

# **MATERIAL SAFETY DATA SHEET**

IODINE POTASSIUM IODIDE  
CAROLINA BIOLOGICAL

Revised: 09/12/07  
Replaces: 07/10/07  
Printed: 05/20/08

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## **1. PRODUCT DESCRIPTION**

Product Name: Iodine Potassium Iodide  
Product Code(s): 86-9051, 86-9053, 86-9055, 20-2220, 20-2340, 20-2341,  
20-2500, 20-2501, 74-6410, 95-7860, 74-6410, 20-6078,  
B5997, B6080, B6085, 20-2335, 20-6000, 20-6070,  
20-2275, 10-1026  
Size: Various  
Chemical Name: N/A  
CAS Number: Does not apply  
Formula: See Section 2  
Synonyms: None known  
Distributor: Carolina Biological Supply Company  
2700 York Road  
Burlington, NC 27215  
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)  
Chemtrec (Transportation Spill Response 24 hours): 800-424-9300

## **2. COMPOSITION/INFORMATION ON INGREDIENTS**

Principal Hazardous Components: Iodine (CAS#7553-56-2) 1%  
Potassium Iodide (CAS#7681-11-0) 2.0%  
TLV and PEL units: Iodine ACGIH-TLV 0.1 ppm ceiling  
OSHA-PEL 0.1 ppm ceiling

## **3. HAZARD IDENTIFICATION**

Emergency Overview: May be harmful if swallowed, inhaled or absorbed through the skin.  
Potential Health Effects:  
Eyes: May cause irritation.  
Skin: May cause irritation.  
Ingestion: May cause gastrointestinal discomfort.  
Inhalation: May cause irritation to respiratory tract.

## **4. FIRST AID MEASURES**

Emergency and First Aid Procedures:  
Eyes - Flush with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention if irritation persists.  
Skin - Thoroughly wash exposed area for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation persists.  
Ingestion - If swallowed, if conscious, give plenty of water. Immediately call a physician or poison control center. Never give anything by mouth to an unconscious person.  
Inhalation - Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm and quiet, and get medical attention.

## **5. FIREFIGHTING PROCEDURES**

Flash Point(Method Used): No data available  
NFPA Rating: None established  
Extinguisher Media:  
Use dry chemical, CO2 or appropriate foam.  
Flammable Limits in Air % by Volume: No data available  
Autoignition Temperature: No data available  
Special Firefighting Procedures:  
Firefighters should wear full protective equipment and NIOSH approved

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self-contained breathing apparatus.  
Unusual Fire and Explosion Hazards: No data available

### **6. SPILL OR LEAK PROCEDURES**

Steps to be Taken 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.

### **7. SPECIAL PRECAUTIONS**

Precautions to be Taken in Handling or Storing: Store in a tightly closed container in a cool, dry, well ventilated area.

### **8. SPECIAL PROTECTION INFORMATION**

Respiratory Protection(Specify Type):

A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

Local Exhaust: Yes  
Mechanical(General): Yes  
Special: No  
Other: No

Protective Gloves:

Rubber, neoprene, PVC, or equivalent.

Eye Protection:

Splash proof chemical safety goggles should be worn at all times.

Other Protective Clothing or Equipment:

Lab apron, eye wash, and safety shower.

### **9. PHYSICAL DATA**

Molecular Weight: No data available

Melting Point: No data available

Boiling Point: No data available

Vapor Pressure: No data available

Vapor Density(Air=1): No data available

Specific Gravity(H2O=1): No data available

Percent Volatile by Volume: 98%

Evaporation Rate(H2O=1): No data available

Solubility in Water: Miscible

Appearance and Odor: Dark brown liquid with slight characteristic odor of iodine.

### **10. REACTIVITY DATA**

Stability: Stable

Conditions to Avoid: No data available

Incompatibility(Materials to Avoid): No data available

Hazardous Decomposition Products: No data available

Hazardous Polymerization: Will not occur

### **11. TOXICITY DATA**

Toxicity Data: Potassium Iodide: orl-mus LDLo: 1862 mg/kg

ivn-rat LD50: 167 mg/kg

Iodine: ihl-rat LClo: 800 mg/m<sup>3</sup> for 1H

orl-rat LD50: 14 g/kg

Effects of Overexposure:

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Acute: See section 3  
Chronic: Potassium Iodide: Mutation and reproductive data cited. Not listed as causing cancer by NTP, IARC or OSHA.  
Iodine: Mutation and reproductive data cited. Not listed as causing cancer by NTP, IARC or OSHA.  
Conditions Aggravated by Overexposure: No data available  
Target Organs: No data available  
Primary Route(s) of Entry: No data available

## 12. ECOLOGICAL DATA

EPA Waste Numbers: Iodine D002

## 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.

## 14. TRANSPORT INFORMATION

Not regulated

## 15. REGULATORY INFORMATION

EPA TSCA Status: On TSCA Inventory  
Hazard Category for SARA Section 311/312 Reporting: Acute

Product or Components	SARA EHS Sec. 302 TPQ	SARA Sec. 313 Chemicals		CERCLA Sec. 103 RQ lbs.	RCRA Sec. 261.33
		Name List	Chemical Category		
Potassium Iodide	No	No	No	No	No
Iodine	No	No	No	No	No

## 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 Abstracts Service Number  
CERCLA.....Comprehensive Environmental Response, Compensation, and Liability Act  
DOT.....U.S. Department of Transportation  
IARC.....International Agency of Research on Cancer  
mppcf.....million particles per cubic foot  
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

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TLV.....Threshold Limit Value  
TSCA.....Toxic Substances Control Act