

**Safety Data Sheet**

according to 29CFR1910/1200 and GHS Rev. 3

**Initial preparation date:** : 01.31.2015**Carbol Fuchsin****SECTION 1: Identification of the substance/mixture and of the supplier****Product name:** Carbol Fuchsin**Manufacturer/Supplier Article number:** S25233A**Recommended uses of the product and restrictions on use:** Laboratory Chemicals**Manufacturer Details:**

AquaPhoenix Scientific  
860 Gitts Run Road,  
Hanover, PA 17331  
(717) 632-1291

**Supplier Details:**

Fisher Science Education  
6771 Silver Crest Road, Nazareth, PA 18064  
800 955-1177

**Emergency telephone number:**

Emergency Telephone No.: 800-255-3924

**SECTION 2: Hazards identification****Classification of the substance or mixture:****Irritant**

Acute toxicity (oral, dermal, inhalation), category 4  
Skin irritation, category 2

**Health hazard**

Carcinogenicity, category 2  
Germ cell mutagenicity, category 2  
Specific target organ toxicity following single exposure, category 1  
Specific target organ toxicity following repeated exposure, category 2

**Corrosive**

Serious eye damage, category 1

**Flammable**

Flammable liquids, category 3

Acute Tox. 4 (Oral).

Carc. 2.

Flam. Liq. 3.

Aquatic Acute 3.

Acute Tox. 4 (Inhalation).

Acute Tox. 4 (Dermal).

Eye Dam. 1.

Skin Irrit. 2.

Muta. 2.

STOT RE 2.

STOT SE 1.

**Signal word:** Danger

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Flammable liquid and vapour.  
Harmful if swallowed.  
Harmful in contact with skin.  
Harmful if inhaled.  
Suspected of causing cancer.  
Suspected of causing genetic defects.  
Causes damage to organs.  
May cause damage to organs through prolonged or repeated exposure.  
Causes serious eye damage.  
Causes skin irritation.  
Harmful to aquatic life.

**Precautionary statements:**

If medical advice is needed have product container or label at hand.  
Keep out of reach of children.  
Read label before use.  
Obtain special instructions before use.  
Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/light/equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Avoid release to the environment.  
Do not handle until all safety precautions have been read and understood.  
Use personal protective equipment as required.  
Do not breathe dust/fume/gas/mist/vapors/spray.  
Wash skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Use only outdoors or in a well-ventilated area.  
IF exposed or concerned: Get medical advice/attention.  
Call a POISON CENTER or doctor/physician if you feel unwell.  
Get Medical advice/attention if you feel unwell.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.  
Continue rinsing.  
Immediately call a POISON CENTER or doctor/physician.  
If skin irritation occurs: Get medical advice/attention.  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
Take off contaminated clothing and wash before reuse.  
In case of fire, use agents recommended in section 5 for extinction.  
IF exposed: Call a POISON CENTER or doctor/physician.  
Specific treatment (see supplemental first aid instructions on this label).  
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
Rinse mouth.  
IF ON SKIN: Wash with soap and water.  
Specific measures (see supplemental first aid instructions on this label).  
Wash contaminated clothing before reuse.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Store locked up.  
Store in a well ventilated place. Keep cool.

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Dispose of contents and container to an approved waste disposal plant.

**Other Non-GHS Classification:** None**SECTION 3: Composition/information on ingredients****Ingredients:**

| <b>Ingredients:</b>       |                         |         |
|---------------------------|-------------------------|---------|
| CAS 7732-18-5             | Deionized Water         | 87.38 % |
| CAS 632-99-5              | Fuchsin Basic, Dry Salt | 0.3 %   |
| CAS 67-56-1               | Methanol                | 7.92 %  |
| CAS 108-95-2              | Phenol                  | 4.4 %   |
| Percentages are by weight |                         |         |

**SECTION 4: First aid measures****Description of first aid measures****After inhalation:**

Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Loosen clothing and place exposed in a comfortable position. Seek medical assistance if cough or other symptoms appear.

**After skin contact:**

Wash hands and exposed skin with soap and plenty of water. Seek medical attention if irritation persists or if concerned.

