



Material Safety Data Sheet

Sodium Iodide, Anhydrous, 99+%

MSDS# 21340

Section 1 - Chemical Product and Company Identification

MSDS Name: Sodium Iodide, Anhydrous, 99+%
Catalog Numbers: AC203180000, AC203180010, AC203180050, AC203182500, AC203185000, AC212680000, AC212680000, AC212680010, AC212680100, AC419570000, AC419575000, BP323-100, S324-100, S324-500, S473-500
Synonyms: Sodium Monoiodide; Sodium Iodine; Anayodin.

Company Identification: Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
For information in the US, call: 201-796-7100
Emergency Number US: 201-796-7100
CHEMTREC Phone Number, US: 800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#: 7681-82-5
Chemical Name: Sodium Iodide
%: >99.0
EINECS#: 231-679-3

Hazard Symbols: None listed
Risk Phrases: None listed

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Caution! Light sensitive. Air sensitive. Moisture sensitive. This substance has caused adverse reproductive and fetal effects in animals. May cause eye, skin, and respiratory tract irritation. Target Organs: Blood, thyroid.

Potential Health Effects

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 headache, excess salivation, nasal discharge, conjunctivitis, laryngitis, bronchitis, stomatitis, enlarged submaxillary glands, and skin rashes. Adverse reproductive effects have been reported in animals.

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.
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 and move 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.

Notes to
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 and highly toxic gases may be generated by thermal decomposition or combustion. Use extinguishing media appropriate to the surrounding fire. Substance is noncombustible.

Extinguishing Media: Substance is noncombustible; use agent most appropriate to extinguish surrounding fire. Do NOT get water inside containers.

Autoignition Temperature: Not available.

Flash Point: Not available

Explosion Limits: Lower: Not available

Explosion Limits: Upper: Not available

NFPA Rating: health: 1; flammability: 0; instability: 1;

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: 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.

Section 7 - Handling and Storage

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.

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.

Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Sodium Iodide	none listed	none listed	none listed

OSHA Vacated PELs: Sodium Iodide: None listed

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

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 minimize contact with skin.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Solid

Color: white

Odor: odorless

pH: Not available

Vapor Pressure: 1.3 mbar @ 767 deg

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: Not available

Boiling Point: 1300 deg C @ 760 mmHg (2,372.00°F)

Freezing/Melting Point: 661 deg C (1,221.80°F)

Decomposition Temperature: Not available

Solubility in water: 1790 G/L (20°C)

Specific Gravity/Density: 3.6670g/cm3

Molecular Formula: INa

Molecular Weight: 149.89

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Incompatible materials, light, moisture, exposure to air, contact with water, strong oxidants.
Incompatibilities with Other Materials: Not available
Hazardous Decomposition Products: Strong oxidants, hydrogen iodide, sodium oxide, iodine.
Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 7681-82-5: WB6475000
RTECS:
CAS# 7681-82-5: Draize test, rabbit, eye: 100 mg/24H Moderate;
LD50/LC50: Draize test, rabbit, skin: 500 mg/24H Moderate;
Oral, mouse: LD50 = 1000 mg/kg;
Oral, rat: LD50 = 4340 mg/kg;
Carcinogenicity: Sodium Iodide - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Ecotoxicity: Not available

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Not regulated as a hazardous material

Hazard Class:

UN Number:

Packing Group:

Canada TDG

Shipping Name: Not available

Hazard Class:

UN Number:

Packing Group:

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 7681-82-5: 1

Canada

CAS# 7681-82-5 is listed on Canada's DSL List

Canadian WHMIS Classifications: D2B, D2A

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 7681-82-5 is listed on Canada's Ingredient Disclosure List

US Federal

TSCA

CAS# 7681-82-5 is listed on the TSCA
Inventory.

REVIEWED

Section 16 - Other Information

MSDS Creation Date: 7/12/1999

Revision #8 Date 7/20/2009

DATE: JUNE 12/2012
Chuteford

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.
