg. Intraperitoneal (mouse); LD50: 430 mg/kg. Intravenous (dog); LDLo: 760 mg/kg. Oral (rabbit); LDLo: 2362 mg/kg. Oral (rat); 64267 ug/kg/14W-C. Oral (human-woman); TDLo: 9240 mg/kg.

MUTAGENIC EFFECTS: no data

TETRATOGENIC EFFECTS: no data

CARCINOGENIC EFFECTS: no data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 Ecological Information

ECOLOGICAL INFORMATION: No information available

SECTION 13 Disposal Considerations

DISPOSAL: Dispose of in according to local state and federal regulations.

SECTION 14 Transportation Information

Non-hazardous

Non-hazardous

SECTION 15 Regulatory Information

TSCA: Listed in the TSCA inventory

SARA (TITLE 313): Title compound not listed

SECTION 16 Other Information

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

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