

# Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 10.26.2016

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**Carbol Fuchsin**

## SECTION 1: Identification

### Product identifier

**Product name:** Carbol Fuchsin

**Product code:** S25233A

### Recommended use of the product and restriction on use

**Relevant identified uses:** Laboratory Chemicals

**Uses advised against:** Not determined or not applicable.

**Reasons why uses advised against:** Not determined or not applicable.

### Manufacturer or supplier details

**Manufacturer:**

**United States**

AquaPhoenix Scientific

860 Gitts Run Road

Hanover

PA 17331

(717) 632-1291

**Supplier:**

**United States**

Fisher Science Education

6771 Silver Crest Road

Nazareth

PA 18064

800 955-1177

### Emergency telephone number:

**United States**

Emergency Telephone No.: 800-255-3924

## SECTION 2: Hazard(s) identification

### GHS classification:

Flammable liquids, category 3

Serious eye damage, category 1

Skin irritation, category 2

Acute toxicity (oral), category 4

Acute toxicity (inhalation), category 4

Specific target organ toxicity - single exposure, category 2

Germ cell mutagenicity, category 2

### Label elements

#### Hazard pictograms:



**Signal word:** Danger

### Hazard statements:

H226 Flammable liquid and vapor.

H318 Causes serious eye damage.

H315 Causes skin irritation.

H302 Harmful if swallowed.

H332 Harmful if inhaled.

H371 May cause damage to organs.

H341 Suspected of causing genetic defects.

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### Precautionary statements:

- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P264 Wash skin thoroughly after handling.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P270 Do not eat, drink or smoke when using this product.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P271 Use only outdoors or in a well-ventilated area.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/light/equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P303+P361+P353 If on skin (or hair): Immediately remove/take off all contaminated clothing. Rinse skin with water/shower.
- P304+P340+P312 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.
- P309+P311 If exposed or you feel unwell: Call a poison center or doctor/physician.
- P370+P378 In case of fire: Use agents recommended in section 5 for extinction.
- P305+P351+P338+P310 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.
- P321 Specific treatment (see supplemental first aid instructions on this label).
- P362 Take off contaminated clothing and wash before reuse.
- P302+P352 If on skin: Wash with soap and water.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P301+P330+P312 IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.
- P403+P235 Store in a well ventilated place. Keep cool.
- P405 Store locked up.
- P501 Dispose of contents and container as instructed in Section 13.

**Hazards not otherwise classified:** None

## SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 7732-18-5	Water	87.38
CAS number: 67-56-1	Methanol	7.92
CAS number: 108-95-2	Phenol	4.4
CAS number: 632-99-5	Fuchsin Basic, Dry Salt	0.3

**Additional Information:** None

## SECTION 4: First aid measures

### Description of first aid measures

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### General notes:

Not determined or not applicable.

### After inhalation:

Move to fresh air

Call a POISON CONTROL CENTER or seek medical attention if you feel unwell

### After skin contact:

Wash affected area with soap and water

Seek medical attention if symptoms develop or persist

### After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

Remove contact lens(es) if able to do so during rinsing

Immediately call a POISON CONTROL CENTER or seek medical attention

### After swallowing:

Call a POISON CONTROL CENTER or seek medical attention if you feel unwell

Do not induce vomiting

Rinse mouth and then drink plenty of water

### Most important symptoms and effects, both acute and delayed

#### Acute symptoms and effects:

Not determined or not applicable.

#### Delayed symptoms and effects:

Not determined or not applicable.

### Immediate medical attention and special treatment

#### Specific treatment:

Not determined or not applicable.

#### Notes for the doctor:

Not determined or not applicable.

## SECTION 5: Firefighting measures

### Extinguishing media

#### Suitable extinguishing media:

Use Water (fog only), dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam

#### Unsuitable extinguishing media:

Not determined or not applicable.

### Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

Vapors can flow to distant ignition sources and flashback

Liquid is volatile and may generate an explosive atmosphere

### Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

### Special precautions:

Shut off sources of ignition

Carbon monoxide and carbon dioxide may form upon combustion

Heating causes a rise in pressure, risk of bursting and combustion

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures:

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Ensure adequate ventilation  
Ensure air handling systems are operational  
Wear protective eye wear, gloves and clothing  
Beware of vapors accumulating to form explosive concentrations  
Vapors can accumulate in low areas

### Environmental precautions:

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

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

Wear protective eye wear, gloves and clothing  
Use spark-proof tools and explosion-proof equipment  
Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)  
Dispose of contents / container in accordance with local regulations

### Reference to other sections:

Not determined or not applicable.

