# Safety Data Sheet
# CARBOL FUCHSIN

## Section 1 - Chemical Product and Company Identification

**SDS Name:** Carbol Fuchsin
**Catalog Numbers:** SO-490
**Company Identification:** Transene Company, Inc., DBA ROWLEY BIOCHEMICAL, Inc.
10 ELECTRONICS AVENUE
DANVERS, MA 01923
**For information, call:** 978-739-4883
**Emergency Number:** 800-424-9300
**For CHEMTREC assistance, call:** 800-424-9300

## Section 2 - Hazards Identification

### GHS Classifications

H227-Flammable liquids: 4
H303-Acute toxicity, oral: 5
H315-Skin corrosion/irritation: 2
H318-Serious eye damage/eye irritation: 1
H341-Germ cell mutagenicity: 2
H351-Carcinogenicity: 2
H361-Reproductive toxicity: 2
H373-Specific target organ toxicity, repeated exposure: 2
H412-Hazardous to the aquatic environment, chronic toxicity: 3

### Pictograms or Hazard symbols and Hazard statement(s):


Signal word: Danger

### Hazard Statements:

H227-Combustible liquid
H303-May be harmful if swallowed
H315-Causes skin irritation
H318-Causes serious eye damage

H341-Suspected of causing genetic defects
H351-Suspected of causing cancer
H361-Suspected of damaging fertility or the unborn child
H373-May cause damage to organs through prolonged or repeated exposure
H412-Harmful to aquatic life with long lasting effects

## Precautionary Statements:

P201-Obtain special instructions before use.
P202-Do not handle until all safety precautions have been read and understood.
P210-Keep away from flames and hot surfaces. -No smoking.
P260-Do not breathe dust/fume/gas/mist/vapours/spray.
P264-Wash thoroughly after handling.
P273-Avoid release to the environment.
P280-Wear protective gloves/protective clothing/eye protection/face protection.
P281-Use personal protective equipment as required.
P302+P352-If on skin: Wash with plenty of soap and water.
P305+P351+P338-If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313-If exposed or concerned: Get medical advice/attention.
P310-Immediately call a Poison Center or doctor/physician.
P312-Call a Poison Center or doctor/physician if you feel unwell.
P314-Get medical advice/attention if you feel unwell.
P332+P313-If skin irritation occurs: Get medical advice/attention.
P362-Take off contaminated clothing and wash before reuse.
P370+P378-In case of fire: Use dry chemical, carbon dioxide, water spray, or alcohol-resistant foam for extinction.
P403+P235-Store in a well-ventilated place. Keep cool.
P405-Store locked up.
P501-Dispose of contents/container in accordance with local/regional/national/international regulations.

## Section 3 – Composition, Information on Ingredients

| CAS# | Chemical Name | Percent |
|---|---|---|
| 632-99-5 | Basic Fuchsin | 1.0 w/v |
| 64-17-5 | Ethyl Alcohol | 9.5 v/v |
| 67-56-1 | Methyl Alcohol | 0.5 v/v |
| 108-95-2 | Phenol | 1.1 v/v |
| 7732-18-5 | Water | Balance |

## Section 4 - First Aid Measures

**Eye Exposure:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. See immediate medical attention.

**Dermal Exposure:** In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Seek medical attention.

**Oral Exposure:** If swallowed, seek immediate medical advice. Rinse mouth. Do NOT induce vomiting.

**Inhalation Exposure:** If inhaled, remove to fresh air. Seek medical attention.

## 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 gases may be generated through thermal decomposition or combustion.

**Extinguishing Media:** Use dry chemical, carbon dioxide, water spray, or alcohol-resistant foam.

**Hazardous Combustion Products:** Carbon oxides, nitrogen oxides, hydrogen chloride gas, irritating toxic fumes and gases.

**Flash Point:** Not available
**Autoignition Temperature:** Not available
**Explosion Limits, Lower:** Not available
**Upper:** Not available
**NFPA Rating:** (estimated) Health: 2; Flammability: 2; Instability: 0

## Section 6 - Accidental Release Measures

**Procedure(s) of Personal Precaution(s):**
Wear personal protective equipment. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Ensure adequate ventilation.

**Methods for Cleaning up:** Absorb with sand, earth, or vermiculite. Carefully sweep up and containerize for proper disposal. Do not release to the environment. Do not release to drains.

