

Material Safety Data Sheet

# KINYOUN'S CARBOL FUCHSIN SOLUTION

## Section 1 - Chemical Product and Company Identification

**MSDS Name:** Kinyoun's Carbol Fuchsin Solution

**Catalog Numbers:** A-101-1, J-608-1, SO-359

**Company Identification:** ROWLEY BIOCHEMICAL  
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

#### Health Hazards

H302 **Acute Oral Toxicity:** 4

H312 **Acute Dermal Toxicity:** 4

H332 **Acute Inhalation Toxicity:** 4

H315 **Skin Corrosion/Skin Irritation:** 2

H319 **Eye damage/Irritation:** 2A

H334 **Respiratory Sensitization:** 1B

H317 **Skin Dermal Sensitization:** 1B

H341 **Germ Cell Mutagenicity:** 2

H351 **Carcinogenicity:** 2

H361 **Reproductive Toxicity:** 2

H373 **Specific Target Organ Toxicity:** 2

#### Physical Hazards:

H225-Flammability: 2

#### Environmental Hazards:

H402 Acute Aquatic environmental hazards: 3

Chronic environmental hazards: Not Classified

**Pictograms or Hazard symbols and Hazard statement.**



Warning! Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction



Danger: Highly flammable liquid and vapour.



Danger! May cause allergy or asthma symptoms or breathing difficulties if inhaled. Warning! Suspected of causing genetic effects. Mutagenic for mammalian somatic cells. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to the following organs: kidneys, liver, central nervous system (CNS), blood, spleen, thyroid, upper respiratory tract, reproductive system, optic nerve and brain through prolonged or repeated exposure.

Harmful to aquatic life

## Precautionary Statements

### H302

**P264** Wash thoroughly after handling

**P270** Do not eat, drink, or smoke when using this product.

**P301 + P312** If swallowed, call a physician if you feel unwell.

**P330** Rinse mouth.

**P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

### H312

**P280** Wear protective gloves, clothing, and eye and face protection.

**P302 + P352** If on skin, wash with plenty of water. Remove contact lenses if present and easy to do so. Continue rinsing.

**P312** Call a physician if you feel unwell.

**P363** Wash contaminated clothing before reuse.

### H332

**P261** Avoid breathing fumes/mist/vapors.

**P271** Use only outdoors or in a well-ventilated area.

**P304 + P340** If inhaled, remove person to fresh air and keep comfortable for breathing.

**H315**

**P264** Wash thoroughly after handling

**P332 + P313** If skin irritation occurs, get medical advice/attention.

**P362** Take off contaminated clothing and wash before reuse

**H319**

**P305 + P351 + P338** If in eyes, rinse cautiously with water for several minutes.

H225

**P210** Keep away from heat, flames, and hot surfaces. No smoking.

**P233** Keep container tightly closed.

**P241** Use explosive-proof equipment.

**P242** Use only non-sparking tools.

**P243** Take precautionary measures against static discharge.

**P280** Wear protective gloves, clothing, and eye and face protection.

**P303 + P361 + P353** If on skin (or hair) take off immediately all contaminated clothing. Rinse skin with water.

**P370 + P378** In case of fire use ..... to extinguish.

**P403 + P235** Store in a well-ventilated place. Keep cool.

**P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

**P337 + P313** If eye irritation persists, get medical advice/attention.

**H334**

**P285** In case of inadequate ventilation, wear respiratory protection.

**P304 + P341** IF INHALED: if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

**P342 + P311** if experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

**H317**

**P272** Contaminated work clothing should not be allowed out of the work place.

**P333 + P313** IF ON SKIN: Wash with plenty of soap and water

**P405** Store locked up

**H341 + H351 + H361**

**P201** Obtain special instructions before use

**P202** Do not handle until all safety precautions have been read and understood

**P281** Use personal protective equipment as required

**P308 + P313** If exposed or concerned, get medical advice/attention.

**H373**

**P260** Do not breathe fume/gas/mist/vapors.

**P314** Get medical advice/attention if you feel unwell

**H402**

**P273** Avoid release to the environment

Warning! Harmful if swallowed, in contact with skin and inhaled. **Causes skin irritation. Causes serious eye irritation.** May cause an allergic skin reaction. May cause allergic reaction or breathing difficulties if inhaled. Avoid contact with skin, eyes and clothing. Do not breathe vapors; use with adequate ventilation. WARNING! Phenol & Basic Fuchsin are **CANCER SUSPECT AGENTS!** Suspected of damaging fertility, the unborn child and of causing genetic defects. Avoid all routes of exposure!

### Section 3 – Composition, Information on Ingredients

CAS#	Chemical Name	Percent
632-99-5	Basic Fuchsin	3.1 w/v
64-17-5	Ethyl Alcohol	14.7 v/v
67-56-1	Methyl Alcohol	0.7 v/v
108-95-2	Phenol	6.25 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. Call a physician.

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

**Oral Exposure:** If Swallowing seek immediate medical advice.

**Inhalation Exposure:** If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

### Section 5 - Fire Fighting Measures

**NFPA** HEALTH 1 FLAMMABILITY 2 REACTIVITY 0

Firefighters should wear proper protective clothing and self contained breathing apparatus with full piece operated in positive pressure mode to prevent contact with skin and eyes. Water may be ineffective in fighting fire. Use water spray to keep for exposed containers cool.

