

Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name	Wright-Giemsa Fucillo Stain	Product Code	64571
Manufacturer	EMD Chemicals Inc. P.O. Box 70 480 Democrat Road Gibbstown, NJ 08027 Prior to January 1, 2003 EMD Chemicals Inc. was EM Industries, Inc. or EM Science, Division of EM Industries, Inc.	Effective Date	3/4/2003
		Print Date	5/3/2004

For More Information Call

856-423-6300 Technical Service
Monday-Friday: 8:00 AM - 5:00 PM

In Case of Emergency Call

800-424-9300 CHEMTREC (USA)
613-996-6666 CANUTEC (Canada)
24 Hours/Day: 7 Days/Week

Synonym None.

Material Uses Laboratory Reagent

Chemical Family Dye Solution

Section 2. Composition and Information on Ingredients

Component	CAS #	% by Weight
METHANOL	67-56-1	>93
Giemsa Stain	51811-82-6	<1
GLYCERIN	56-81-5	<1
SODIUM PHOSPHATE, DIBASIC, ANHYDROUS	7558-79-4	<1
Potassium Phosphate, Monobasic	7778-77-0	<1
METHYLENE BLUE	61-73-4	<1
Azure A	531-53-3	<1
WRIGHT STAIN	68988-92-1	<1

Section 3. Hazards Identification

Physical State and Appearance Liquid.

Emergency Overview DANGER !POISON !
FLAMMABLE LIQUID AND VAPOR.
VAPOR MAY CAUSE FLASH FIRE.
VAPOR HARMFUL
MAY BE FATAL IF INHALED OR SWALLOWED.
MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED.
MAY BE HARMFUL IF ABSORBED THROUGH SKIN.
CAUSES EYE IRRITATION.
CANNOT BE MADE NON-POISONOUS
CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS:
KIDNEYS, MUCOUS MEMBRANES, GASTROINTESTINAL TRACT, RESPIRATORY TRACT,
SKIN, CENTRAL NERVOUS SYSTEM, EYE, LENS OR CORNEA.

Routes of Entry Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.

Potential Acute Health Effects

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Eyes Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching.

Skin May be hazardous in case of skin contact (permeator).

Inhalation Extremely hazardous in case of inhalation. May be fatal if inhaled.

Ingestion Extremely hazardous in case of ingestion. May be fatal if swallowed.

Potential Chronic Health Effects

Carcinogenic Effects This material is not known to cause cancer in animals or humans.

Additional information See Toxicological Information (section 11)

Medical Conditions Aggravated by Overexposure:

Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Section 4. First Aid Measures

Eye Contact Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

Skin Contact In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flammability of the Product Product will burn.

Auto-ignition Temperature The lowest known value is 464.05°C (867.3°F) (METHANOL).

Flash Points The lowest known value is Open cup: 15.9°C (60.6°F). (METHANOL)

Flammable Limits The greatest known range is LOWER: 6% UPPER: 36.5% (METHANOL)

Products of Combustion These products are carbon oxides (CO, CO₂).

Fire Hazards in Presence of Various Substances Highly flammable in presence of oxidizing materials.
Flammable in presence of open flames, sparks and static discharge, of shocks, of heat.

Explosion Hazards in Presence of Various Substances

Risks of explosion of the product in presence of static discharge:
Flammable in presence of open flames, sparks and static discharge.
Highly explosive in presence of open flames, sparks and static discharge.

Risks of explosion of the product in presence of mechanical impact:
Flammable in presence of shocks.
Highly explosive in presence of shocks.

Fire Fighting Media and Instructions SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.

Protective Clothing (Fire) Be sure to use an approved/certified respirator or equivalent.

Special Remarks on Fire Hazards Vapor may travel considerable distance to source of ignition and flash back.

Special Remarks on Explosion Hazards Not available.

Section 6. Accidental Release Measures

Small Spill and Leak	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.
Large Spill and Leak	Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.
Spill Kit Information	The following EMD Chemicals Inc. SpillSolv (TM) absorbent is recommended for this product: SX1330 Solvent Treatment Kit

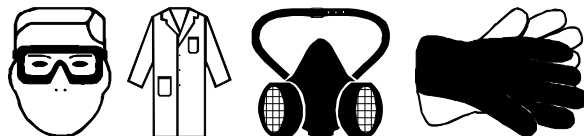
Section 7. Handling and Storage

Handling	Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment.
Storage	Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Personal Protection	
<i>Eyes</i>	Splash goggles.
<i>Body</i>	Lab coat.
<i>Respiratory</i>	Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.
<i>Hands</i>	Gloves.
<i>Feet</i>	Not applicable.

