

CARBOL FUCHSIN. ZIEHL-NEELEN  
CAROLINA BIOLOGICAL SUPPLY COMPANY

## 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  
Size: 15, 60ml, 120ml, 500ml  
Chemical Name: Does not apply  
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: Basic Fuchsin (CAS# 569-61-9) 0.3%  
Phenol (CAS# 108-95-2) 5%  
Ethanol (CAS# 64-17-5) 9.5%  
Methyl Isobutyl Ketone (Denaturant) (CAS# 108-10-1) 0.4%  
Hexane (Denaturant) (CAS# 110-54-3) 0.1%

## TLV and PEL units:

Phenol: ACGIH-TLV 5 ppm(skin)(TWA); OSHA-PEL 5 ppm(skin)(TWA)  
Ethanol: ACGIH-TLV 1000 ppm(TWA); OSHA-PEL 1000 ppm(TWA)  
Methyl Isobutyl Ketone: ACGIH-TLV 50 ppm(TWA), STEL 75 ppm;  
OSHA-PEL 50 ppm(TWA), STEL 75 ppm  
Hexane: ACGIH-TLV 50 ppm(TWA); OSHA-PEL 50 ppm(TWA)

## 3. HAZARD IDENTIFICATION

Emergency Overview: Do not ingest! Harmful if ingested. Inhalation of vapors may be irritating to the eyes, nose and throat. Contains a poisonous substance (Phenol). Tests on laboratory animals indicate Basic Fuchsin may be carcinogenic.

## 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 and induce

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## 4. FIRST AID MEASURES (Cont.)

vomiting immediately as directed by medical personnel. 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 information available

NFPA Rating: None established

Extinguisher Media:

Use media suitable to extinguish surrounding fire.

Flammable Limits in Air % by Volume: No data available

Autoignition Temperature: No information available

Special Firefighting Procedures:

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

Unusual Fire and Explosion Hazards: Due to the low concentration of flammable materials in this product it is unlikely that it will burn. Under conditions of excessive heat and/or pressure, however, the product may evolve sufficient ethanol vapors to be ignitable, or if contained, explosive.

## 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 tightly closed in a cool, dry, well-ventilated area away from incompatible materials. Do not get in eyes, on skin or on clothing. Do not breathe vapors.

Other Precautions: Wash thoroughly after handling. Do not take internally.

## 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:

PVC, Butyl or equivalent

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8. SPECIAL PROTECTION INFORMATION (Cont.)

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## 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.

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9. PHYSICAL DATA

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Molecular Weight: No information available

Melting Point: No information available

Boiling Point: No information available

Vapor Pressure: No information available

Vapor Density(Air=1): No information available

Specific Gravity(H<sub>2</sub>O=1): No information available

Percent Volatile by Volume: 85%

Evaporation Rate(H<sub>2</sub>O=1): No information available

Solubility in Water: Miscible

Appearance and Odor: Deep red liquid with odor of alcohol.

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10. REACTIVITY DATA

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Stability: Stable

Conditions to Avoid: Heat

Incompatibility(Materials to Avoid): Water reactive materials and oxidizers

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide and possibly HCl and NOx

Hazardous Polymerization: Will not occur

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11. TOXICITY DATA

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Toxicity Data: To the best of our knowledge, the toxicological properties of the mixture have not been thoroughly evaluated. Data is listed for individual components.

## Effects of Overexposure:

Acute: See section 3

Chronic: Basic Fuchsin: Mutation data cited. Tumorigenic data cited.

Anticipated to be carcinogenic.

Ethanol: Mutation data cited. Reproductive effects data cited.

Tumorigenic data cited. Not listed as causing cancer by IARC, NTP, or OSHA.

Phenol: Mutation data cited. Reproductive effects data cited. Tumorigenic data cited. Not listed as causing cancer by IARC, NTP, or OSHA.

Methyl Isobutyl Ketone: No chronic effects data found. Not listed as causing cancer by IARC, NTP, or OSHA.

Hexane: Mutation data cited. Reproductive effects data cited. Not listed as causing cancer by IARC, NTP, or OSHA.

Conditions Aggravated by Overexposure: Preexisting conditions of the eyes, skin, kidneys, liver.

Target Organs: Eyes, skin, kidneys, liver.



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MATERIAL SAFETY DATA SHEET

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12. ECOLOGICAL DATA

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

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13. DISPOSAL INFORMATION

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Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations.

Always contact a permitted waste disposer (TSD) to assure compliance.

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14. TRANSPORT INFORMATION

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Non-regulated

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15. REGULATORY INFORMATION

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EPA TSCA Status: The ingredients of this product are all on TSCA Inventory  
Hazard Category for SARA Section 311/312 Reporting: Acute, Chronic

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		
Basic Fuchsin	No	No	No	No	No
Phenol	500	Yes	No	1000	Yes
Ethanol	No	No	No	No	No
Methyl Isobutyl Ketone	No	Yes	No	5000	Yes
Hexane	No	No	No	NO	No

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16. ADDITIONAL INFORMATION

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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

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16. ADDITIONAL INFORMATION (Cont.)

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RCRA.....Resource Conservation and Recovery Act  
SARA.....Superfund Amendments and Reauthorization Act  
TLV.....Threshold Limit Value  
TSCA.....Toxic Substances Control Act