

MATERIAL SAFETY DATA SHEET  
Sodium iodide

**Section 1 - Chemical Product and Company Identification**

**MSDS Name:** Sodium iodide  
**Catalog Numbers:** 20318-0000, 20318-0010, 20318-0050, 20318-2500, 21268-0000, 21268-0010, 21268-0100  
**Synonyms:**  
**Company Identification:** Acros Organics BVBA  
 Janssen Pharmaceuticaaan 3a  
 2440 Geel, Belgium  
**Company Identification: (USA)** Acros Organics  
 One Reagent Lane  
 Fair Lawn, NJ 07410  
**For information in the US, call:** 800-ACROS-01  
**For information in Europe, call:** +32 14 57 52 11  
**Emergency Number, Europe:** +32 14 57 52 99  
**Emergency Number US:** 201-796-7100  
**CHEMTREC Phone Number, US:** 800-424-9300  
**CHEMTREC Phone Number, Europe:** 703-527-3887

**Section 2 - Composition, Information on Ingredients**

CAS#	Chemical Name:	%	EINECS#
7681-82-5	Sodium iodide	99+%	231-679-3

**Hazard Symbols:** None listed

**Risk Phrases:** None listed

**Section 3 - Hazards Identification**
**EMERGENCY OVERVIEW**

*Not available*

**Potential Health Effects**

**Eye:** May cause eye irritation.  
**Skin:** May cause skin irritation. May be harmful if absorbed through the skin.  
**Ingestion:** May cause irritation of the digestive tract. May be harmful if swallowed.  
**Inhalation:** May cause respiratory tract irritation. May be harmful if inhaled.  
**Chronic:**

**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:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion:** Get medical aid. Wash mouth out with water.  
**Inhalation:** Remove from exposure and move to fresh air immediately. Get medical aid.  
**Notes to Physician:** Treat symptomatically and supportively.

### 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.  
**Extinguishing Media:** Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

### 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. Avoid generating dusty conditions. Do not let this chemical enter the environment.

### Section 7 - Handling and Storage

**Handling:** Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Avoid ingestion and inhalation.  
**Storage:** Store in a cool, dry place. Store in a tightly closed container. Store under nitrogen.

### Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:**  
Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits**  
CAS# 7681-82-5:

### Personal Protective Equipment

**Eyes:** Wear chemical splash goggles.  
**Skin:** Wear appropriate protective gloves to prevent skin exposure.  
**Clothing:** Wear appropriate protective clothing to prevent skin exposure.  
**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:** Powder  
**Color:** white  
**Odor:** odorless  
**pH:** 6-9 (50 g/L aq.sol.)  
**Vapor Pressure:** 1.3mbar @767 deg C  
**Viscosity:** Not available  
**Boiling Point:** 1300 deg C @760mmHg ( 2,372.00°F)  
**Freezing/Melting Point:** 661 deg C ( 1,221.80°F)  
**Autoignition Temperature:** Not available  
**Flash Point:** Not available  
**Explosion Limits: Lower:** Not available

**Explosion Limits: Upper:** Not available  
**Decomposition Temperature:** Not available  
**Solubility in water:** 184 g/100ml (25°C)  
**Specific Gravity/Density:** 3.660  
**Molecular Formula:** INa  
**Molecular Weight:** 149.89

### Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures. May discolor on exposure to light. Air sensitive. Light sensitive. Hygroscopic: absorbs moisture or water from the air.

**Conditions to Avoid:** Incompatible materials, light, exposure to air, exposure to moist air or water.

**Incompatibilities with Other Materials** Strong oxidizing agents, strong oxidizing agents, strong acids, bromine trifluoride, potassium chlorates, metallic salts, perchloric acid, potassium iodide, calomel.

**Hazardous Decomposition Products** Hydrogen iodide, sodium oxide, iodine.

**Hazardous Polymerization** Will not occur.

### Section 11 - Toxicological Information

**RTECS#:** CAS# 7681-82-5: WB6475000

**LD50/LC50:** RTECS:  
**CAS# 7681-82-5:** Draize test, rabbit, eye: 100 mg/24H Moderate;  
Draize test, rabbit, skin: 500 mg/24H Moderate;  
Oral, mouse: LD50 = 1000 mg/kg;  
Oral, rat: LD50 = 4340 mg/kg;  
Other:

**Carcinogenicity:** Sodium iodide - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

**Other:** The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

### Section 12 - Ecological Information

**Other:** This chemical is not likely to bioconcentrate. Do not empty into drains.

### Section 13 - Disposal Considerations

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

### Section 14 - Transport Information

	IATA	IMO	RID/ADR
<b>Shipping Name:</b>	Not regulated.	Not regulated.	Not regulated.
<b>Hazard Class:</b>			
<b>UN Number:</b>			
<b>Packing Group:</b>			

### 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

**US Federal**

TSCA

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

**Section 16 - Other Information**

**MSDS Creation Date:** 7/16/1996

**Revision #1 Date** 10/16/2006

**Revisions were made in Sections:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10,

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