

# Material Safety Data Sheet

## Carbol Fuchsin

ACC# 91760

### Section 1 - Chemical Product and Company Identification

**MSDS Name:** Carbol Fuchsin

**Product Grade :**

**Catalog Numbers:** 39164

**Synonyms:** Carbol Fuchsin Powder

**Company Identification:**

Fisher Scientific

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THERMO ELECTRON LLS INDIA PVT.LTD.

Godrej Coliseum, 101A-101B, Somaiya Hospital Road,

Off Eastern Express Highway, Sion (East), Mumbai-400 022, India

**For information,** call: 022 – 6680 3001/2, **Call India Toll Free** – 1 800 209 7001

**Emergency Number:** 022-66803004/14

**For CHEMTREC assistance,** call: 800-424-9300 [International]

**For International CHEMTREC assistance,** call: 703-527-3887 [International]

### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
108-95-2	Phenol	8.0	203-632-7
4197-24-4	Carbol Fuchsin	Balance	224-086-6

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

Appearance: dark green crystalline powder.

**Danger!** Toxic if absorbed through the skin. Toxic if swallowed. Corrosive. Causes severe eye and skin irritation with possible burns. May cause severe respiratory tract irritation with possible burns. May cause severe digestive tract irritation with possible burns. Light sensitive. May cause liver and kidney damage.

**Target Organs:** Kidneys, liver.

### Potential Health Effects

**Eye:** Causes severe eye irritation and possible burns. May cause chemical conjunctivitis and corneal damage.

**Skin:** Toxic in contact with skin. Causes severe skin irritation and possible burns. May cause skin rash (in milder cases), and cold and clammy skin with cyanosis or pale color.

**Ingestion:** May cause severe and permanent damage to the digestive tract. Poison by ingestion. Causes gastrointestinal tract burns. May cause perforation of the digestive tract. May cause systemic effects.

**Inhalation:** Causes severe irritation of upper respiratory tract with coughing, burns, breathing difficulty, and possible coma. Aspiration may lead to pulmonary edema. May cause systemic effects.

**Chronic:** Prolonged or repeated skin contact may cause dermatitis. May cause liver and kidney damage. May cause cancer according to animal studies. Effects may be delayed.

## Section 4 - First Aid Measures

**Eyes:** Get medical aid immediately. Do NOT allow victim to rub eyes or keep eyes closed. Extensive irrigation with water is required (at least 30 minutes).

**Skin:** Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Destroy contaminated shoes.

**Ingestion:** Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

**Inhalation:** Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

**Notes to Physician:** Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Runoff from fire control or dilution water may cause pollution.

**Extinguishing Media:** Use water fog, dry chemical, carbon dioxide, or regular foam.

**Flash Point:** Not available.

**Autoignition Temperature:** Not available.

**Explosion Limits, Lower:** Not available.



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**Upper:** Not available.

**NFPA Rating:** (estimated) Health: 3; Flammability: 0; Instability: 0

## Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

## Section 7 - Handling and Storage

**Handling:** Use only in a well-ventilated area. Minimize dust generation and accumulation. Do not breathe dust, mist, or vapor. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Do not ingest or inhale. Store protected from light. Discard contaminated shoes.

**Storage:** Keep container closed when not in use. Store protected from light. Store in a cool, dry area away from incompatible substances.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

### Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Phenol	5 ppm TWA; Skin - potential significant contribution to overall exposure by the cutaneous route	5 ppm TWA; 19 mg/m <sup>3</sup> TWA 250 ppm IDLH	5 ppm TWA; 19 mg/m <sup>3</sup> TWA
Carbol Fuchsin	none listed	none listed	none listed

**OSHA Vacated PELs:** Phenol: 5 ppm TWA; 19 mg/m<sup>3</sup> TWA Carbol Fuchsin: No OSHA Vacated PELs are listed for this chemical.



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### Personal Protective Equipment

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

## Section 9 - Physical and Chemical Properties

**Physical State:** Crystalline powder

**Appearance:** dark green

**Odor:** phenol-like

**pH:** Not available.

**Vapor Pressure:** Not available.

**Vapor Density:** Not available.

**Evaporation Rate:** Not available.

**Viscosity:** Not available.

**Boiling Point:** Not available.

**Freezing/Melting Point:** Not available.

**Decomposition Temperature:** Not available.

**Solubility:** Not available.

**Specific Gravity/Density:** Not available.

**Molecular Formula:** Not available.

**Molecular Weight:** Not available.

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable at room temperature in closed containers under normal storage and handling conditions.

