

MATERIAL SAFETY DATA SHEET

IODINE POTASSIUM IODIDE SOLUTION
CAROLINA BIOLOGICAL SUPPLY COMPANY

Revised: 09/05/00
Replaces: None
Printed: 23/08/00

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

Principle Hazardous Components: Iodine (CAS#7553-56-2) 1%
Potassium Iodide (CAS#7681-11-0) 2.0%
TLV and PEL units: Iodide 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, 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.

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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 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 coat, eyewash, 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

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Hazardous Polymerization: Will not occur

11. TOXICITY DATA

Toxicity Data: Potassium Iodide: ipr-mus LD50: 1117 mg/kg
 orl-rat LD50: 1862 mg/kg
 Iodine: ihl-rat LC10: 800 mg/m3
 orl-rat LD50: 14g/kg

Effects of Overexposure:
 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

Description: Corrosive liquids, n.o.s.(iodine), 8, UN1760, III
 30 mL bottle is a small quantity exception.

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		CERCLA Sec. 103 RQ lbs.	RCRA Sec.
		Chemicals Name	Chemical List Category		
261.33					

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.

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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