

MATERIAL SAFETY DATA SHEET

IODINE TINCTURE
CAROLINA BIOLOGICAL SUPPLY COMPANY

Revised: 09/05/00
Replaces: None
Printed: 22/05/00

1. PRODUCT DESCRIPTION

Product Name: Iodine Tincture
Product Code(s): 86-9121, 86-9123, 84-0520
Size: 100 ml, 500 ml
Chemical Name: Product is a mixture
CAS Number: See section 2
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: Ethanol (CAS#64-17-5) 48%
Iodine (CAS#7553-56-2) 2%
Sodium Iodide (CAS#7681-82-5) 2.4%
Methyl isobutyl ketone (CAS#108-10-1) 4%

TLV and PEL units: Ethanol ACGIH TLV:1000 ppm
OSHA PEL: 1000ppm
Iodine ACGIH TLV: 0.1 ppm
OSHA PEL: 0.1ppm (TWA) ceiling
Methyl isobutyl ketone ACGIH TLV: 50 ppm
OSHA PEL: 50ppm STEL 75ppm

3. HAZARD IDENTIFICATION

Emergency Overview:
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.

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5. FIREFIGHTING PROCEDURES

Flash Point (Method Used): 54 F

NFPA Rating: None established

Extinguisher Media:

Use dry chemical, CO2 or appropriate foam.

Flammable Limits in Air % by Volume: 3.3-19 (ethanol)

Autoignition Temperature: 793 F

Special Firefighting Procedures:

Firefighters should wear full protective equipment and NIOSH-approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Flammable. Vapors are heavier than air and may travel distances to an ignition source and flash back.

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 absorbant and containerize for disposal.

7. SPECIAL PRECAUTIONS

Precautions to be Taken in Handling or Storing: Store away from heat, sparks, and open flame in a tightly closed container.

Other Precautions: Do not ingest.

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): No

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, eye wash, and safety shower.

9. PHYSICAL DATA

Molecular Weight: 500 ml

Melting Point: No information available

Boiling Point: No information available

Vapor Pressure: No information available

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Vapor Density(Air=1): 1.59 (ethanol)
Specific Gravity(H2O=1): No information available
Percent Volatile by Volume: 95%
Evaporation Rate(H2O=1): Grater than 1
Solubility in Water: Completely
Appearance and Odor: Dark brown liquid with fruity odor

10. REACTIVITY DATA

Stability: Stable
Conditions to Avoid: Heat, sparks, open flame
Incompatibility (Materials to Avoid): Oxidizers
Hazardous Decomposition Products: Thermal decomposition may produce carbon dioxide and/or carbon monoxide.
Hazardous Polymerization: Will not occur

11. TOXICITY DATA

Toxicity Data: Ethanol orl-rat LD50: 7060mg/kg
Methyl Isobutyl Ketone orl-rat LD50: 5080mg/kg
Iodine orl-rat LD50: 14g/kg
Sodium Iodide orl-rat LD50: 4340mg/kg

Effects of Overexposure:

Acute: See section 3

Chronic: May cause respiratory problems, headache, nausea, and diarrhea

Breathing vapors may cause drowsiness.

Conditions Aggravated by Overexposure: May cause irritation to eyes, skin, and respiratory tract.

Target Organs: Respiratory

Primary Route(s) of Entry: Ingestion

12. ECOLOGICAL DATA

EPA Waste Numbers: D002 U161

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: Flammable liquids, n.o.s.(ethanol, methyl isobutyl ketone),3,
UN1993, II

15. REGULATORY INFORMATION

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

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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		
Ethanol	No	No	No	No	No
Iodine	No	No	No	No	No
Sodium Iodide	No	No	No	No	No
Methyl Isobutyl Ketone	No	Yes	No	5000	Yes

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