Material Safety Data Sheet



Iodine

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Carolina Biological Supply Company

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150



Section 1 - Product Description

Product Name: Iodine

Product Code(s): 86-8970, 86-8972, 86-8980, 86-8982, 86-8984, 86-8990

Size: Various

Chemical Name: Iodine **CAS Number:** 7553-56-2

Formula: I2 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: WARNING - Causes burns. May be fatal if swallowed or inhaled. May cause delayed injury. Sublimes.

Potential Health Effects:

Eyes: Causes severe burns and eye damage upon direct

contact. Vapor is irritating.

Ingestion: May severely irritate or damage digestive tract.

Skin: May cause severe irritation or chemical burns.

Inhalation: May severely irritate or damage mucous

membranes and respiratory tract.

Section 3 - Composition / Information on Ingredients

Principal Hazardous Components: Iodine (CAS # 7553-56-2) 99%TLV units: ACGIH-TLV 0.1 ppm (Ceiling); 1.0 mg/m3 (Ceiling)PEL units: OSHA-PEL 0.1 ppm (Ceiling); 1 mg/m3 (Ceiling)

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.

Ingestion - 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.

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Section 5 - Firefighting Procedures

Flash Point (Method Used): N/A

NFPA Rating: Health: 2 Fire: 0 Reactivity: 0

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

Flammable Limits in Air % by Volume: N/A

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: Fire or excessive heat may produce hazardous decomposition products.

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: Avoid direct sunlight and heat.

Keep away from ... (incompatible materials to be indicated by the manufacturer).

Do not breathe gas/fumes/vapour/spray.

Avoid contact with skin and eyes.

Avoid contact with clothing.

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):** Yes

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: 253.80 Melting Point: 113.5

Boiling Point: 184°C **Vapor Pressure:** 0.2 mm at 20°C **Vapor Density(Air=1):** 4.4 **Specific Gravity (H2O=1):** 4.93

Percent Volatile by Volume: 100% **Evaporation Rate (BuAc=1):** Sublimes at ordinary temperatures **Appearance and Odor:** Bluish-black scales, crystals, metallic luster,

characteristic odor, sharp acrid taste.

Section 10 - Reactivity Data

Stability: Stable

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Conditions to Avoid: Heat and sources of ignition.

Incompatibility (Materials to Avoid): Ammonia fumes, Acetaldehyde, Sodium, Bases, Halogens,

Hazardous Decomposition Products: N/A **Hazardous Polymerization:** Will not occur

Section 11 - Toxicity Data

Toxicity Data: ihl-rat LCLo 137 ppm/1H; orl-rat LD50 14 gm/kg

Effects of Overexposure: Acute: See Section 2

Chronic: Mutation data cited. Reproductive data cited. Not listed as a carcinogen by IARC, NTP or OSHA.

Conditions Aggravated by Overexposure: Eye disorders, Skin disorders, Respiratory disorders, Impaired Kidney Function,

Central Nervous System Disorders

Target Organs: Eyes, Skin, Respiratory system,

Primary Route(s) of Entry: N/A

Section 12 - Ecological Data

EPA Waste Numbers: D002

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: UN1759, Description: Corrosive solids, N.O.S. (Iodine), 8, III

30 g bottle is a small quantity exception.

Section 15 - Regulatory Information

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Name List: Chemical Category:

Iodine - No

CERCLA Section 103 RQ(lb.): Iodine - No

RCRA Section 261.33: 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

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DOT U.S. Department of Transportation

International Agency of Research on Cancer IARC

N/A Not Available

NTP

National Toxicology Program
Occupational Safety and Health Administration
Permissible Exposure Limit OSHA

PEL

ppm Parts per million

RCRA

Resource Conservation and Recovery Act Superfund Amendments and Reauthorization Act SARA

TLV Threshold Limit Value Toxic Substances Control Act TSCA