**Conditions to Avoid:** Light, dust generation, excess heat.

**Incompatibilities with Other Materials:** Oxidizing agents, strong bases, strong acids.

**Hazardous Decomposition Products:** Hydrogen chloride, nitrogen oxides, carbon monoxide, carbon dioxide.

**Hazardous Polymerization:** Has not been reported

## Section 11 - Toxicological Information



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**RTECS#:**

**CAS#** 108-95-2: SJ3325000

**CAS#** 4197-24-4 unlisted.

**LD50/LC50:**

CAS# 108-95-2:

Draize test, rabbit, eye: 5 mg Severe;  
Draize test, rabbit, skin: 500 mg/24H Severe;  
Draize test, rabbit, skin: 100 mg Mild;  
Inhalation, mouse: LC50 = 177 mg/m<sup>3</sup>;  
Inhalation, mouse: LC50 = 177 mg/m<sup>3</sup>/4H;  
Inhalation, rat: LC50 = 316 mg/m<sup>3</sup>;  
Inhalation, rat: LC50 = 316 mg/m<sup>3</sup>/4H;  
Oral, mouse: LD50 = 270 mg/kg;  
Oral, rat: LD50 = 317 mg/kg;  
Oral, rat: LD50 = 512 mg/kg;  
Skin, rabbit: LD50 = 630 mg/kg;  
Skin, rat: LD50 = 669 mg/kg;  
Skin, rat: LD50 = 1500 mg/kg;

CAS# 4197-24-4:

**Carcinogenicity:**

CAS# 108-95-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS# 4197-24-4: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** No information found

**Teratogenicity:** No information found

**Reproductive Effects:** No information found

**Mutagenicity:** No information found

**Neurotoxicity:** No information found

**Other Studies:**

## Section 12 - Ecological Information

**Ecotoxicity:** Fish: Pseudomonas putida:

## Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as



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a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.

**RCRA U-Series:**

CAS# 108-95-2: waste number U188.

## Section 14 - Transport Information

	US DOT	Canada TDG
<b>Shipping Name:</b>	DOT regulated - small quantity provisions apply (see 49CFR173.4)	No information available.
<b>Hazard Class:</b>		
<b>UN Number:</b>		
<b>Packing Group:</b>		

## Section 15 - Regulatory Information

### US FEDERAL

#### TSCA

CAS# 108-95-2 is listed on the TSCA inventory.

CAS# 4197-24-4 is not listed on the TSCA inventory. It is for research and development use only.

#### Health & Safety Reporting List

CAS# 108-95-2: Effective 6/1/87, Sunset 6/1/97

#### Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

#### Section 12b

None of the chemicals are listed under TSCA Section 12b.

#### TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

#### CERCLA Hazardous Substances and corresponding RQs

CAS# 108-95-2: 1000 lb final RQ; 454 kg final RQ

#### SARA Section 302 Extremely Hazardous Substances

CAS# 108-95-2: 500 lb lower threshold TPQ; 10000 lb upper threshold TP Q

#### SARA Codes

CAS # 108-95-2: immediate, delayed, fire.

#### Section 313

This material contains Phenol (CAS# 108-95-2, 8.0%), which is subject to the



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reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

**Clean Air Act:**

CAS# 108-95-2 is listed as a hazardous air pollutant (HAP).

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

**Clean Water Act:**

CAS# 108-95-2 is listed as a Hazardous Substance under the CWA. CAS# 108-95-2 is listed as a Priority Pollutant under the Clean Water Act. CAS# 108-95-2 is listed as a Toxic Pollutant under the Clean Water Act.

**OSHA:**

None of the chemicals in this product are considered highly hazardous by OSHA.

**STATE**

CAS# 108-95-2 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

CAS# 4197-24-4 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

**California Prop 65**

California No Significant Risk Level: None of the chemicals in this product are listed.

**European/International Regulations**

**European Labeling in Accordance with EC Directives**

**Hazard Symbols:**

T

**Risk Phrases:**

R 34 Causes burns.

R 24/25 Toxic in contact with skin and if swallowed.

**Safety Phrases:**

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 28A After contact with skin, wash immediately with plenty of water

**WGK (Water Danger/Protection)**

CAS# 108-95-2: 2

CAS# 4197-24-4: No information available.

**Canada - DSL/NDSL**

CAS# 108-95-2 is listed on Canada's DSL List.

**Canada - WHMIS**

not available.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

**Canadian Ingredient Disclosure List**

CAS# 108-95-2 is listed on the Canadian Ingredient Disclosure List.



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## Section 16 - Additional Information

**MSDS Creation Date:** 3/13/2001

**Revision #5 Date:** 3/25/2008

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.*