



# GIEMSA STAIN, STOCK SOLUTION

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**Carolina Biological Supply Company**

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**CAROLINA**  
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## Section 1 - Product Description

**Product Name:** Giemsa Stain, Stock Solution  
**Product Code(s):** 86-5171, 86-5173, 86-5175, 17-4100  
**Size:** 25 mL, 120 mL, 500 mL  
**Chemical Name:** N/A  
**CAS Number:** N/A  
**Formula:** See section 2  
**Synonyms:** N/A  
**Distributor:** Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215  
**Chemical Information:** 800-227-1150 (8am-5pm (ET) M-F) **Chemtrec** 800-424-9300 (Transportation Spill Response 24 hours)

## Section 2 - Composition / Information on Ingredients

**Principal Hazardous Components:** Methanol (CAS# 67-56-1) 49.62%; Glycerol (CAS# 56-81-5) 49.62%; Giemsa Stain (CAS# 51811-82-6) 0.76%  
**TLV units:** Methanol: ACGIH-TLV 200 ppm (skin) (TWA)  
Glycerol: ACGIH-TLV 10 mg/m3 (mist) (TWA)  
**PEL units:** Methanol: OSHA-PEL 200 ppm (TWA)  
Glycerol: OSHA-PEL 5 mg/m3 (respirable fraction)

## Section 3 - Hazard Identification

**Emergency Overview:** Toxic if swallowed. Harmful by inhalation.  
**Potential Health Effects:**  
**Eyes:** May cause irritation. **Skin:** Non-Hazardous under normal use.  
**Ingestion:** May cause gastrointestinal discomfort. **Inhalation:** May cause irritation to respiratory tract.

## Section 4 - First Aid Measures

**Emergency and First Aid Procedures:**  
**Eyes** - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
**Skin** - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of ... (Water, unless specified as a water reactive material).  
**Ingestion** - If swallowed, if conscious, give plenty of water and induce vomiting immediately as directed by medical

personnel. Immediately call a physician or poison control center. Never give anything by mouth to an unconscious person.  
**Inhalation** - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

## Section 5 - Firefighting Procedures

**Flash Point (Method Used):** Methanol 12°C (cc)

**NFPA Rating:**

**Health:** 1

**Fire:** 3

**Reactivity:** 0

**Extinguisher Media:** Use dry chemical, CO<sub>2</sub> or appropriate foam.

**Flammable Limits in Air % by Volume:** Methanol LEL 7.3% Methanol UEL 36%

**Autoignition Temperature:** N/A

**Special Firefighting Procedures:** Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

**Unusual Fire and Explosion Hazards:** Vapours may travel back to ignition source. Closed Containers exposed to heat may explode.

## Section 6 - Spill or Leak Procedures

**Steps to Take in Case Material Is Released or Spilled:** Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

## Section 7 - Special Precautions

**Precautions to Take in Handling or Storing:** Keep container tightly closed in a cool, well-ventilated place.

## Section 8 - Protection Information

**Respiratory Protection (Specify Type):** None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

**Ventilation:**

**Local Exhaust:** Yes

**Mechanical(General):** Yes

**Special:** No

**Other:** No

**Protective Gloves:** Natural rubber, Neoprene, PVC or equivalent.

**Eye Protection:** Splash proof chemical safety goggles should be worn.

**Other Protective Clothing or Equipment:** Lab coat, apron, eye wash, safety shower.

## Section 9 - Physical Data

**Molecular Weight:** N/A

**Boiling Point:** N/A

**Vapor Density(Air=1):** N/A

**Percent Volatile by Volume:** 50%

**Solubility in Water:** Practically Insoluble

**Melting Point:** N/A

**Vapor Pressure:** N/A

**Specific Gravity (H<sub>2</sub>O=1):** N/A

**Evaporation Rate (BuAc=1):** N/A

**Appearance and Odor:** Dark blue, slightly thick liquid

## Section 10 - Reactivity Data

**Stability:** Stable

**Conditions to Avoid:** Heat and sources of ignition.

**Incompatibility (Materials to Avoid):** Alkalies, Metal Oxides, Acetic Anhydride, Acids, Oxidizers,

**Hazardous Decomposition Products:** Aldehydes, COx,  
**Hazardous Polymerization:** Will not occur

## Section 11 - Toxicity Data

**Toxicity Data:** Methanol: orl-rat LD50 5,628 mg/kg, ihl-rat LC50 64,000 ppm/4H

Glycerol: orl-rat LD50 12,600 mg/kg

Eosin Y: orl-mus LD50 2,344 mg/kg, ipr-rat LD50 500 mg/kg

Methylene Blue: orl-rat LD50 1,180 mg/kg, ivn-rat LD50 1,250 mg/kg

This mixture is not thoroughly evaluated. Data is listed for individual components.

**Effects of Overexposure:**

**Acute:** See section 3

**Chronic:** N/A

**Conditions Aggravated by Overexposure:** N/A

**Target Organs:** N/A

**Primary Route(s) of Entry:** Inhalation, ingestion, eye or skin contact.

## Section 12 - Ecological Data

**EPA Waste Numbers:** Methanol U154

## Section 13 - Disposal Information

**Waste Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

## Section 14 - Transport Information

**DOT Proper Shipping Name:** UN1993, Flammable liquid, n.o.s (Methanol), 3, II

## Section 15 - Regulatory Information

**EPA TSCA Status:** On TSCA Inventory

**Hazard Category for SARA Section 311/312 Reporting:** Fire Chronic Acute

**Name List:**

Methanol - Yes

Glycerol - No

Eosin Y - No

Methylene Blue - No

Azure A - No

**Chemical Category:**

Methanol - No

Glycerol - No

Eosin Y - No

Methylene Blue - No

Azure A - No

**CERCLA Section 103 RQ(lb.):** Methanol - 5000

Glycerol - No

Eosin Y - No

Methylene Blue - No

Azure A - No

**RCRA Section 261.33:** Methanol - Yes

Glycerol - No

Eosin Y - No

Methylene Blue - No

Azure A - No

Product Name: GIEMSA STAIN, STOCK SOLUTION

## Section 16 - Additional Information

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

### Glossary

ACGIH	American Conference of Governmental Industrial Hygienists
CAS Number	Chemical Services Abstract Number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
DOT	U.S. Department of Transportation
IARC	International Agency of Research on Cancer
N/A	Not Available
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
ppm	Parts per million
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act