## Section 7 - Handling and Storage

Use care when handling. Wear personal protective equipment. Ensure adequate ventilation. Wash thoroughly after handling. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Store in a tightly closed container in a cool, dry, and well-ventilated area. Keep away from heat, sparks, open flame, or other ignition sources. Use explosion-proof equipment and non-sparking tools. Take precautionary measures against static discharges. Keep away from incompatible materials.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

**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 a respirator's use.

**Exposure Limits:**

| Chemical Name | ACGIH | NIOSH | OSHA - Final PELs |
|---|---|---|---|
| Basic Fuchsin<br>CAS#632-99-5 | Not listed | Not listed | Not listed |
| Ethanol<br>CAS#64-17-5 | 1000 ppm STEL | 1000 ppm TWA<br>1900 mg/m3 TWA<br>3300 ppm IDLH | 1000 ppm TWA<br>1900 mg/m3 TWA |
| Methanol<br>CAS#67-56-1 | 200 ppm TWA<br>250 ppm STEL | 200 ppm TWA<br>260 mg/m3 TWA<br>250 ppm STEL<br>325 mg/m3 STEL<br>6000 ppm IDLH | 200 ppm TWA<br>260 mg/m3 TWA<br>250 ppm STEL<br>325 mg/m3 STEL |
| Phenol<br>CAS#108-95-2 | 5 ppm Skin TWA | 5 ppm TWA<br>19 mg/m3 TWA<br>15.6 ppm Ceiling<br>60 mg/m3 Ceiling<br>250 ppm IDLH | 5 ppm TWA<br>19 mg/m3 TWA |

**OSHA Vacated PELs:** Ethanol: 1000 ppm TWA; 1900 mg/m3 TWA
Methanol: 200 ppm TWA; 260 mg/m3 TWA; 250 ppm STEL; 325 mg/m3 STEL
Phenol: 5 ppm TWA; 19 mg/m3 TWA

## Section 9 - Physical and Chemical Properties

**Physical State:** Liquid
**Appearance:** Purple-Red
**Odor:** Pungent. Phenolic.
**Vapor Pressure:** Not available
**Odor Threshold:** Not available
**Vapor Density:** Not available

**pH:** Not available
**Relative Density:** Not available
**Melting point/freezing point:** Not available
**Solubility:** Soluble in water
**Boiling Point:** Not available
**Flash Point:** Not available
**Evaporation Rate:** Not available
**Flammability (solid, gas):** Not available
**Partition co-efficient: n-octanol/water:** Not available
**Autoignition temperature:** Not available
**Decomposition temperature:** Not available
**Viscosity:** Not available
**Specific Gravity/Density:** Not available

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.
**Conditions to Avoid:** Incompatible materials, ignition sources, excess heat.
**Incompatibilities with Other Materials:** Strong oxidizing agents, bases, acids, strong reducing agents, alkali metals, ammonia, hydrazine, peroxides, sodium, acid anhydrides, calcium hypochlorite, chromyl chloride, nitrosyl perchlorate, bromine pentafluoride, perchloric acid, silver nitrate, mercuric nitrate, potassium-tert-butoxide, magnesium perchlorate, acid chlorides, platinum, uranium hexafluoride, silver oxide, iodine heptafluoride, acetyl bromide, disulfuryl difluoride, tetrachlorosilane + water, acetyl chloride, permanganic acid, ruthenium (VIII) oxide, uranyl perchlorate, potassium dioxide, halogens, lead, and metals.
**Hazardous Decomposition Products:** Carbon oxides, nitrogen oxides, hydrogen chloride gas, irritating toxic fumes and gases.

## Section 11 - Toxicological Information

**CAS#632-99-5 Basic Fuchsin: RTECS#: CX9850000**
LD50 Oral: 5000 mg/kg (mouse)
LD50 Dermal: Not available
LC50 Inhalation: Not available

**Carcinogenicity:** Basic Fuchsin CAS#632-99-5 is not listed by NTP, ACGIH, OSHA, or California Prop 65. Basic Fuchsin is listed by IARC (Group 2B, Possibly Carcinogenic to Humans).

**CAS#64-17-5 Ethyl Alcohol: RTECS#: KQ6300000**
LD50 Oral: 7060 mg/kg (rat)
LD50 Dermal: Not available
LC50 Inhalation: 20000 ppm (rat) 10h

Draize test, rabbit, eye: 500 mg Severe.
Draize test, rabbit, eye: 500 mg/24H Mild.
Draize test, rabbit, skin: 20 mg/24H Moderate.

