

# Material Safety Data Sheet



## IODINE SOLUTION 0.08%

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**Carolina Biological Supply Company**

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**CAROLINA**  
www.carolina.com

### Section 1 - Product Description

**Product Name:** Iodine Solution 0.08%

**Product Code(s):** 97-2104, 97-2101, 97-2901, 97-2925

**Size:** 250 mL

**Chemical Name:** N/A

**CAS Number:** See Section 3

**Formula:** See Section 3

**Synonyms:** N/A

**Distributor:** Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

**Chemical Information:** 800-227-1150 (8am-5pm (ET) M-F) **Chemtrec** 800-424-9300 (Transportation Spill Response 24 hours)

### Section 2 - Hazard Identification

**Emergency Overview:** Danger of serious damage to health by prolonged exposure. Vapours may cause drowsiness and dizziness. Irritating to eyes, respiratory system and skin.

**Potential Health Effects:**

**Eyes:** May cause irritation.

**Skin:** May cause irritation to skin.

**Ingestion:** May cause gastrointestinal discomfort.

**Inhalation:** May cause irritation to respiratory tract.

### Section 3 - Composition / Information on Ingredients

**Principal Hazardous Components:** Sodium Iodide (CAS#7681-82-5) 0.96%; Iodine (CAS#7553-56-2) 0.08%; Ethanol (CAS#64-17-5) 2.0%

**TLV units:** (Iodine) ACGIH TLV 0.1 ppm (Ceiling)

(Ethanol) ACGIH TLV 1000 ppm (TWA)

**PEL units:** (Iodine) OSHA PEL 0.1 ppm (Ceiling)

(Ethanol) OSHA PEL 1000 ppm (TWA)

### Section 4 - First Aid Measures

**Emergency and First Aid Procedures:**

**Eyes** - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Skin** - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of ... (Water, unless specified as a water reactive material).

**Ingestion** - If swallowed, rinse mouth with water (only if the person is conscious). If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

**Inhalation** - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

## Section 5 - Firefighting Procedures

**Flash Point (Method Used):** N/A

**NFPA Rating:**

**Health:** 0

**Fire:** 0

**Reactivity:** 0

**Extinguisher Media:** Use dry chemical, CO2 or appropriate foam.

**Flammable Limits in Air % by Volume:** LEL 3.3% (Ethanol) UEL 19.0% (Ethanol)

**Autoignition Temperature:** N/A

**Special Firefighting Procedures:** Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

**Unusual Fire and Explosion Hazards:** N/A

## Section 6 - Spill or Leak Procedures

**Steps to Take in Case Material Is Released or Spilled:** Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

## Section 7 - Special Precautions

**Precautions to Take in Handling or Storing:** Harmful if swallowed.

Keep away from sources of ignition - No smoking.

Avoid excess heat. Keep container tightly closed in a cool, well-ventilated place.

## Section 8 - Protection Information

**Respiratory Protection (Specify Type):** None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

**Ventilation:**

**Local Exhaust:** Yes

**Mechanical(General):** No

**Special:** No

**Other:** No

**Protective Gloves:** Natural rubber, Neoprene, PVC or equivalent.

**Eye Protection:** Splash proof chemical safety goggles should be worn.

**Other Protective Clothing or Equipment:** Lab coat, apron, eye wash, safety shower.

## Section 9 - Physical Data

**Molecular Weight:** 500 mL

**Boiling Point:** N/A

**Vapor Density(Air=1):** 1.59 (ethanol)

**Percent Volatile by Volume:** 95%

**Solubility in Water:** Soluble

**Melting Point:** N/A

**Vapor Pressure:** N/A

**Specific Gravity (H2O=1):** N/A

**Evaporation Rate (BuAc=1):** >1

**Appearance and Odor:** Dark brown liquid with fruity odor.

## Section 10 - Reactivity Data

**Stability:** Stable

**Conditions to Avoid:** Heat and sources of ignition.

**Incompatibility (Materials to Avoid):** Oxidizers,

**Hazardous Decomposition Products:** COx,

**Hazardous Polymerization:** Will not occur

## Section 11 - Toxicity Data

**Toxicity Data:** (Sodium Iodide) orl-rat LD50 4340 mg/kg

(Iodine) orl-rat LD50 14 g/kg

(Ethanol) orl-rat LD50 7060 mg/kg

**Effects of Overexposure:**

**Acute:** See Section 2

**Chronic:** N/A

**Conditions Aggravated by Overexposure:** Respiratory disorders, Skin disorders, Eye disorders,

**Target Organs:** Respiratory system,

**Primary Route(s) of Entry:** Ingestion.

## Section 12 - Ecological Data

**EPA Waste Numbers:** N/A

## Section 13 - Disposal Information

**Waste Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

## Section 14 - Transport Information

**DOT Proper Shipping Name:** N/A

## Section 15 - Regulatory Information

**EPA TSCA Status:** On TSCA Inventory

**Hazard Category for SARA Section 311/312 Reporting:** Acute

**Name List:**

Sodium Iodide - No

Iodine - No

Ethanol - No

**Chemical Category:**

Sodium Iodide - No

Iodine - No

Ethanol - No

**CERCLA Section 103 RQ(lb.):** Sodium Iodide - No

Iodine - No

Ethanol - No

**RCRA Section 261.33:** Sodium Iodide - No

Iodine - No

## Section 16 - Additional Information

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

### Glossary

|            |   |
|------------|---|
| ACGIH      | American Conference of Governmental Industrial Hygienists             |
| CAS Number | Chemical Services Abstract Number                                     |
| CERCLA     | Comprehensive Environmental Response, Compensation, and Liability Act |
| DOT        | U.S. Department of Transportation                                     |
| IARC       | International Agency of Research on Cancer                            |
| N/A        | Not Available   |
| NTP        | National Toxicology Program   |
| OSHA       | Occupational Safety and Health Administration                         |
| PEL        | Permissible Exposure Limit  |
| ppm        | Parts per million   |
| RCRA       | Resource Conservation and Recovery Act                                |
| SARA       | Superfund Amendments and Reauthorization Act                          |
| TLV        | Threshold Limit Value   |
| TSCA       | Toxic Substances Control Act  |