

Material Safety Data Sheet
ZIEHL-NEELSEN CARBOL FUCHSIN

Section 1 - Chemical Product and Company Identification

MSDS Name: Ziehl-Neelsen Carbol Fuchsin

Catalog Numbers: A-100-1, A-103-1 & SO-471, MX-103-1

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:

Not Classified

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



Harmful to aquatic life



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.

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

H402

P273 Avoid release to the environment.

Section 3 – Composition, Information on Ingredients

CAS#	Chemical Name	Percent
632-99-5	Basic Fuchsin	0.9 w/v
64-17-5	Ethyl Alcohol	8.25
67-56-1	Methyl Alcohol	0.43 v/v
108-95-2	Phenol	4.3 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 0 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: Fuchsin

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

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

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

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 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

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 Rowley Biochemical, Inc. 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 Rowley Biochemical, Inc. has been advised of the possibility of such damages.