## SECTION 7: Handling and storage

### Precautions for safe handling:

Use only with adequate ventilation.  
Avoid breathing mist or vapor.  
Do not eat, drink, smoke or use personal products when handling chemical substances.  
Take precautionary measures against electrostatic discharges.  
Use only non-sparking tools.

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

Keep container tightly sealed.  
Protect from freezing and physical damage.  
Store in a cool, well-ventilated area.  
Store away from all ignition sources (open flames, hot surfaces, direct sunlight, spark sources).

## SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

### Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
United States (OSHA)	Phenol	108-95-2	OSHA PEL TWA 19 mg/m <sup>3</sup> [skin]
	Methanol	67-56-1	OSHA PEL TWA 200 ppm
	Methanol	67-56-1	OSHA PEL TWA 260 mg/m <sup>3</sup>
	Phenol	108-95-2	OSHA PEL TWA 5 ppm [skin]
NIOSH	Phenol	108-95-2	NIOSH REL TWA 19 mg/m <sup>3</sup> [skin]
	Phenol	108-95-2	NIOSH REL C 15.6 ppm [15-minute] [skin]
	Phenol	108-95-2	NIOSH REL C 60 mg/m <sup>3</sup> [15-minute] [skin]
	Methanol	67-56-1	NIOSH REL TWA 200 ppm [skin]
	Methanol	67-56-1	NIOSH REL TWA 260 mg/m <sup>3</sup> [skin]
	Methanol	67-56-1	NIOSH REL ST 250 ppm [skin]
	Methanol	67-56-1	NIOSH REL ST 325 mg/m <sup>3</sup> [skin]

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Phenol	108-95-2	NIOSH REL TWA 5 ppm [skin]
ACGIH	Phenol	108-95-2	ACGIH TLV TWA 5 ppm [skin]
	Methanol	67-56-1	ACGIH TLV STEL 250 ppm [skin]
	Methanol	67-56-1	ACGIH TLV TWA 200 ppm [skin]

### Biological limit values:

No biological exposure limits noted for the ingredient(s).

### Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.

Biological monitoring may also be appropriate for some substances.

### 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 explosion-proof ventilation equipment.

### Personal protection equipment

#### Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

#### Skin and body protection:

Select glove material impermeable and resistant to the substance.

Wear appropriate clothing to prevent any possibility of skin contact.

#### Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

### General hygienic measures:

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and at the end of work.

Wash contaminated clothing before reuse.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance	Opaque red liquid
Odor	Phenol odor
Odor threshold	Not available
pH	Not available
Melting point/freezing point	Not available
Initial boiling point/range	Not available
Flash point (closed cup)	47.7°C
Evaporation rate	Not available
Flammability (solid, gas)	Flammable
Upper flammability/explosive limit	Not available
Lower flammability/explosive limit	Not available

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Vapor pressure	Not available
Vapor density	Not available
Density	Not available
Relative density	Not available
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not available
Auto/Self-ignition temperature	Not available
Decomposition temperature	Not available
Dynamic viscosity	Not available
Kinematic viscosity	Not available
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

### Other information

## SECTION 10: Stability and reactivity

### Reactivity:

Does not react under normal conditions of use and storage.

### Chemical stability:

Stable under normal conditions of use and storage.

### Possibility of hazardous reactions:

None under normal conditions of use and storage.

### Conditions to avoid:

Excess heat, ignition source or flames.

### Incompatible materials:

None known.

### Hazardous decomposition products:

None known.

## SECTION 11: Toxicological information

### Acute toxicity

**Assessment:** Harmful if swallowed Harmful if inhaled

**Product data:** No data available.

### Substance data:

Name	Route	Result
Phenol	oral	LD50 - Mouse - 270 mg/kg
	dermal	LD50 - Rabbit - 630 mg/kg

### Skin corrosion/irritation

**Assessment:** Causes skin irritation

**Product data:** No data available.

### Substance data:

Name	Result
Phenol	Causes severe skin burns and eye damage.

### Serious eye damage/irritation

**Assessment:** Causes serious eye damage

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## Carbol Fuchsin

**Product data:** No data available.

**Substance data:** No data available.

### Respiratory or skin sensitization

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

### Carcinogenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:**

Name	Species	Result
Fuchsin Basic, Dry Salt	(4-(4-aminophenyl)(4-iminocyclohexa-2,5-dienylidene)methyl)-2-methylaniline hydrochloride	Suspected of causing cancer.

### International Agency for Research on Cancer (IARC):

Name	Classification
Phenol	Group 3 - Not classifiable as to its carcinogenicity to humans
Fuchsin Basic, Dry Salt	Group 2B - Possibly carcinogenic to humans

**National Toxicology Program (NTP):** None of the ingredients are listed.

### Germ cell mutagenicity

**Assessment:** Suspected of causing genetic defects

**Product data:** No data available.

**Substance data:**

Name	Result
Phenol	Suspected of causing genetic defects.

