



## Material Safety Data Sheet

### Sodium iodide, ACS

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

**MSDS Name:**

Sodium iodide, ACS

**Catalog Numbers:**

LC24645

**Synonyms:**

Sodium monioiodide, sodium iodine.

**Company Identification:**

LabChem, Inc.

200 William Pitt Way

Pittsburgh, PA 15238

**Company Phone Number:**

(412) 826-5230

**Emergency Phone Number:**

(800) 424-9300

**CHEMTREC Phone Number:**

(800) 424-9300

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

CAS#	Chemical Name:	Percent
7681-82-5	Sodium iodide	100%

#### Section 3 - Hazards Identification

##### Emergency Overview

**Appearance:** white solid

**Caution!** Causes eye and skin irritation. 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. Light sensitive. Moisture sensitive.

**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.



## Material Safety Data Sheet

### Sodium iodide, ACS

#### **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:**

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. 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:**

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. Do NOT get water inside containers.

#### **Autoignition Temperature:**

No information found.

#### **Flash Point:**

No information found.

#### **NFPA Rating:**

Health-1; flammability-0; reactivity-0

#### **Explosion Limits:**

Lower: n/a      Upper: n/a



## Material Safety Data Sheet Sodium iodide, ACS

### 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

#### Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

#### Exposure Limits:

Chemical Name:	ACGIH	NIOSH	OSHA
Sodium iodide	none listed	none listed	none listed

#### OSHA Vacated PELs:

Sodium iodide: No OSHA Vacated PELs are listed.

### Personal Protective Equipment

#### Eyes:

Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear appropriate protective eyeglasses or chemical safety goggles as described in 29 CFR 1910.133.

#### Skin:

Wear appropriate protective gloves to prevent skin exposure.

#### Clothing:

Wear appropriate protective clothing to prevent skin exposure.



## Material Safety Data Sheet Sodium iodide, ACS

### Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA 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°C
Vapor Density:	Not available
Evaporation Rate:	Not available
Viscosity:	Not available
Boiling Point:	1300°C @ 760 mm Hg
Freezing/Melting Point:	661°C
Decomposition Temperature:	Not available
Solubility in water:	1790 G/L (20°C)
Specific Gravity/Density:	3.6670g/cm <sup>3</sup>
Molecular Formula:	NaI
Molecular Weight:	149.89

## Section 10 - Stability and Reactivity

### Chemical Stability:

Stable under normal storage and handling conditions.

### Conditions to Avoid:

Incompatible materials, light, moisture, exposure to air, contact with water, strong oxidants.

### Incompatibilities with Other Materials:

Strong oxidizing agents.

### Hazardous Decomposition Products:

Irritating and toxic fumes and gases, hydrogen iodide, sodium oxide, iodine.

### Hazardous Polymerization:

Has not been reported.

## Section 11 - Toxicological Information

### RTECS:

CAS# 7681-82-5: WB6475000

### LD50/LC50:

CAS# 7681-82-5:

Draize test, rabbit, eye: 100 mg/24H Moderate;

Draize test, rabbit, skin: 500 mg/24H Moderate;



## Material Safety Data Sheet Sodium iodide, ACS

Oral, mouse: LD50 = 1000 mg/kg;

Oral, rat: LD50 = 4340 mg/kg.

### **Carcinogenicity:**

CAS# 7681-82-5: Not listed by ACGIH, IARC, NTP, or CA Proposition 65.

### **Epidemiology:**

No information available.

### **Teratogenicity:**

See RTECS for actual entry.

### **Reproductive:**

See RTECS for actual entry.

### **Mutagenicity:**

No information available.

### **Neurotoxicity:**

No information available.

## Section 12 - Ecological Information

### **Ecotoxicity:**

No data available. Fathead minnow, LC50: 3200ng/L (96H); Water flea, LC50: 3.3mg/L (96H); Golden orfe, 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.

### **Other:**

No information available.

## Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

## Section 14 - Transport Information

### **US DOT**

**Shipping Name:** Not regulated.

**Hazard Class:**

**UN Number:**

**Packing Group:**

## Section 15 - Regulatory Information

### **US Federal**

#### **TSCA:**

CAS# 7681-82-5 is listed on the TSCA inventory. Does not have a Significant New Use Rule.



## Material Safety Data Sheet

### Sodium iodide, ACS

**SARA Reportable Quantities (RQ):**

CAS# 7681-82-5 does not have a RQ.

**CERCLA/SARA Section 313:**

Not reportable under Section 313.

**OSHA - Highly Hazardous:**

Not considered highly hazardous by OSHA.

**US State****State Right to Know:**

CAS# 7681-82-5 is not listed on the following state right to know lists: California, Florida, New Jersey, Pennsylvania, Minnesota, and Massachusetts.

**California Regulations:**

Not listed.

**European/International Regulations****Canadian DSL/NDSL:**

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

**Canada Ingredient Disclosure List:**

CAS# 7681-82-5 is listed on the Ingredient Disclosure List.

## Section 16 - Other Information

MSDS Creation Date: August 2, 2006

Revision Date: None

*Information in this MSDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and LabChem Inc. assumes no liability resulting from the use of this MSDS. The user must determine suitability of this information for his application.*