

**MSDS****Material Safety Data Sheet**

AZER SCIENTIFIC

189 Twin County Road • Morgantown, PA 19543 • (610) 524-5810

24 HOUR EMERGENCY  
TELEPHONE NUMBER  
CALL CHEMTREC  
1-800-424-9300

## CARBOL FUCHSIN, KINYOUN MATERIAL SAFETY DATA SHEET

The following information is believed to be correct but is not warranted as such, nor does it purport to be all inclusive.

### Product Identification

**Product Name:** Carbol Fuchsin, Kinyoun  
**Product Code:** ES816, ES817, ES818, ES819, ES855, ES859  
**Product Description:** An aqueous solution of basic fuchsin, phenol and reagent alcohol.

Health	2
Flammability	3
Reactivity	1
Physical Hazard	None

### Section 1 - Shipping Data

**DOT Shipping Name:\*** Alcohol, n.o.s. CC      **Tel. # for information:** (610) 524-5810  
**DOT Hazard Class:** Flammable liquid      **Emergency Tel. #:** (800) 424-9300  
**DOT Identification:** UN 1987      **Prepared by:** P.B.

### Section 2 - Hazardous Ingredients / Identity Information

CHEMICAL COMPONENTS	CAS#	%	OSHA PEL	ACGIH TLV
basic fuchsin	569-61-9	2% w/v	-----	-----
phenol	108-95-2	5% w/v	19 mg/m <sup>3</sup>	19 mg/m <sup>3</sup>
ethanol	64-17-5	22.5% v/v	1000 ppm	1000 ppm
methanol	67-56-1	1.3% v/v	200 ppm (skin)	200 ppm (skin)
isopropanol	67-63-0	1.3% v/v	400 ppm	400 ppm
dimethyl sulfoxide	67-68-5	7% v/v	-----	-----

### Section 3 - Physical / Chemical Characteristics

**Boiling Point:** 94-96° C      **Specific Gravity (H<sub>2</sub>O = 1):** 0.99  
**Vapor Pressure (mm Hg and Temperature):** Not available      **Evaporation Rate ( n-butyl alcohol= 1):** 1  
**Vapor Density (AIR=1):** 3.2      **Solubility in Water:** 100%  
**Appearance and Odor:** A reddish purple solution with the characteristic odor of phenol.

### Section 4 - Fire and Explosion Hazard Data

**Flash Point (Method Used):** 96° F **Flammability Limits:** (for ethanol) LEL 3.3 UEL 19  
**Extinguishing Media:** Alcohol type foam, carbon dioxide or dry chemical  
**Special Fire Fighting Procedures:** Water is ineffective against alcohol fires but may be used to cool adjacent containers.  
**Unusual Fire and Explosive Hazards:** Pyrolysis will release toxic and corrosive phenol vapor.

## Section 5 - Reactivity Data

**Stability:** Stable **Conditions to Avoid:** Heat  
**Incompatibility (Materials to Avoid):** Strong oxidizers.  
**Precautions to be taken in Handling and Storage:** Store at room temperature away from sources of ignition.

## Section 6 - Health Hazard Data

Routes of Entry	Inhalation?	Skin Absorption?	Ingestion?
	yes	yes	yes
Carcinogenicity?	NTP?	IARC Monographs?	OSHA Regulated?
yes	yes	yes	yes

**Health Hazards (Acute and Chronic):** Phenol is absorbed through intact skin and is highly toxic by ingestion, inhalation, or contact. Gastrointestinal effects include: nausea, pain, bloody vomitus and diarrhea. Corrosive to skin and mucous membranes. Methanol is a cumulative poison and death has been reported from ingestion of less than 30 mL. Basic fuchsin is a suspected carcinogen.

**Signs and Symptoms of Exposure:** Tachycardia, tachypnea, weak pulse, cardiac failure, pulmonary edema and respiratory failure.

**Medical Conditions Generally Aggravated by Exposure:** Pulmonary disease and skin disease.

### Emergency and First Aid Procedures:

*Seek medical assistance for further treatment, observation and support if necessary.*

**Eye Contact:** Flush with water at least 15 minutes and get medical attention.

**Skin contact:** Remove contaminated clothing and wash with alcohol or soap and water. Get medical attention if irritation persists.

**Ingestion:** Do not induce vomiting if patient is unconscious or extremely drowsy. Otherwise administer 2 glasses of water and induce vomiting. Get immediate medical attention even if symptoms improve.

## Section 7 - Precautions For Safe Handling and Use

**Steps to be Taken In Case of Spill Or Release:** Absorb with a suitable absorbent (such as a paper towel) and dispose.

**Waste Disposal Methods:** The preferred disposal method is incineration. The amount of phenol and alcohol that can be flushed down the drain is usually restricted. Insure compliance with all government regulations.

## Section 8- Control Measures

**Respiratory Protection (Specify Type):** Generally not required.

**Ventilation:** Laboratory fume hood is recommended for handling phenolic and methanolic solutions.

**Protective Gloves:** Plastic or rubber gloves resistant to phenol.

**Eye Protection:** Laboratory safety goggles or face mask.

**Other Protective Clothing And Equipment:** Lab coats or similar clothing are recommended to protect street clothes.

**Hygienic Work Practices:** Wash well after handling, especially before eating and smoking.

AZER SCIENTIFIC INC. MAKES NO REPRESENTATION AS TO THE COMPREHENSIVENESS OR ACCURACY OF THIS INFORMATION. INDIVIDUALS RECEIVING THIS INFORMATION MUST EXERCISE THEIR INDEPENDENT JUDGMENT IN DETERMINING ITS APPROPRIATENESS FOR A PARTICULAR PURPOSE. ACCORDINGLY, AZER SCIENTIFIC INC. WILL NOT BE RESPONSIBLE FOR DAMAGES OF ANY KIND OR NATURE RESULTING FROM THE USE OF ANY SUCH INFORMATION. NO REPRESENTATIONS OR WARRANTIES OF ANY KIND OR NATURE, INCLUDING BUT NOT LIMITED TO, EXPRESS WARRANTIES, IMPLIED WARRANTIES OF MERCHANTABILITY, OR WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE, ARE MADE HEREUNDER WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR TO THE PRODUCT TO WHICH THE INFORMATION REFERS.