**After eye contact:**

Protect unexposed eye. Flush exposed eye gently using water for 15-20 minutes. Remove contact lenses, if present and easy to do, and continue rinsing. Seek immediate medical assistance.

**After swallowing:**

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention if irritation, discomfort, or vomiting persists.

**Most important symptoms and effects, both acute and delayed:**

Irritation. Shortness of breath. Headache. Nausea. Dizziness.

**Indication of any immediate medical attention and special treatment needed:**

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

**SECTION 5: Firefighting measures****Extinguishing media****Suitable extinguishing agents:**

Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

**Unsuitable extinguishing agents:** None**Special hazards arising from the substance or mixture:**

Thermal decomposition can lead to release of irritating gases and vapors.

**Advice for firefighters:**

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Wear protective eyewear, gloves, and clothing. Refer to Section 8.

**Additional information (precautions):**

Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols. Avoid contact with skin, eyes and clothing.

**SECTION 6: Accidental release measures****Personal precautions, protective equipment and emergency procedures:**

Ensure adequate ventilation. Ensure that air-handling systems are operational. Avoid contact with eyes, skin, and clothing.

**Environmental precautions:**

Should not be released into environment. Prevent from reaching drains, sewer, or waterway.

**Methods and material for containment and cleaning up:**

Wear protective eyewear, gloves, and clothing. Always obey local regulations. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Containerize for disposal. Refer to Section 13. Keep in suitable closed containers for disposal. Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Use non-sparking equipment. Refer to Section 8.

**Reference to other sections:** None**SECTION 7: Handling and storage****Precautions for safe handling:**

Avoid contact with skin, eyes and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Do not eat, drink, smoke, or use personal products when handling chemical substances. Empty containers can still be hazardous since they retain product residue. Do not add water in case of insufficient ventilation. Refer to Section 13.

**Conditions for safe storage, including any incompatibilities:**

Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible materials. Store in secure, flammable storage area away from sources of ignition.

**SECTION 8: Exposure controls/personal protection****Control parameters:**

67-56-1, Methanol., OSHA REL TWA 260 mg/m<sup>3</sup>.  
 67-56-1, Methanol., ACGIH TLV TWA 260 mg/m<sup>3</sup>.  
 108-95-2, Phenol, ACGIH TLV TWA 15 mg/m<sup>3</sup>.  
 108-95-2, Phenol, OSHA REL TWA 15 mg/m<sup>3</sup>.

**Appropriate engineering controls:**

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. Use under a chemical fume hood.

**Respiratory protection:**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved breathing equipment. Use under a chemical fume hood.

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|                                   |   |
|-----------------------------------|---|
| <b>Protection of skin:</b>        | Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear protective clothing. |
| <b>Eye protection:</b>            | Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses or goggles are appropriate eye protection.  |
| <b>General hygienic measures:</b> | Perform routine housekeeping. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Before re-wearing, wash contaminated clothing.   |

**SECTION 9: Physical and chemical properties**

|  |                   |   |  |
|--|-------------------|---|--|
| <b>Appearance (physical state, color):</b> | Opaque red liquid | <b>Explosion limit lower:</b>                   | 4%   |
|  |                   | <b>Explosion limit upper:</b>                   | 20%  |
| <b>Odor:</b>                               | Phenol odor       | <b>Vapor pressure at 20°C:</b>                  | Not determined   |
| <b>Odor threshold:</b>                     | Not determined    | <b>Vapor density:</b>                           | Not determined   |
| <b>pH-value:</b>                           | Not determined    | <b>Relative density:</b>                        | Not determined   |
| <b>Melting/Freezing point:</b>             | Not determined    | <b>Solubilities:</b>                            | Soluble in water.  |
| <b>Boiling point/Boiling range:</b>        | Not determined    | <b>Partition coefficient (n-octanol/water):</b> | Not determined   |
| <b>Flash point (closed cup):</b>           | 47.7 C            | <b>Auto/Self-ignition temperature:</b>          | Not determined   |
| <b>Evaporation rate:</b>                   | Not determined    | <b>Decomposition temperature:</b>               | Not determined   |
| <b>Flammability (solid, gaseous):</b>      | Flammable         | <b>Viscosity:</b>                               | a. Kinematic: Not determined<br>b. Dynamic: Not determined |
| <b>Density at 20°C:</b>                    | Not determined    |   |  |

**SECTION 10: Stability and reactivity****Reactivity:**

Nonreactive under normal conditions.