Protective Clothing (Pictograms)



Personal Protection in Case of a Large Spill

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Product Name

METHANOL

Exposure Limits

ACGIH (United States, 1994). Skin

TWA: 262 mg/m³

STEL: 328 mg/m³

OSHA (United States, 1989). Skin

TWA: 260 mg/m³

STEL: 325 mg/m³

ACGIH (United States, 1994). Skin

STEL: 328 mg/m³

STEL: 250 ppm

TWA: 262 mg/m³

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Giemsa Stain	TWA: 200 ppm
GLYCERIN	NIOSH REL (United States, 1994). Skin STEL: 325 mg/m ³ STEL: 250 ppm TWA: 260 mg/m ³ Period: 10 hour(s). TWA: 200 ppm Period: 10 hour(s).
	OSHA Final Rule (United States, 1989). Skin STEL: 325 mg/m ³ STEL: 250 ppm TWA: 260 mg/m ³ TWA: 200 ppm
	Not available.
	Belgium Minister of Labour (Belgium, 1998). VL: 10 mg/m ³
	Tyterveyslaitos (Finland, 1998). TWA: 20 mg/m ³
	INRS (France, 1996). VME: 10 mg/m ³
	National Authority for Occupational Safety/Health (Ireland, 1999). OEL: 10 mg/m ³
	Arbeidsinspectie (Netherlands, 1999). TGG 8 uur: 10 mg/m ³
	EH40-OES (United Kingdom (UK), 1997). TWA: 10 mg/m ³
	ACGIH (United States, 1994). TWA: 10 mg/m ³ Form: Mist
	OSHA Final Rule (United States, 1989). TWA: 5 mg/m ³ Form: Respirable fraction TWA: 10 mg/m ³ Form: Total dust
SODIUM PHOSPHATE, DIBASIC, ANHYDROUS	Not available.
Potassium Phosphate, Monobasic	Not available.
METHYLENE BLUE	Not available.
Azure A	Not available.
WRIGHT STAIN	Not available.

Section 9. Physical and Chemical Properties

Odor Alcohol like. (Slight.)

Color Purple.

Physical State and Appearance Liquid.

Molecular Weight Not applicable.

Molecular Formula Not applicable.

pH Not available.

Boiling/Condensation Point 64.5°C (148.1°F)

Melting/Freezing Point -98°C (-144.4°F)

Specific Gravity 0.791 (Water = 1)

Vapor Pressure 12.9 kPa (97 mmHg) (@ 20°C)

Vapor Density 1.1 (Air = 1)

Volatility 99.9% (v/v). (METHANOL.)

Odor Threshold The lowest known value is 100 ppm (METHANOL)

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Evaporation Rate 5.91 compared to Butyl acetate.

VOC 100 (%)

LogK_{ow} Not available.

Solubility Soluble in water.

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Conditions of Instability Not available.

Incompatibility with Various Substances Highly reactive with oxidizing agents, metals, acids.
Slightly reactive to reactive with reducing agents, alkalis.

Rem/Incompatibility Avoid contact with strong oxiders, excessive heat, sparks or open flame.

Hazardous Decomposition Products CO_x , Formaldehyde.

Hazardous Polymerization Will not occur.

Section 11. Toxicological Information

RTECS Number:	Methanol	PC1400000
	Giemsa Stain	Not available.
	Glycerol	MA8050000
	Sodium Phosphate, Dibasic, Anhydrous, GR	WC4500000
	Potassium Phosphate	TC6615500
	Methylene Blue Chloride	SO5600000
	Azure A	SP5660000
	Wright Stain	Not available.

Toxicity Acute oral toxicity (LD₅₀): 5628 mg/kg [Rat]. (METHANOL).
Acute dermal toxicity (LD₅₀): 15800 mg/kg [Rabbit]. (METHANOL).
Acute toxicity of the vapor (LC₅₀): 64000 ppm 4 hour(s) [Rat]. (METHANOL).

Chronic Effects on Humans Not available.

