ISO9001:2000 Certified

Material Safety Data Sheet

Carbol-fuchsin solution

Section 1 - Chemical Product and Company Identification

MSDS Name:

Carbol-fuchsin solution

Catalog Numbers:

LC12880

Synonyms:

Company Identification:

LabChem, Inc.
200 William Pitt Way
Pittsburgh, PA 15238

Company Phone Number:

(412) 826-5230

Emergency Phone Number:

(800) 424-9300

CHEMTREC Phone Number:

(800) 424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7732-18-5	Water	balance
569-61-9	C.i. basic red 9 monohydrochloride	4
64-17-5	Ethyl alcohol	18
108-95-2	Phenol	14
67-56-1	Methyl alcohol	1
67-63-0	Isopropyl alcohol	1

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: Dark green
Warning! May be harmful if absorbed through the skin. Harmful or fatal if swallowed. May cause irritation by all exposure routes. May cause blindness if swallowed.
Target Organs: None known.

Potential Health Effects

Eye:

May cause severe eye irritation. May cause blindness.

Skin:

Rapidly absorbed, produces painless erythema, sweating, thirst, nausea, vomiting, diarrhea, stupor, excitation, cyanosis, hypotension, collapse, coma, convulsions, hemolysis, pulmonary edema; death can occur from respiratory failure. Liver and kidney damage results in jaundice, oliguria, anuria.

Ingestion:

Harmful if swallowed. Can burn mouth and throat; causes profuse sweating, intense thirst, nausea, vomiting, diarrhea, cyanosis, hypotension, pain, convulsions, coma. 1 gram may be a fatal adult dose. Ingestion can be fatal, symptoms of hypoglycemia, convulsions, shock, tachycardia, hypotension, vertigo, diplopia, pupil dilation.

Inhalation:

Causes irritation of the mucous membranes. Vapors may irritate the nose, throat, produce coughing with toxic amounts producing vomiting, coma, convulsions. Phenol - although volatility is low (thus low industrial hazard), IDLH level is only 100ppm. May cause nasal irritation, cough; high levels cause feeling of suffocation, central nervous system depression (drunkenness). May cause narcosis, CNS depression leading to respiratory/circulatory failure, pain, blindness, coma, kidney/liver damage, cyanosis, edema, death.

Chronic:

Methanol -- blurred or painful vision, conjunctivitis; possible mutagenic or reproductive effects.
Phenol-- prolonged inhalation may cause general weakness, liver and kidney damage. Basic fuchsin-known animal carcinogen. Anticipated human carcinogen. Dermatitis, conjunctivitis (with permanent or temporary visual impairment), optic neuritis, pain and atrophy. Weight loss, cirrhosis, gastroenteritis, amnesia, tremors, acute myopathy, muscular edema and degeneration occur from long term exposure.

Section 4 - First Aid Measures

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once.

Skin:

Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes.

Ingestion:

Get medical aid at once. Remove by gastric lavage and emesis using tap water, warm water, or 3-5% sodium bicarbonate solution unless 2 or more hours have passed. Syrup of ipecac may be given promptly following ingestion.

Inhalation:

Give artificial respiration if necessary. Get medical aid. Keep victim warm, at rest. Move victim to fresh air.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:

Avoid breathing vapors, use approved respirator if necessary. Move container if possible, cool with flooding amounts of water. Vapors heavier than air, may travel considerable distance and flash back from source of ignition. Move container if possible, avoid breathing vapors or dust. Slight fire hazard when exposed to heat or flame.

Extinguishing Media:

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

Autoignition Temperature:

No information found.

Flash Point:

No information found.

NFPA Rating:

CAS# 7732-18-5: Not published.
CAS# 569-61-9: Not published.
CAS # 64-17-5 health-0; flammability-3; reactivity-0
CAS # 108-95-2 health-4; flammability-2; reactivity-0
CAS # 67-56-1 health-1; flammability-3; reactivity-0
CAS # 67-63-0 health-1; flammability-3; reactivity-0

Explosion Limits:

Lower: Upper:

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spill using an absorbent, non-combustible material such as earth, sand, diatomaceous earth, vermiculite, or other suitable absorbent. Scoop material into suitable (plastic or glass) container, label for disposal. Shut off ignition source, avoid vapors. Isolate, ventilate spill area. Water may be used to reduce vapor hazard - keep out of sewers and drains, vapors explosive, may ignite.

Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Avoid breathing dust, vapor, mist, or gas.

Storage:

Keep away from incompatible materials. Store capped as a flammable liquid in safety cabinet or vault that is ventilated.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Provide local exhaust or general dilution ventilation.

Exposure Limits

Chemical Name:	ACGIH	NIOSH	OSHA
Water	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
C.i. basic red 9 monohydrochloride	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Ethyl alcohol	1000 ppm TWA	1000 ppm TWA; 1900 mg/m3 TWA	1000 ppm TWA; 1900 mg/m3 TWA;
Phenol	5 ppm TWA;skin - potential for cutaneous absorption	5 ppm TWA; 19 mg/m3 TWA	5 ppm TWA; 19 mg/m3 TWA; prevent or reduce skin absorption;
Methyl alcohol	200 ppm TWA;250 ppm STEL;skin - potential for cutaneous absorption	200 ppm TWA; 260 mg/m3 TWA	200 ppm TWA; 260 mg/m3 TWA;

Isopropyl alcohol	(400 ppm) TWA;(500ppm) STEL	400 ppm TWA; 980 mg/m3 TWA	400 ppm TWA; 980 mg/m3 TWA;

OSHA Vacated PELs

Ethyl alcohol: 1000 ppm TWA; 1900 mg/m3 TWA
Phenol: 5 ppm TWA; 19 mg/m3 TWA
Methyl alcohol: 200 ppm TWA; 260 mg/m3 TWA
Isopropyl alcohol: 400 ppm TWA; 980 mg/m3 TWA

Personal Protective Equipment

Eyes:

Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear splash-proof safety goggles.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Not required for normal use. Firefighting-- any self-contained breathing apparatus with full facepiece operated in pressure-demand mode. High Levels- CCROV/SAR/SCBA. Firefighting- SCBAF:PP,PD. (Respirator Codes: DHEW (NIOSH) Publication No. 78-210).

Section 9 - Physical and Chemical Properties

Physical State:	Liquid
Color:	Dark green
Odor:	Characteristic pungent alcohol odor
pH:	Acidic
Vapor Pressure:	No information found.
Vapor Density:	No information found.
Evaporation Rate:	No information found.
Viscosity:	No information found.
Boiling Point:	No information found.
Freezing/Melting Point:	No information found.
Decomposition Temperature:	No information found.
Solubility in water:	Soluble.
Specific Gravity/Density:	No information found.
Molecular Formula:	No information found.
Molecular Weight	No information found.

Section 10 - Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials.

Incompatibilities with Other Materials

Strong oxidizing agents, alkalies.

Hazardous Decomposition Products

Oxides of nitrogen, oxides of carbon.

Hazardous Polymerization

Has not been reported

Section 11 - Toxicological Information

RTECS:

CAS# 7732-18-5: ZC0110000.
CAS# 569-61-9: CX9850100.
CAS# 64-17-5: KQ6300000.
CAS# 108-95-2: SJ3325000.
CAS# 67-56-1: PC1400000.
CAS# 67-63-0: NT8050000.

LD50/LC50:

CAS# 7732-18-5:
Oral, rat: LD50 = >90 mL/kg.
CAS# 569-61-9:
Dermal, guinea pig: LD50 > 1g/kg
Oral, mouse: LD50 = 5 gm/kg
Oral, rat: LD50 = 3200 mg/kg.
CAS# 64-17-5:
Inhalation, mouse: LC50 =39 gm/m3/4H
Inhalation, rat: LC50 =20000 ppm/10H
Oral, mouse: LD50 = 3450 mg/kg
Oral, rabbit: LD50 = 6300 mg/kg
Oral, rat: LD50 = 7060 mg/kg.
CAS# 108-95-2:
Inhalation, mouse: LC50 =177 mg/m3
Inhalation, rat: LC50 =316 mg/m3
Oral, mouse: LD50 = 270 mg/kg
Oral, rat: LD50 = 317 mg/kg
Skin, rabbit: LD50 = 850 mg/kg

