

Safety Data Sheet (SDS)

SODIUM IODIDE

1. Identification of the Substance	PRODUCT NAME: Sodium Iodide Anhydrous SYNONYM: Sodium Monoiodide, Sodium Iodine, Anayodin DISTRIBUTOR: EcoFusion Inc., PO Box 251408. Plano, TX 75025 – 1408 (USA) TEL: +1 972 403 7449 FAX: +1 214 291 5348 EMERGENCY: CHEMTREC 800 424 9300
2. Hazards Identification	EMERGENCY OVERVIEW: May cause respiratory and digestive tract irritation. Prolonged exposure may cause pulmonary edema. This substance has caused adverse reproductive and fetal effects in animals. Air sensitive. Moisture sensitive. Light sensitive. Causes eye and skin irritation. EYE: Causes eye irritation SKIN: Causes skin irritation. May cause sensitization by skin contact. INGESTION: Causes gastrointestinal irritation with nausea, vomiting and diarrhea. Chronic ingestion of iodides during pregnancy has resulted in fetal death, severe goiter, and cretinoid appearance of the newborn. INHALATION: May cause respiratory tract irritation. May cause respiratory sensitization. CHRONIC: Prolonged or repeated exposure may cause adverse reproductive effects. Chronic exposure can lead to iodism characterized by salivation, nasal discharge, sneezing, conjunctivitis, fever, laryngitis, bronchitis, stomatitis, and skin rashes. Adverse reproductive effects have been reported in animals.
3. Composition / Information on Ingredients	CHEMICAL FORMULA: NaI EINECS #: 231-679-3 CAS NO.: 7681-82-5 INGREDIENTS: Sodium, Iodine
4. First Aid Measures	SKIN: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse. EYES: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid. INGESTION: Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid. INHALATION: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear. Treat symptomatically and supportively.
5. Fire Fighting Measures	EXTINGUISHING MEDIA: Substance is noncombustible; use agent most appropriate to extinguish surrounding fire. Do NOT get water inside containers. 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 and highly toxic gases may be generated by thermal decomposition or combustion. Use extinguishing media appropriate to the surrounding fire. Substance is noncombustible.

6. Accidental Release Measures	<p>SPILL: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation. Place under an inert atmosphere. Do not get water inside containers.</p> <p>GENERAL INFORMATION: Use proper personal protective equipment as indicated in Section 8.</p>
7. Handling and Storage	<p>HANDLING: Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Store protected from light. Handle under an inert atmosphere. Store protected from air. Do not allow contact with water. Keep from contact with moist air and steam.</p> <p>STORAGE: Store in a cool place in the original container and protect from sunlight. Do not store in direct sunlight. Store in a tightly closed container. Do not expose to air. Store protected from moisture. Store protected from light. Store under an inert atmosphere.</p>
8. Exposure Controls / Personal protection	<p>ENGINEERING CONTROLS: Use adequate ventilation to keep airborne concentrations low.</p> <p>EXPOSURE LIMITS: No information available.</p> <p>PERSONAL PROTECTIVE EQUIPMENT</p> <p>EYE: 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.</p> <p>CLOTHING & SKIN: Wear appropriate protective gloves to prevent skin exposure. Wear appropriate protective clothing to prevent skin exposure.</p> <p>RESPIRATORS: Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.</p>
9. Physical and Chemical properties	<p>PHYSICAL STATE: Solid White</p> <p>ODOUR: Odorless</p> <p>PH: NA</p> <p>MELTING POINT: 661 Deg C</p> <p>BOILING POINT: 1300 deg C @ 760.00mm Hg</p> <p>SOLUBILITY: 1790 G/L (20°C)</p> <p>MOLECULAR WEIGHT: 149.89</p> <p>SPECIFIC GRAVITY/DENSITY: 3.6670g/cm3</p>
10. Stability and Reactivity	<p>STABILITY: Stable under ordinary conditions of use and storage.</p> <p>CONDITIONS TO AVOID: Incompatible materials, light, moisture, exposure to air, contact with water, strong oxidants.</p> <p>HAZARDOUS POLYMERIZATION: Will not occur</p> <p>HAZARDOUS DECOMPOSITION PRODUCTS: Irritating and toxic fumes and gases, hydrogen iodide, sodium oxide, iodine.</p>
11. Toxicological Information	<p>RTECS#:</p> <p>CAS# 7681-82-5: WB6475000</p> <p>LD50/LC50:</p> <p>CAS# 7681-82-5: Draize test, rabbit, eye: 100 mg/24H Moderate; Draize test, rabbit, skin: 500 mg/24H Moderate; Oral, mouse: LD50 = 1 gm/kg; Oral, rat: LD50 = 4340 mg/kg;</p> <p>Carcinogenicity: CAS# 7681-82-5: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.</p>
12. Ecological Information	<p>ECOTOXICITY: No data available. Fathead minnow, LC50: 3200ng/L (96H); Water flea, LC50: 3.3mg/L (96H); Golden orfe,</p>

	LC50:10,000mg/L. ENVIRONMENTAL: This chemical is expected to cause little oxygen depletion in aquatic systems. This product is not likely to bioconcentrate. PHYSICAL: No information found.
13. Disposal Considerations	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
14. Transport Information	No Information available.
15. Regulatory Information	TSCA CAS# 7681-82-5 is listed on the TSCA inventory. CHEMICAL TEST RULES None of the chemicals in this product are under a Chemical Test Rule. OSHA: None of the chemicals in this product are considered highly hazardous by OSHA.
16. Other Information	N/A

THE INFORMATION IN THIS MSDS RELATES TO THIS SPECIFIC MATERIAL. IT MAY NOT BE VALID FOR THIS MATERIAL IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USERS' RESPONSIBILITY TO SATISFY THEMSELVES AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR THEIR OWN PARTICULAR USE.

All non-emergency questions should be
Directed to Customer Service at

24 hour emergency Telephone: Chemtrec 800-424-9300
National response in Canada: Canutec 613-996-6666
Outside US & Canada: Chemtrec: 202-483-7616

Note: Chemtrec and Canutec emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, exposure or accident involving chemicals.