

MATERIAL SAFETY DATA SHEET

WRIGHT STAIN SOLUTION
CAROLINA BIOLOGICAL

Revised: 11/23/09
Replaces: 11/23/09
Printed: 08/03/10

1. PRODUCT DESCRIPTION

Product Name: Wright Stain Solution
Product Code(s): 89-8531, 89-8533, 89-8535, 89-2281, 89-2285, 70-0380,
70-0388, BM2300
Size: 25mL, 120mL, 500mL
Chemical Name: Mixture
CAS Number: See section 2
Formula: See section 2
Synonyms: None
Distributor: Carolina Biological Supply Company
2700 York Road
Burlington, NC 27215
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec (Transportation Spill Response 24 hours): 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Principal Hazardous Components:
Wright Stain(CAS#68988-92-1) 0.2%
Glycerin(CAS#56-81-5) 3%
Methanol(CAS#67-56-1) 96.8%

TLV and PEL units:

Methanol	ACGIH-TLV:	200 ppm TWA; 250 PPM STEL
	OSHA-PEL:	200 ppm TWA
Glycerol	ACGIH-TLV:	10 mg/m3 TWA (mist)
	OSHA-PEL:	15 mg/m3 TWA(total dust); 5 mg/m3 TWA (respirable fraction)

3. HAZARD IDENTIFICATION

Emergency Overview:
Potential Health Effects:
Eyes: May cause irritation.
Skin: May cause irritation.
Ingestion: May cause gastrointestinal discomfort.
Inhalation: May cause irritation to respiratory tract.

4. FIRST AID MEASURES

Emergency and First Aid Procedures:
Eyes - Flush with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention if irritation persists.
Skin - Thoroughly wash exposed area for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation persists.
Ingestion - If swallowed, if conscious, give some water. Do not induce vomiting unless and until directed by medical personnel. Get medical attention immediately. Never give anything by mouth to an unconscious person.
Inhalation - Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm and quiet, and get medical attention.

5. FIREFIGHTING PROCEDURES

Flash Point(Method Used): Methanol 11°C (52°F)(cc)
NFPA Rating (methanol): 1 Health

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3 Flammability
0 Instability

Extinguisher Media:

Use dry chemical, CO2 or appropriate foam.
Flammable Limits in Air % by Volume: Methanol: LEL 6.0%, UEL 36%
Autoignition Temperature: Methanol 464°C(867°F)
Special Firefighting Procedures:
Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: Vapors are heavier than air and can travel to a source of ignition and flash back.

6. SPILL OR LEAK PROCEDURES

Steps to be Taken 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.

7. SPECIAL PRECAUTIONS

Precautions to be Taken in Handling or Storing: Material should be kept in an area suitable for the storage of highly flammable liquids. Bond and ground containers when transferring liquid. Do not get in eyes, on skin, or on clothing.
Other Precautions: Keep oxidizing materials and strong acids away.

8. SPECIAL PROTECTION INFORMATION

Respiratory Protection(Specify Type):
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:
Rubber, neoprene, PVC, or equivalent.
Eye Protection:
Splash proof chemical safety goggles should be worn at all times.
Other Protective Clothing or Equipment:
Lab apron, eye wash, and safety shower.

9. PHYSICAL DATA

Molecular Weight:	N/A
Melting Point:	-97.8°C (methanol)
Boiling Point:	64.5°C (methanol)
Vapor Pressure:	96 mmHg @ 20°C (methanol)
Vapor Density(Air=1):	1.1 (methanol)
Specific Gravity(H2O=1):	0.79 (methanol)
Percent Volatile by Volume:	100%
Evaporation Rate(BuAc=1):	2.1 (methanol)
Solubility in Water:	Complete
Appearance and Odor:	Dark purple liquid with slight odor of alcohol.

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10. REACTIVITY DATA

Stability: Stable
Conditions to Avoid: Heat, sparks, open flame.
Incompatibility(Materials to Avoid): Strong oxidizing agents and strong acids.
Hazardous Decomposition Products: Carbon dioxide, carbon monoxide.
Hazardous Polymerization: Will not occur

11. TOXICITY DATA

Toxicity Data: Mixture have not been thoroughly evaluated. Data is listed for individual components.
Glycerol: Oral Rat LD50: 12,600 mg/kg
Methanol: Oral Rat LD50: 5,628 mg/kg
Inhalation Rat LC50: 64,000 ppm/4H
Effects of Overexposure:
Acute: See section 3
Chronic: Mutation data cited. Reproductive effects data cited.
Not listed as causing cancer by IARC, NTP, OSHA.
Conditions Aggravated by Overexposure: Preexisting conditions of the eyes, skin and nervous system.
Target Organs: Eyes, skin, nervous system
Primary Route(s) of Entry: Inhalation, ingestion, eyes, skin

12. ECOLOGICAL DATA

EPA Waste Numbers: U154 for methanol

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.

14. TRANSPORT INFORMATION

Description: Methanol solution, 3, UN1230, II
Label(s): Domestic-3 International-3, 6.1
25 mL bottle is a small quantity exception.

15. REGULATORY INFORMATION

EPA TSCA Status: On TSCA Inventory
Hazard Category for SARA Section 311/312 Reporting: Acute, Chronic, Fire

Product or Components	SARA EHS Sec. 302 TPQ	SARA Sec. 313 Chemicals		CERCLA Sec. 103 RQ lbs.	RCRA Sec. 261.33
		Name List	Chemical Category		
Wright Stain	No	No	No	No	No
Glycerol	No	No	No	No	No
Methanol	No	Yes	No	5,000(Ignitability)	Yes

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

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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 Abstracts Service Number
CERCLA.....Comprehensive Environmental Response, Compensation, and Liability Act
DOT.....U.S. Department of Transportation
IARC.....International Agency of Research on Cancer
mppcf.....million particles per cubic foot
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