**Carcinogenicity:** Ethyl Alcohol CAS#64-17-5 is listed by IARC (Group 1, Carcinogenic to Humans), NTP, and ACGIH (A3, Animal Carcinogen). Ethyl Alcohol is listed by California Prop. 65 as a developmental carcinogen (alcoholic beverages).

**CAS#67-56-1 Methyl Alcohol: RTECS#: PC1400000**
LD50 Oral: 6200 mg/kg (rat)
LD50 Dermal: 15800 mg/kg (rabbit)
LC50 Inhalation: 64000 ppm (rat) 4h

**Carcinogenicity:** Methyl Alcohol CAS#67-56-1 is not listed by the IARC, NTP, ACGIH, or OSHA. Methyl Alcohol is listed by California Prop. 65 as a developmental carcinogen.

**CAS#108-95-2 Phenol:**
LD50 Oral: 340 mg/kg (rat)
LD50 Dermal: 630 mg/kg (rabbit)
LC50 Inhalation: 0.5667 mg/L -dust/mist (calculation method)

**Carcinogenicity:** Phenol CAS#108-95-2 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop 65.

**Mutagenic Effects:** Possible risk of irreversible effects.
**Reproductive Effects:** Experiments with Phenol have shown reproductive toxicity effects on laboratory animals.
**Developmental Effects:** Not available
**Teratogenicity:** Not available
**Specific Organ Toxicity, Single Exposure:** Respiratory system, central nervous system, and optic nerve.
**Specific Organ Toxicity, Repeated Exposure:** Kidney, liver, and blood.

**The toxicological properties of this material have not been thoroughly investigated.**

## Section 12 - Ecological Information

**Ecotoxicity:** Do not release to the environment. Do not release to drains. Harmful to aquatic life with long lasting effects.

**CAS#64-17-5 Ethyl Alcohol:**
EC50, freshwater algae: 275 mg/L 72h (chlorella vulgaris)
LC50, freshwater fish: 14200 mg/L 96h (pimephales promelas)(fathead minnow)
EC50, water flea: 9268 mg/L 48h, 10800 mg/L 24h
EC50, water flea: 10800 mg/L 24h
IC50, bacteria: >1000 mg/L 3h (activated sludge)
EC50, microtox: 34634 mg/L 30min (photobacterium phosphoreum)
EC50, microtox: 35470 mg/L 5min (photobacterium phosphoreum)

**CAS#67-56-1 Methyl Alcohol:**
LC50, freshwater fish: >10000 mg/L 96h (pimephales promelas)(fathead minnow)

EC50, water flea: >10000mg/L 24h
ErC50, algae: 22000 mg/L 96h (pseudokirchneriella subcapitata)(green algae)
IC50, bacteria: >1000 mg/L 3h (activated sludge)
EC50, microtox: 39000 mg/L 25min
EC50, microtox: 40000 mg/L 15min
EC50, microtox: 43000 mg/L 5min

**CAS#108-95-2 Phenol:**
LC50, freshwater fish: 4-7 mg/L 96h
LC50, freshwater fish: 32 mg/L 96h
EC50, freshwater algae: 0.0188-0.1044 mg/L 96h static (pseudokirchneriella subcapitata)
EC50, freshwater algae: 187-279 mg/L 72h static (desmodesmus subspicatus)
EC50, freshwater algae: 46.42 mg/L 96h (pseudokirchneriella subcapitata)
EC50, water flea: 10.2-15.5 mg/L 48h (daphnia magna)
EC50, water flea: 4.24-10.7 mg/L 48h static (daphnia magna)
EC50, microtox: 21-36 mg/L 30min
EC50, microtox: 25.61 mg/L 15min
EC50, microtox: 23.28 mg/L 5min

**Persistence and degradability:** Not available
**Bio-accumulative potential:** Not available
**Mobility:** Will likely be mobile in the environment due to its water solubility.

## Section 13 - Disposal Considerations

**DISPOSAL:** Dispose of in accordance with all federal, state, and local regulations.

## Section 14 – Transport Information

**DOT**
Non-Regulated

## Section 15 - Regulatory Information

**Canada Regulatory Information**

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all the information required by the CPR.

## Section 16 - Additional Information

**SDS Creation Date:** 1/18/11
**Revision #1.** 2-5-15 RC
**Revision #2.** 5-11-20
**Revision #3.** 7-15-22

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