

# FLINN SCIENTIFIC, INC.

## Safety Data Sheet (SDS)

SDS #: 211.00

Revision Date: March 24, 2014

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Carbol Fuchsin Solution

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word **DANGER**

Pictograms



### SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Flammable liquids (Category 2). Highly flammable liquid and vapor (H225). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).

Hazard class: Acute toxicity, oral (Category 4). Harmful if swallowed (H302). Do not eat, drink or smoke when using this product (P270).

Hazard class: Skin and serious eye damage, corrosion or irritation (Category 2, 2A). Causes skin and serious eye irritation (H315+H319).

Hazard class: Specific target organ toxicity, single exposure; respiratory tract irritation (Category 3). May cause respiratory irritation (H335). Avoid breathing mist, vapors or spray (P261).

Hazard class: Specific target organ toxicity, single exposure (Category 1). Causes damage to organs (H370).

Hazard class: Carcinogenicity (Category 2). Suspected of causing cancer (H351). Obtain special instructions before use (P201). Do not handle until all safety precautions have been read and understood (P202). Use personal protective equipment as required (P281).

### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

| Component Name           | CAS Number | Formula                     | Formula Weight | Concentration |
|--------------------------|------------|-----------------------------|----------------|---------------|
| Basic fuchsin            | 569-61-9   | $C_{19}H_{17}N_3 \cdot HCl$ | 323.83         | 0.9%          |
| Ethyl alcohol, denatured | 64-17-5    | $C_2H_5OH$                  | 46.07          | 9%            |
| Phenol                   | 108-95-2   | $C_6H_5OH$                  | 94.11          | 4.5%          |
| Water                    | 7732-18-5  | $H_2O$                      | 18.00          | 85%           |

### SECTION 4 — FIRST AID MEASURES

**If exposed or concerned:** Get medical advice or attention (P308+P313).

**If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

**If on skin:** Wash with plenty of water (P302+P352).

**If swallowed:** Rinse mouth. Call a POISON CENTER or physician if you feel unwell (P302+P301+P312).

### SECTION 5 — FIRE FIGHTING MEASURES

Class IIIA combustible liquid.

Flash point: 62 °C

When heated, releases flammable fumes.

**In case of fire:** Use a tri-class dry chemical fire extinguisher.

NFPA Code

H-1

F-2

R-0

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Remove all ignition sources and ventilate area. Contain the spill with sand or other inert absorbent material and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

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**SECTION 7 — HANDLING AND STORAGE**

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Flinn Suggested Chemical Storage Pattern: Organic #8. Store with phenols and cresols.  
Keep container tightly closed. Store in a cool, dry place. Use only in a hood or well-ventilated area (P271).

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**SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION**

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Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Use only in a hood or well-ventilated area (P271). Will stain skin, clothing, and surfaces.  
Exposure guidelines:(as phenol) PEL/TLV 5 ppm (OSHA, ACGIH) Odor threshold of phenol is 0.04 ppm.

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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Rose to purple liquid. Strong phenol odor. Used to stain acid-fast bacteria.

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**SECTION 10 — STABILITY AND REACTIVITY**

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Avoid heat and sources of ignition. Avoid body contact.  
Shelf life: Indefinite, if stored properly.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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|                                                                          |                                                              |
|--------------------------------------------------------------------------|--------------------------------------------------------------|
| Acute effects: Skin and respiratory irritant. Harmful if swallowed.      | ORL-RAT LD <sub>50</sub> : 317 mg/kg (as phenol)             |
| Chronic effects: Bladder cancer. Basic fuchsin is an IARC-2B carcinogen. | IHL-RAT LC <sub>50</sub> : 316 mg/m <sup>3</sup> (as phenol) |
| Target organs: Bladder, lungs, skin.                                     | SKN-RBT LD <sub>50</sub> : 850 mg/kg (as phenol)             |

N.A. = Not available, not all health aspects of this substance have been fully investigated.

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**SECTION 12 — ECOLOGICAL INFORMATION**

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Data not yet available.

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**SECTION 13 — DISPOSAL CONSIDERATIONS**

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Please review all federal, state and local regulations that may apply before proceeding.  
Flinn Suggested Disposal Method #24a is one option.

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**SECTION 14 — TRANSPORT INFORMATION**

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Shipping name: Ethyl alcohol solution. Hazard class: 3, Flammable liquid. UN number: UN1170.

N/A = Not applicable

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**SECTION 15 — REGULATORY INFORMATION**

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Not listed.

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**SECTION 16 — OTHER INFORMATION**

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Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals.

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