Carcinogenicity:

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.
CAS# 569-61-9
ACGIH: Not listed.
California: carcinogen; initial date 7/1/89
NIOSH: Not listed.
NTP: Suspect carcinogen
OSHA: Possible Select carcinogen
IARC: Group 2B
CAS# 64-17-5
ACGIH: A4 - Not Classifiable as a Human Carcinogen
California: Not listed.
NIOSH: Not listed.
NTP: Not listed.
OSHA: Not listed.
IARC: Not listed.

CAS# 108-95-2
ACGIH: A4 - Not Classifiable as a Human Carcinogen
California: Not listed.
NIOSH: Not listed.
NTP: Not listed.
OSHA: Not listed.
IARC: Group 3
CAS# 67-56-1: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.
CAS# 67-63-0
ACGIH: Not listed.
California: Not listed.
NIOSH: Not listed.
NTP: Not listed.
OSHA: Not listed.
IARC: Group 3

Epidemiology:

phenol-- strong eye, mucous membrane, and skin irritant; convulsant and neurotoxin that is rapidly absorbed through skin damaging the central nervous system, liver, kidneys. Fatal if not rapidly treated.
Ethanol-- an eye and respiratory tract irritant, central nervous system depressant.

Teratogenicity:

Reproductive:

Mutagenicity:

Neurotoxicity:

Section 12 - Ecological Information

No information found.

Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Not regulated.

Hazard Class:
UN Number:
Packing Group:

Section 15 - Regulatory Information

US Federal

TSCA

CAS# 7732-18-5 is listed on the TSCA Inventory.
CAS# 569-61-9 is listed on the TSCA Inventory.
CAS# 64-17-5 is listed on the TSCA Inventory.
CAS# 108-95-2 is listed on the TSCA Inventory.
CAS# 67-56-1 is listed on the TSCA Inventory.
CAS# 67-63-0 is listed on the TSCA Inventory.

SARA Reportable Quantities (RQ)

CAS# 108-95-2: final RQ = 1000 pounds (454 kg)
CAS# 67-56-1: final RQ = 5000 pounds (2270 kg)

CERCLA/SARA Section 313

This material contains Phenol (CAS# 108-95-2, 14%),which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.
Methyl alcohol is not at a high enough concentration to be reportable under Section 313.
Isopropyl alcohol is not at a high enough concentration to be reportable under Section 313.

OSHA - Highly Hazardous

None of the components are on this list.

US State

State Right to Know

C.i. basic red 9 monohydrochloride can be found on the following state Right-to-Know lists: Florida, Minnesota, Massachusetts.
Ethyl alcohol can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.
Phenol can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.
Methyl alcohol can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.
Isopropyl alcohol can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

California Regulations

WARNING: This product contains Ethyl alcohol, a chemical known to the state of California to cause birth defects or other reproductive harm.
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European/International Regulations

Canadian DSL/NDSL

CAS# 7732-18-5 is listed on Canada's DSL List.
CAS# 569-61-9 is listed on Canada's DSL List.
CAS# 64-17-5 is listed on Canada's DSL List.
CAS# 108-95-2 is listed on Canada's DSL List.
CAS# 67-56-1 is listed on Canada's DSL List.
CAS# 67-63-0 is listed on Canada's DSL List.

Canada Ingredient Disclosure List

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

Material Safety Data Sheet

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CAS# 569-61-9 is listed on Canada's Ingredient Disclosure List.
CAS# 64-17-5 is listed on Canada's Ingredient Disclosure List.
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CAS# 67-56-1 is listed on Canada's Ingredient Disclosure List.
CAS# 67-63-0 is listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: August 23, 1998
Revision Date: March 21, 2007

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