**Extinguishing Media:** Use water spray, dry chemical powder, or appropriate foam.

**Flash Point:** N/A

**Auto ignition Temperature:** N/A

**Explosion Limits:** N/A

**Upper:** N/A

### Section 6 - Accidental Release Measures

**Procedure(s) of Personal Precaution(s):**

Wear protective gear.

**Methods for Cleaning up:** Absorb with sand, earth or vermiculite. Carefully sweep up and containerize for proper disposal.

#### Section 7 - Handling and Storage

Use care when handling. Wash thoroughly after handling. Store capped at room temperature. Keep away from incompatible materials.

#### Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:**

Mechanical exhaust

**Personal Protective Equipment:**

Other: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

#### Section 9 - Physical and Chemical Properties

**Physical State:** Liquid

**Appearance:** purplish-Red

**pH:** N/A

**Water.**

**Vapor Pressure:** 2.3 kPa @ 20deg. C

**Vapor Density:** 0.62 (Air=1)

**Evaporation Rate:** N/A

**Viscosity:** N/A

**Boiling Point:** 100 deg. C

**Solubility:** N/A

#### Section 10 - Stability and Reactivity

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

**Hazardous Decomposition Products:** not known

**Hazardous Polymerization:** Will not occur.

#### Section 11 - Toxicological Information

**RTECS#:**

RTECS: CX9850100: CAS# 632-99-5 Basic Fuchsin: Oral (LD50): Acute: 5000mg/kg [Mouse]  
LC50: None Listed; ; investigated as a mutagen  
RTECS: SJ3325000: CAS# 108-95-2 Phenol: Oral(LD50): Acute: 317mg/kg [Rat]. 270mg/kg [Mouse]. Dermal (LD50): Acute: 630mg/kg[Rabbit].  
LC50: None Listed; investigated as a mutagen, reproductive effector.  
RTECS:KQ6300000: CAS# 64-17-5 Ethyl Alcohol: Oral(LD50): 7060mg/kg [Rat]. 3450mg/kg [Mouse].  
Vapor (LC50): Acute: 20000ppm 8 hours [Rat] 39000mg/m 4 hours [Mouse]; investigated as a mutagen, reproductive effector  
RTECS:PC1400000: CAS# 67-56-1 Methyl Alcohol: Oral(LD50): Acute: 5628mg/kg [Rat]. Dermal (LD50): Acute: 15800mg/kg [Rabbit].  
Vapor (LC50): Acute: 64000ppm 4hours [Rat]; investigated as a mutagen, reproductive effector.

### **Carcinogenicity:**

CAS# 632-99-5: Basic Fuchsin: Not listed by ACGIH, NTP or CA Prop 65. Classified group 2B carcinogen by IARC  
CAS# 108-95-2: Phenol: Not listed by ACGIH, NTP, or CA Prop 65. Classified group 2B carcinogen by IARC  
CAS# 64-17-5 Ethyl Alcohol: Not listed by ACGIH, NTP, IARC or CA Prop 65  
CAS# 67-56-1 Methyl Alcohol: Not listed by ACGIH, NTP, IARC or CA Prop 65

### **Route of exposure:**

**Multiple routes:** May be harmful by inhalation, ingestion, or skin absorption. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Basic Fuchsin and Phenol are cancer suspect agents.

Section 12 - Ecological Information
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### **Ecotoxicity:**

CAS# 632-99-5: Basic Fuchsin: Not Available  
CAS# 108-95-2: Phenol: Ecotoxicity in water (LC50): 125mg/l 24 hours [Fish (Goldfish)]. >50mg/l 1 hours [Fish (Fathead minnow)]. >50mg/l 24 hours [Fish (Fathead minnow)]. >33mg/l 72 hours [(Fathead minnow)]. >33ppm 96 hours [Fish (Fathead minnow)].  
CAS# 64-17-5 Ethyl Alcohol: 14000 mg/l 96 hours [Rainbow trout]. 11200 mg/l 24 hours [fingerling trout].  
CAS# 67-56-1 Methyl Alcohol: 29400 mg/l 96 hours [Fathead minnow].

### **Products of Biodegradation:**

Possibly hazardous short term degradation products are not likely. However, long term degradation are less toxic than the product itself.

Section 13 - Disposal Considerations
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### **Appropriate method of disposal of substance or preparation:**

Handled as hazardous waste and sent to an RCRA approved incinerator or disposed in an RCRA approved wasted facility.

## Section 14 – Transport Information

### **DOT**

Proper shipping name: Alcohols, N.O.S.

UN1987

PG II

Hazard class 3 (flammable)

## 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 MSDS contains all the information required by the CPR.

### **European/International Regulations**

#### **European Labeling in Accordance with EC Directives**

#### **Risk Phrases:**

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed

R36/38 Irritating to eyes and skin

R45 May cause cancer

R42/43 May cause sensitization by inhalation and skin contact

R48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed

R61 May cause damage to the unborn child

R52 Harmful to aquatic organisms

#### **Safety Phrases:**

S3/7/9 Keep container closed in a cool, well-ventilated place

S24/25 Avoid contact with skin and eyes

S20/21 When using do not eat, drink or smoke

S2 Keep out of the reach of children.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S28 After contact with skin, wash immediately with plenty of soap and water

S37/39 Wear suitable gloves and eye/face protection

S29/35 Do not empty into drains; dispose of this material and its container in a safe way

## Section 16 - Additional Information

**MSDS Creation Date:** 1/18/11

**Revision #1** 10/10/13 MH

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