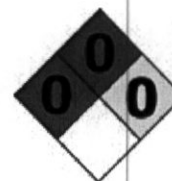


# Material Safety Data Sheet



## ~~Carbol Fuchsin, Ziehl-Neelsen~~

Revised: 01/19/2011  
Replaces: 11/11/2010  
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## Carolina Biological Supply Company

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

**CAROLINA**  
www.carolina.com

### Section 1 - Product Description

**Product Name:** ~~Carbol Fuchsin, Ziehl-Neelsen~~

**Product Code(s):** 85-2703, 85-2705, 17-1145, 89-2281, 89-2285, 89-2305, 15-4708, 15-4708A, 17-1122, 17-1123, 17-1142, 17-1145A, B6010, B6101, B6104, B6107, B6300, BM2010, BM2015, C70442

**Size:** 15 mL, 60 mL, 120 mL, 500 mL

**Chemical Name:** Does not apply

**CAS Number:** See Section 3

**Formula:** See Section 3

**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 800-424-9300 (Transportation Spill Response 24 hours)

### Section 2 - Hazard Identification

**Emergency Overview:** Irritating to eyes and respiratory system. Toxic by inhalation and if swallowed.

**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:** Hexane (Denaturant) (CAS# 110-54-3) 0.1%

Methyl Isobutyl Ketone (Denaturant) (CAS# 108-10-1) 0.4%

Ethanol (CAS# 64-17-5) 9.5%

Phenol (CAS# 108-95-2) 5%

Basic Fuchsin (CAS# 569-61-9) 0.3%

**TLV units:** Hexane: ACGIH-TLV 50 ppm (TWA)

Methyl Isobutyl Ketone: ACGIH-TLV 50 ppm (TWA); 75 ppm (STEL)

Ethanol: ACGIH-TLV 1000 ppm (TWA)

Phenol: ACGIH-TLV 5 ppm (skin) (TWA)

**PEL units:** Hexane: OSHA-PEL 500 ppm (TWA)

Methyl Isobutyl Ketone: OSHA-PEL 100 ppm (TWA)

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, wash immediately with plenty of water.

**Ingestion** - If swallowed, rinse mouth with water (only if the person is conscious). If swallowed, 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 media suitable to extinguish surrounding fire.

**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:** Above flashpoint, explosive vapor-air mixtures may be formed. Risk of explosion if heated under confinement.

## 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:** Keep container tightly closed in a cool, well-ventilated place.

Harmful if swallowed.

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

Avoid contact with skin and eyes.

Do not breathe gas/fumes/vapour/spray.

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

## 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:** N/A

**Boiling Point:** N/A

**Vapor Density(Air=1):** N/A

**Percent Volatile by Volume:** 85%

**Solubility in Water:** Soluble

**Melting Point:** N/A

**Vapor Pressure:** N/A

**Specific Gravity (H<sub>2</sub>O=1):** N/A

**Evaporation Rate (BuAc=1):** N/A

**Appearance and Odor:** Dark Red liquid with alcohol odor

## Section 10 - Reactivity Data

**Stability:** Stable

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

**Incompatibility (Materials to Avoid):** Water-reactive Material, Oxidizers,

**Hazardous Decomposition Products:** NO<sub>x</sub>, HCl, CO<sub>x</sub>,

**Hazardous Polymerization:** Will not occur

## Section 11 - Toxicity Data

**Toxicity Data:** (Hexane) orl-rat LD<sub>50</sub> 25 gm/kg

(Methyl Isobutyl Ketone) orl-rat LD<sub>50</sub> 2080 mg/kg

(Phenol) orl-rat LD<sub>50</sub> 317 mg/kg

(Ethanol) orl-rat LD<sub>50</sub> 7 gm/kg; ihl-rat LC<sub>50</sub> 2000 ppm/10H

(Basic Fuchsin) orl-rbt LDLo 180 mg/kg

**Effects of Overexposure:**

**Acute:** See Section 2

**Chronic:** Certain components or species of this product are considered potential carcinogens. Tumorigenic data cited. Reproductive data cited. Mutation data cited.

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

**Target Organs:** Eyes, Skin, Liver, Kidneys,

**Primary Route(s) of Entry:** N/A

## Section 12 - Ecological Data

**EPA Waste Numbers:** Methyl Isobutyl Ketone U161; Phenol U188

## 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:** Chronic Acute

**Name List:**

Methyl Isobutyl Ketone - Yes  
Hexane - Yes  
Basic Fushin - No  
Phenol - Yes  
Ethanol - Yes

**Chemical Category:**

Phenol - No  
Methyl Isobutyl Ketone - No  
Hexane - No  
Ethanol - No  
Basic Fushin - No

**CERCLA Section 103 RQ(lb.):** Methyl Isobutyl Ketone - 5000

Phenol - 1000  
Ethanol - 5000  
Basic Fuchsin - No  
Hexane - 5000

**RCRA Section 261.33:** Methyl Isobutyl Ketone - Yes

Ethanol - No  
Basic Fuchsin - No  
Hexane - No  
Phenol - Yes

## 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