

# MATERIAL SAFETY DATA SHEET

## BASIC FUCHSIN COUNTERSTAIN

FILE NO.: 007  
MSDS DATE: 8/21/06

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Basic Fuchsin  
**SYNONYMS:**  
**CATALOG CODES:** VBA  
**MANUFACTURER:** Volu-Sol Incorporated  
**DIVISION:** Business Services  
**ADDRESS:** 5095 West 2100 South  
Salt Lake City, UT 84120  
**EMERGENCY PHONE:** (800) 535-5053  
**CHEMTREC PHONE:** (800) 424-9300  
**OTHER CALLS:** (801) 974-9474  
**FAX PHONE:** (801) 974-9553  
**CHEMICAL NAME:** N/A  
**CHEMICAL FAMILY:** N/A  
**CHEMICAL FORMULA:** Mixture  
**PRODUCT USE:** Laboratory Reagent

### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO.
Ethanol	64-17-5
Deionized Water	7732-18-5
Basic Fuchsin	632-99-5

#### SARA 313 REPORTABLE

None

### SECTION 3: HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** DANGER! EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. VAPORS CAUSE COUGH, HEADACHE, FATIGUE, AND DROWSINESS.

**ROUTES OF ENTRY:** Inhalation/Ingestion/Skin/Eyes

**Eye:**

May cause eye irritation. Causes redness and pain.

**Skin:**

May cause skin irritation. Contact with the skin defats the skin.

**Ingestion:**

Symptoms may include: headache, excitement, fatigue, nausea, vomiting, stupor, and coma. May cause muscle tremor and impaired motor function. May cause cardiac disturbances.

**Inhalation:**

May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema. May cause central nervous system effect including vertigo, anxiety, depression, muscle incoordination, and emotional instability. May cause narcotic effects in high concentration.

**Chronic:**

Not available.

**CARCINOGENICITY:** Not Listed

**OSHA: ACGIH: NTP: IARC:**

### SECTION 4: FIRST AID MEASURES

**Eyes:**

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.

**Skin:**

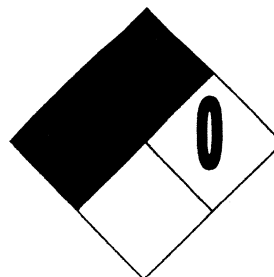
Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion:**

Get medical aid. Wash mouth out with water.

**Inhalation:**

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.



### SECTION 5: FIRE-FIGHTING MEASURES

**FLAMMABLE LIMITS IN AIR (% BY VOLUME); UPPER:** 19% (Ethanol)  
**LOWER:** 3.3% (Ethanol)

**FLASH POINT:** 16.6C / 61.88F (Ethanol); 40C / 104F

**AUTOIGNITION TEMPERATURE:** 363C/685.40F (Ethanol); 427C/801F

**EXTINGUISHING MEDIA:** Dry chemical, alcohol foam or carbon dioxide. Water may be ineffective. Water spray may be used to keep fire exposed containers cool, dilute spills to nonflammable mixtures, protect personnel attempting to stop leak and disperse vapors.

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

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Vapors can flow along surfaces to distant ignition source and flash back. Contact with strong oxidizers may cause fire. Sealed containers may rupture when heated. This material may produce a floating fire hazard. Sensitive to static discharge. Ethanol burns with a near invisible flame in direct light.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**ACCIDENTAL RELEASE MEASURES:** Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

### SECTION 7: HANDLING AND STORAGE

**HANDLING AND STORAGE:** Protect against physical damage. Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from incompatibles. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be No Smoking areas. Use non-sparking type tools and equipment, including explosion proof ventilation. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**AIRBORNE EXPOSURE LIMITS:** \*ppm = (mg/M<sup>3</sup>)(24.45)/MW

CHEMICAL	All readings in ppm			
	OSHA PEL'S TWA	OSHA PEL'S CEILING	ACGIH TLV	ACGIH STEL
Ethanol	1000	-	1000	-
Deionized Water	-	-	-	-
Basic Fuchsin	-	-	-	-

**VENTILATION SYSTEM:** A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it

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into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

**PERSONAL RESPIRATORS (NIOSH APPROVED):** If the exposure limit is exceeded and engineering controls are not feasible, a half-face organic vapor respirator may be worn for up to ten times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece organic vapor respirator may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

**SKIN PROTECTION:** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**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

<b>Physical State:</b>	liquid
<b>Color:</b>	violet
<b>Odor:</b>	None reported.
<b>pH:</b>	Not available.
<b>Vapor Pressure:</b>	Negligible.
<b>Viscosity:</b>	Not available.
<b>Boiling Point:</b>	Not available.
<b>Freezing/Melting Point:</b>	Not available.
<b>Autoignition Temperature:</b>	Not applicable.
<b>Flash Point:</b>	Not applicable.
<b>Explosion Limits, lower:</b>	Not available.
<b>Explosion Limits, upper:</b>	Not available.
<b>Decomposition Temperature:</b>	Not available.
<b>Solubility in water:</b>	Soluble in water.
<b>Specific Gravity/Density:</b>	Not available.

### SECTION 10: STABILITY AND REACTIVITY

**STABLE**                      **UNSTABLE**  
Yes

**STABILITY:** Stable under ordinary conditions of use and storage.

**CONDITIONS TO AVOID (STABILITY):** Heat, flames, ignition sources and incompatibles.

**INCOMPATIBILITY (MATERIAL TO AVOID):** Not Available

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Hydrogen Chloride, Chloride and Hydrogen. Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID (POLYMERIZATION):** N/A

### SECTION 11: TOXICOLOGICAL INFORMATION

**TOXICOLOGICAL INFORMATION:** Not Listed

### SECTION 12: ECOLOGICAL INFORMATION

**ECOLOGICAL INFORMATION:** Not Available

**ENVIRONMENTAL:** Not Available

**PHYSICAL:** No information available.

**OTHER:** No information available.

### SECTION 13: DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD:** Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a 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.

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### SECTION 14: TRANSPORT INFORMATION

US DOT	IMO	IATA	RID/ADR	CANADIAN TDG
Ship Name: Ethanol Solutions	Ship Name: Ethanol Solutions	Ship Name: Ethanol Solutions	Ship Name: Ethanol Solutions	Ship Name: Ethanol Solutions
Hazard Class: 3	Hazard Class: 3.1	Hazard Class: 3	Dangerous Goods Code: 3(3B)	Hazard Class: 3
UN Number: UN1170	UN Number: UN1170	UN Number: UN1170	UN Number: UN1170	UN Number: UN1170
Packing Group: II	Packing Group: 2	Packing Group: 2	-	Flashpoint 16.6 C

### SECTION 15: REGULATORY INFORMATION

<b>TSCA</b>	CAS# 64-17-5 is listed on the TSCA inventory.
<b>CERCLA/SARA</b>	None of the chemicals in this material have an RQ.
<b>Clean Air Act</b>	This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.
<b>Clean Water Act</b>	None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.
<b>OSHA</b>	None of the chemicals in this product are considered highly hazardous by OSHA
<b>State</b>	CAS# 64-17-5 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.
<b>International Regulations</b>	CAS# 64-17-5 is listed on Canada's DSL List. This product has a WHMIS classification of B2, D2A. CAS# 64-17-5 is listed on the Canadian Ingredient Disclosure List.

**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.