**Chemical stability:**

Stable under normal conditions.

**Possible hazardous reactions:**

None under normal processing. Vapours may form explosive mixture with air.

**Conditions to avoid:**

Incompatible materials. Excess heat.

**Incompatible materials:**

Strong oxidizers, acids, halogens, and calcium hypochlorite.

**Hazardous decomposition products:**

Carbon dioxide, carbon monoxide, irritating and toxic gases.

**SECTION 11: Toxicological information****Acute Toxicity:**

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LD50: rabbit 17,100 mg/kg Methanol.

**Chronic Toxicity:** No additional information.**Skin corrosion/irritation:**

Phenol Rabbit: Severe irritation -24h.

**Serious eye damage/irritation:**

Phenol Rabbit: Corrosive.

**Respiratory or skin sensitization:** No additional information.**Carcinogenicity:****IARC:** Group 2B: Possibly carcinogenic to humans: Fuschin 632-99-5**Germ cell mutagenicity:**

Phenol:

In vitro tests showed mutagenic effects.

**Reproductive Toxicity:** No additional information.**STOT-single and repeated exposure:** No additional information.**Additional toxicological information:**

No additional information.

**SECTION 12: Ecological information****Ecotoxicity:**Phenol, fish LC50 - *Leuciscus idus* (Golden orfe) - 14.00 - 25.00 mg/l - 48 h.Phenol, invertebrates EC50 - *Daphnia magna* (Water flea) - 56 mg/l - 48 h.Phenol, algae EC50 - *Chlorella vulgaris* (Fresh water algae) - 370.00 mg/l - 96 h.Basic fuchsin, fish LC50 - *Oryzias latipes* - 4.3 mg/l - 48 h.**Persistence and degradability:**

Readily degradable in the environment.

**Bioaccumulative potential:**

Bioaccumulation is expected to be low.

**Mobility in soil:**

No information Available.

**Other adverse effects:** No additional information.**SECTION 13: Disposal considerations****Waste disposal recommendations:**

Contact a licensed professional waste disposal service to dispose of this material. Dispose of empty containers as unused product. Product or containers must not be disposed together with household garbage. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

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**Carbol Fuchsin****SECTION 14: Transport information****US DOT****UN Number:**

ADR, ADN, DOT, IMDG, IATA 1992

**Limited Quantity Exception:**

None

**Bulk:****RQ (if applicable):** None**Proper shipping Name:** Flammable Liquids,  
Toxic, N.O.S. (Ethyl alcohol, phenol solution).**Hazard Class:** 3, 6**Packing Group:** III.**Marine Pollutant (if applicable):** No  
additional information.**Comments:** None**Non Bulk:****RQ (if applicable):** None**Proper shipping Name:** Flammable Liquids,  
Toxic, N.O.S. (Ethyl alcohol, phenol solution).**Hazard Class:** 3, 6**Packing Group:** III.**Marine Pollutant (if applicable):** No  
additional information.**Comments:** None**SECTION 15: Regulatory information****United States (USA)****SARA Section 311/312 (Specific toxic chemical listings):**

Acute, Chronic, Fire

**SARA Section 313 (Specific toxic chemical listings):**

67-56-1 Methanol.

108-95-2 Phenol.

**RCRA (hazardous waste code):**

67-56-1 Methanol - U154.

108-95-2 Phenol - U188.

**TSCA (Toxic Substances Control Act) :**

All ingredients are listed.

**CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):**

67-56-1 Methanol 5000 lbs.

108-95-2 Phenol 1000 lbs.

**Proposition 65 (California):****Chemicals known to cause cancer:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

**Chemicals known to cause developmental toxicity:**

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67-56-1 Methanol.

**Canada****Canadian Domestic Substances List (DSL) :**

All ingredients are listed.

**SECTION 16: Other information**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

**NFPA:** 3-0-0**HMIS:** 3-0-0**GHS Full Text Phrases:** None**Abbreviations and Acronyms:** None