### Reproductive toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

### Specific target organ toxicity (single exposure)

**Assessment:** May cause damage to organs

**Product data:** No data available.

**Substance data:**

Name	Result
Phenol	May cause damage to organs through prolonged or repeated exposure.
Methanol	Causes damage to the optic nerve and central nervous system.

### Specific target organ toxicity (repeated exposure)

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

### Aspiration toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

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**Information on likely routes of exposure:** No data available.

**Symptoms related to the physical, chemical and toxicological characteristics:** No data available.

**Other information:** No data available.

### SECTION 12: Ecological information

#### Acute (short-term) toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

#### Chronic (long-term) toxicity

**Product data:** No data available.

**Substance data:** No data available.

#### Persistence and degradability

**Product data:** No data available.

**Substance data:** No data available.

#### Bioaccumulative potential

**Product data:** No data available.

**Substance data:** No data available.

#### Mobility in soil

**Product data:** No data available.

**Substance data:** No data available.

**Other adverse effects:** No data available.


### SECTION 13: Disposal considerations

#### Disposal methods:


It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

### SECTION 14: Transport information

#### United States Transportation of dangerous goods (49 CFR DOT)

<b>UN number</b>	UN 1992
<b>UN proper shipping name</b>	Flammable Liquids, Toxic, N.O.S. (Ethyl alcohol, phenol solution)
<b>UN transport hazard class(es)</b>	6.1 (3) 
<b>Packing group</b>	III
<b>Environmental hazards</b>	None
<b>Special precautions for user</b>	None

#### International Maritime Dangerous Goods (IMDG)

<b>UN number</b>	UN 1992
<b>UN proper shipping name</b>	Flammable Liquids, Toxic, N.O.S. (Ethyl alcohol, phenol solution)
<b>UN transport hazard class(es)</b>	6.1 (3) 
<b>Packing group</b>	III



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<b>Environmental hazards</b>	None
<b>Special precautions for user</b>	None

### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

<b>UN number</b>	UN 1992
<b>UN proper shipping name</b>	Flammable Liquids, Toxic, N.O.S. (Ethyl alcohol, phenol solution)
<b>UN transport hazard class(es)</b>	6.1 (3)  
<b>Packing group</b>	III
<b>Environmental hazards</b>	None
<b>Special precautions for user</b>	None

### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

<b>Bulk Name</b>	None
<b>Ship type</b>	None
<b>Pollution category</b>	None

## SECTION 15: Regulatory information

### United States regulations

#### Inventory listing (TSCA):

108-95-2	Phenol	Listed
632-99-5	Fuchsin Basic, Dry Salt	Listed
7732-18-5	Water	Listed
67-56-1	Methanol	Listed

**Significant New Use Rule (TSCA Section 5):** Not determined.

**Export notification under TSCA Section 12(b):** Not determined.

#### SARA Section 311/312 hazards:

Acute	Chronic	Fire	Pressure	Reactive
No	No	No	No	No

#### SARA Section 302 extremely hazardous substances:

108-95-2	Phenol	Listed
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#### SARA Section 313 toxic chemicals:

108-95-2	Phenol	Listed
67-56-1	Methanol	Listed

#### CERCLA:

108-95-2	Phenol	Listed	1000
67-56-1	Methanol	Listed	5000

#### RCRA:

108-95-2	Phenol	Listed	
67-56-1	Methanol	Listed	

**Section 112(r) of the Clean Air Act (CAA):** Not determined.

#### Massachusetts Right to Know:

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7732-18-5	Water	Not Listed
67-56-1	Methanol	Listed
632-99-5	Fuchsin Basic, Dry Salt	Not Listed
108-95-2	Phenol	Listed

### New Jersey Right to Know:

7732-18-5	Water	Not Listed
67-56-1	Methanol	Listed
632-99-5	Fuchsin Basic, Dry Salt	Not Listed
108-95-2	Phenol	Not Listed

### New York Right to Know:

7732-18-5	Water	Not Listed
67-56-1	Methanol	Listed
632-99-5	Fuchsin Basic, Dry Salt	Not Listed
108-95-2	Phenol	Listed

### Pennsylvania Right to Know:

7732-18-5	Water	Not Listed
67-56-1	Methanol	Listed
632-99-5	Fuchsin Basic, Dry Salt	Not Listed
108-95-2	Phenol	Listed

### California Proposition 65:

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

67-56-1	Methanol
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## SECTION 16: Other information

**Abbreviations and Acronyms:** None

### Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

**NFPA:** 3-2-0

**HMIS:** 3-2-0

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**End of Safety Data Sheet**