



Material Safety Data Sheet Giemsa Stain Solution

Section 1 - Chemical Product and Company Identification

MSDS Name:

Giemsa Stain Solution

Catalog Numbers:

LC14840

Synonyms:

None

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 or
011-703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
51811-82-6	Giemsa Stain	1
67-56-1	Methanol	49.5
56-81-5	Glycerin	49.5

Section 3 - Hazards Identification

Emergency Overview

Appearance: Dark purple solution

Warning! Combustible liquid. May be fatal or cause blindness if swallowed or inhaled. Cannot be made nontoxic. Causes eye and skin irritation. May cause kidney and liver damage. Central nervous system depressant.

Target Organs: Eyes, skin, respiratory, gastrointestinal and central nervous systems, optic nerve, liver, kidney, spleen, blood.

Potential Health Effects

Eye:

Causes eye irritation.

Skin:

Causes skin irritation. May cause blindness if absorbed through the skin.



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Ingestion:

May be fatal or cause blindness if swallowed. Cannot be made nonpoisonous. May cause central nervous system depression. May cause liver and kidney damage. Causes gastrointestinal irritation with nausea, vomiting, and diarrhea.

Inhalation:

May cause blindness if inhaled. May cause central nervous system depression. May cause respiratory tract irritation.

Chronic:

May cause permanent blindness. May cause liver and kidney damage. Reproductive toxicity effects have occurred in laboratory animals. Tumorigenic effects have occurred in laboratory animals.

Section 4 - First Aid Measures

Eyes:

Immediately 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:

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

Ingestion:

Do not induce vomiting. If vomiting occurs naturally, keep head below hips to prevent aspiration into lungs. Give conscious victim 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid at once.

Inhalation:

Move victim to fresh air immediately. If breathing is difficult, administer oxygen. Give artificial respiration if necessary. Get medical aid at once.

Notes to Physician:

Effects may be delayed.

Section 5 - Fire Fighting Measures

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Vapors are heavier than air and may travel to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas.

Extinguishing Media:

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. Water may be ineffective. For large fires, use water spray, fog or alcohol-resistant foam.

Autoignition Temperature:

400°C (752°F)

Flash Point:

85°F (29.4°C)

NFPA Rating:

Health- 3, Flammability- 1, Instability- 0

Explosion Limits:

Lower: 6% Upper: 31%



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Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spill with inert material such as sand, vermiculite, or diatomaceous earth, and transfer to a suitable container labeled for later disposal. Shut off ignition sources, provide ventilation, and wear respiratory protection.

Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Do not ingest or inhale. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Use only with adequate ventilation. Keep away from heat, sparks and flame. Avoid use in confined spaces.

Storage:

Store tightly capped in a cool, dry, well-ventilated area away from incompatible materials.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Facilities using or storing this material should be equipped with an eyewash and safety shower. Provide local exhaust or general dilution ventilation to keep airborne levels below the permissible exposure limits.

Exposure Limits:

Chemical Name:	ACGIH	NIOSH	OSHA
Giemsa Stain	None listed	None listed	None listed
Methanol	200 ppm TWA 250 ppm STEL	200 ppm TWA 260 mg/m ³ TWA 6000 ppm IDLH	200 ppm TWA 260 mg/m ³ TWA
Glycerin	10 mg/m ³ TWA	None listed	15 mg/m ³ TWA 5 mg/m ³ TWA

OSHA Vacated PELs:

Methanol: 200 ppm TWA; 260 mg/m³ TWA

Glycerin: 10 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)

Personal Protective Equipment**Eyes:**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133. Do not wear contact lenses when working with chemicals.

Skin:

Wear appropriate protective gloves to prevent skin exposure.



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Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134. Always use an NIOSH-approved respirator when necessary.

Section 9 - Physical and Chemical Properties

Physical State:	Liquid
Color:	Dark purple
Odor:	Slight alcoholic odor
pH:	Neutral
Vapor Pressure:	Not available.
Vapor Density:	Not available.
Evaporation Rate:	Not available.
Viscosity:	Not available.
Boiling Point:	Not available.
Freezing/Melting Point:	Not available.
Decomposition Temperature:	Not applicable.
Solubility in water:	Soluble
Specific Gravity/Density:	1.05
Molecular Formula:	Not applicable.
Molecular Weight:	Not applicable.

Section 10 - Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, excess heat.

Incompatibilities with Other Materials:

Strong oxidizers, strong acids, acid anhydrides, acid chlorides, strong bases, metals, peroxides.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, formaldehyde.

Hazardous Polymerization:

Will not occur.

Section 11 - Toxicological Information

RTECS:

CAS# 51811-82-6: unlisted

CAS #67-56-1: PC1400000

CAS# 56-81-5: MA8050000

LD50/LC50:

CAS# 51811-82-6:

Not available.

CAS# 67-56-1:

Inhalation, rat: LC50 = 64000 mg/m³/4H;



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Oral, rat: LD50 = 5628 mg/kg;
Skin, rabbit: LD50 = 15800 mg/kg

CAS# 56-81-5:

Inhalation, rat: LC50 = 570 mg/m³/1H;

Oral, rat: LD50 = 12600 mg/kg;

Skin, rabbit: LD50 = 21900 mg/kg

Carcinogenicity:

None of the chemicals in this product is listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or California Proposition 65.

Epidemiology:

No information found.

Teratogenicity:

Methanol is considered to be a potential developmental hazard based on animal data. In animal experiments, methanol has caused fetotoxic or teratogenic effects without maternal toxicity. There is no human information available.

Reproductive:

Reproductive toxicity effects have occurred in laboratory animals.

Mutagenicity:

Mutagenic effects have occurred in laboratory animals.

Neurotoxicity:

See actual entry in RTECS for complete information.

Section 12 - Ecological Information

No information is available for this solution. Based on data from methanol, this product can reasonably be assumed to be dangerous to aquatic life in high concentrations.

Section 13 - Disposal Considerations

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

Section 14 - Transport Information

US DOT

Shipping Name: Flammable liquid, n.o.s.

Hazard Class: 3

UN Number: UN1993

Packing Group: PG III

Section 15 - Regulatory Information

US Federal

TSCA:

CAS# 51811-82-6 is listed on the TSCA inventory.

CAS# 67-56-1 is listed on the TSCA inventory.

CAS# 56-81-5 is listed on the TSCA inventory.



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SARA Reportable Quantities (RQ):

CAS# 67-56-1: 5000 lb. final RQ; 2270 kg final RQ

CERCLA/SARA Section 313:

This material contains Methanol (CAS# 67-56-1, 49.5%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

OSHA - Highly Hazardous:

None of the components are on this list.

US State

State Right to Know:

CAS# 51811-82-6 is not present on state lists from California, Pennsylvania, Minnesota, Massachusetts, Florida, or New Jersey.

CAS# 67-56-1 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

CAS# 56-81-5 can be found on the following state right to know lists: Pennsylvania, Minnesota, Massachusetts.

California Regulations:

WARNING: This product contains Methanol, a chemical known to the state of California to cause birth defects or other reproductive harm.

European/International Regulations

Canadian DSL/NDSL:

CAS# 51811-82-6 is listed on Canada's DSL List.

CAS# 67-56-1 is listed on Canada's DSL List.

CAS# 56-81-5 is listed on Canada's DSL List.

Canada Ingredient Disclosure List:

CAS# 51811-82-6 is not listed on the Canadian Ingredient Disclosure List.

CAS# 67-56-1 is listed on the Canadian Ingredient Disclosure List.

CAS# 56-81-5 is not listed on the Canadian Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: October 25, 2006

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