

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Carbol Fuchsin DMSO

**SYNONYMS:** Carbol-fuchsin solution

**CATALOG CODES:** VDM

**MANUFACTURER:** Volu-Sol

**ADDRESS:** 5095 West 2100 South  
Salt Lake City, UT 84120

**EMERGENCY PHONE:** (800) 535-5053

**OTHER CALLS:** (801) 974-9474

**FAX:** (801) 974-9553

**CHEMICAL FAMILY:** -

**CHEMICAL FORMULA:** -

**PREPARED BY:** Volu-Sol

**RECOMMENDED USE:** Laboratory chemical

**RESTRICTIONS ON USE:** Use as recommended

## SECTION 2: HAZARD(S) IDENTIFICATION

## EMERGENCY OVERVIEW:

**GHS Classification:**

Flammable Liquids	(Category 3)
Skin Irritation	(Category 2)
Eye Irritation	(Category 2A)
Germ cell mutagenicity	(Category 2)
Carcinogenicity	(Category 2)
Chronic aquatic toxicity	(Category 3)
Specific target organ toxicity Repeated Exposure	(Category 2)

## GHS LABEL ELEMENTS:

## Pictogram:



## Signal Word:

Warning

## Hazard Statement(s):

H226 Flammable liquid and vapour

H315 Causes skin irritation

H319 Causes serious eye irritation

H341 Suspected of causing genetic defects

H351 Suspected of causing cancer

H373 May cause damage to organs through prolonged or repeated exposure

H412 Harmful to aquatic life with long lasting effects

## Precautionary Statement(s):

P201 Obtain special instructions before use

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

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking

P233 Keep container tightly closed

P240 Ground/bond container and receiving equipment

P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment

P242 Use only non-sparking tools

P243 Take precautionary measures against static discharge

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray

P264 Wash skin thoroughly after handling

P273 Avoid release to the environment

P280 Wear protective gloves/ eye protection/ face protection

P302+P352 IF ON SKIN: Wash with plenty of soap and water

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

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

P332+P313 If skin irritation occurs: Get medical advice/ attention

P337+P313

If eye irritation persists: Get medical advice/ attention

P362

Take off contaminated clothing and wash before reuse

P370+P378

In case of fire: Use dry sand, dry chemical 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 to an approved waste disposal plant

## OTHER HAZARDS: -

## HMIS Classification:

**Health hazard:** 3

**Chronic health hazard:** -

**Flammability:** 1

**Physical hazards:** 0

## NFPA Rating:

**Health hazard:** 3

**Fire:** 1

**Reactivity Hazard:** 0

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO. EC-NO. Index-NO.
Ethanol (10-20%)	64-17-5 200-578-6 603-002-00-5
Glycerol (10-20%)	56-81-5 200-289-5
Dimethyl sulfoxide (10-20%)	67-68-5 200-664-3
Phenol (5-10%)	108-95-2 203-632-7 604-001-00-2
C.I. Basic red 9 (1-3%)	569-61-9 209-321-2 611-031-00-X

## SECTION 4: FIRST AID MEASURES

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician

**INGESTION:** If swallowed, vomiting may occur spontaneously, but DO NOT INDUCE. If vomiting occurs, keep head below hips to prevent aspiration into lungs. Never give anything by mouth to an unconscious person. Take victim immediately to hospital. Rinse mouth with water. Consult a physician

**SKIN:** Immediately flush skin with plenty of soap and water. Remove contaminated clothing and shoes, wash before reuse. Consult a physician

**EYE:** Immediately flush eyes with plenty of water for at least 15 minutes. Consult a physician. Continue rinsing eyes during transport to hospital

## SECTION 5: FIRE-FIGHTING MEASURES

**FLAMMABLE LIMITS IN AIR:** Percentage by Volume  
Upper: -%  
Lower: -%

**FLASH POINT:** -

**AUTOIGNITION TEMPERATURE:** -

**EXTINGUISHING MEDIA:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

**FIRE FIGHTING PROCEDURES:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode

**FIRE AND EXPLOSION HAZARDS:** Use water spray to cool unopened containers

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**ACCIDENTAL RELEASE MEASURES:** Use personal protective equipment. Avoid breathing vapours, mist, or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations. Dispose of in accordance with local regulations. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The number to contact the US Coast Guard National Response Center is (800) 424-8802

**SECTION 7: HANDLING AND STORAGE**

**HANDLING AND STORAGE:** Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use explosion-proof equipment. Keep away from sources of ignition. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Containers of this material may be hazardous when empty since they retain product residues (vapours, liquid); observe all warnings and precautions listed for the product. Take measures to prevent the buildup of electrostatic charge. No smoking

**INCOMPATIBILITIES:** Strong oxidizing agents

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**EXPOSURE LIMITS:** Reported in a time-weighted average (TWA)

Component	CAS-No.	OSHA		ACGIH	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Ethanol	64-17-5	1,000	1,900	1,000	1,900
		PEL	PEL	TLV	TLV
Glycerol	56-81-5	4	15	3	10
		PEL	PEL	TLV	TLV
Dimethyl sulfoxide	67-68-5	250	800	250	800
		PEL	PEL	TLV	TLV
Phenol	108-95-2	5	19	5	19
		PEL	PEL	TLV	TLV

**VENTILATION SYSTEM:** Local and/or general exhaust is recommended to keep exposure below limits. Local exhaust ventilation is preferred for control of the emissions at its source, preventing dispersion into the general work area. Please refer to the ACGIH document, *Industrial Ventilation: A Manual of Recommended Practices*, for details

**PERSONAL RESPIRATORS:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**SKIN PROTECTION:** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Use proper glove removal technique to avoid skin contact with this product. Wash and dry hands

**EYE PROTECTION:** Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE:** liquid  
**ODOR:** -  
**SOLUBILITY:** -  
**pH:** -  
**BOILING POINT:** -  
**MELTING POINT:** -  
**VAPOR PRESSURE:** -

**SECTION 10: STABILITY AND REACTIVITY**

**CHEMICAL STABILITY:** Stable under recommended conditions of use and storage

**CONDITIONS TO AVOID:** Heat, flames, ignition sources

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** No data available

**SECTION 11: TOXICOLOGICAL INFORMATION****TOXICOLOGICAL INFORMATION:**

**Acute Toxicity:** No data available  
**Skin/Eye Irritation:** No data available  
**Carcinogenicity:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA  
**IARC:** 2B – Group 2B: Possibly carcinogenic to humans (C.I. Basic red 9)  
 3 – Group 3: Not classifiable as to its carcinogenicity to humans (Phenol)  
**NTP:** Reasonably anticipated to be a human carcinogen (C.I. Basic red 9)  
**ROUTES OF ENTRY:** Inhalation/Ingestion/Skin

**SECTION 12: ECOLOGICAL INFORMATION****ECOLOGICAL INFORMATION:**

**Toxicity:** No data available  
**Persistence and degradability:** No data available  
**Mobility in soil:** No data available  
**PBT/vPvB Results:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**SECTION 13: DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL METHOD:** Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is flammable. Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in an RCRA approved waste facility. Processing, use, or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state, and local requirements. Dispose of as unused product

**SECTION 14: TRANSPORT INFORMATION**

US DOT	IATA	IMDG/IMO
Shipping Name: Ethanol & Phenol solutions	Shipping Name: Ethanol & Phenol solutions	Shipping Name: Ethanol & Phenol solutions
Hazard Class: 3 & 6.1	Hazard Class: 3 & 6.1	Hazard Class: 3 & 6.1
UN Number: 1170 & 2821	UN Number: 1170 & 2821	UN Number: 1170 & 2821
Packing Group: II	Packing Group: II	Packing Group: II

**SECTION 15: REGULATORY INFORMATION**

<b>SARA 302</b>	108-95-2
<b>SARA 313</b>	108-95-2
<b>SARA 311/312 Hazards</b>	Fire hazard, Acute Health Hazard, Chronic Health Hazard
<b>State</b>	Right to know lists: MA: 64-17-5, 56-81-5, 108-95-2, 569-61-9 PA: 64-17-5, 56-81-5, 108-95-2, 67-68-5, 7732-18-5 NJ: 64-17-5, 56-81-5, 108-95-2, 569-61-9, 67-68-5, 7732-18-5 California Prop. 65 Components: 569-61-9

**SECTION 16: OTHER INFORMATION**

**Disclaimer:** The information is provided without any representation or warranty, express or implied, regarding the accuracy or correctness. The conditions or methods of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with the handling, storage, use, or disposal of the product.