Acute Effects on Humans Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching. May be hazardous in case of skin contact (permeator). Extremely hazardous in case of inhalation. May be fatal if inhaled. Extremely hazardous in case of ingestion. May be fatal if swallowed.

Synergetic Products (Toxicologically) Not available.

Irritancy Draize Test: Not available.

Sensitization Not available.

Carcinogenic Effects This material is not known to cause cancer in animals or humans.

Toxicity to Reproductive System Not available.

Teratogenic Effects Not available.

Mutagenic Effects Not available.

Section 12. Ecological Information

Ecotoxicity Not available.

BOD5 and COD Not available.

Toxicity of the Products of Biodegradation The products of degradation are as toxic as the product itself.

Section 13. Disposal Considerations

EPA Waste Number U154 D001

Treatment Specified Technology - Neutralize to pH 6-9. Contact your local permitted waste disposal site (TSD) for permissible treatment sites. ALWAYS CONTACT PERMITTED WASTE DISPOSER (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.

Section 14. Transport Information

DOT Classification Proper Shipping Name: METHANOL SOLUTION
Hazard Class: 3
UN number: UN1230
Packing Group: II
RQ: Not applicable.



TDG Classification Not available.

IMO/IMDG Classification Not available.

ICAO/IATA Classification Not available.

Section 15. Regulatory Information

U.S. Federal Regulations TSCA 8(b) inventory: METHANOL; GLYCERIN; SODIUM PHOSPHATE, DIBASIC, ANHYDROUS
; Potassium Phosphate, Monobasic; METHYLENE BLUE; Azure A; WRIGHT STAIN
SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: METHANOL; GLYCERIN; SODIUM PHOSPHATE, DIBASIC, ANHYDROUS
; METHYLENE BLUE
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: METHANOL: Fire Hazard, Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard; GLYCERIN: Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard; SODIUM PHOSPHATE, DIBASIC, ANHYDROUS
: Immediate (Acute) Health Hazard; METHYLENE BLUE: Delayed (Chronic) Health Hazard
SARA 313 toxic chemical notification and release reporting: METHANOL 93.93%
Clean Water Act (CWA) 307: No products were found.
Clean Water Act (CWA) 311: SODIUM PHOSPHATE, DIBASIC, ANHYDROUS

Clean air act (CAA) 112 accidental release prevention: No products were found.
Clean air act (CAA) 112 regulated flammable substances: No products were found.
Clean air act (CAA) 112 regulated toxic substances: No products were found.

WHMIS (Canada) CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).
Class D-1A: Material causing immediate and serious toxic effects (VERY TOXIC).
Class D-2B: Material causing other toxic effects (TOXIC).

CEPA DSL: METHANOL; GLYCERIN; SODIUM PHOSPHATE, DIBASIC, ANHYDROUS
; Potassium Phosphate, Monobasic; METHYLENE BLUE; Azure A; WRIGHT STAIN

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This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all required information.

International Regulations

EINECS

METHANOL	200-659-6
Giemsa Stain	Not available.
GLYCERIN	200-289-5
SODIUM PHOSPHATE, DIBASIC, ANHYDROUS	231-448-7
Potassium Phosphate, Monobasic	231-913-4
METHYLENE BLUE	200-515-2
Azure A	208-510-7
WRIGHT STAIN	273-541-5

DSCL (EEC)

R23/24/25- Toxic by inhalation, in contact with skin and if swallowed.
R39/23/24/25- Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

International Lists

Australia (NICNAS): METHANOL; GLYCERIN; SODIUM PHOSPHATE, DIBASIC, ANHYDROUS
; Potassium Phosphate, Monobasic; METHYLENE BLUE; Azure A; WRIGHT STAIN

Japan (MITI): METHANOL; GLYCERIN; SODIUM PHOSPHATE, DIBASIC, ANHYDROUS
; Potassium Phosphate, Monobasic; METHYLENE BLUE

Korea (TCCL): METHANOL; GLYCERIN; SODIUM PHOSPHATE, DIBASIC, ANHYDROUS
; Potassium Phosphate, Monobasic; METHYLENE BLUE

Philippines (RA6969): METHANOL; GLYCERIN; SODIUM PHOSPHATE, DIBASIC, ANHYDROUS

; Potassium Phosphate, Monobasic; METHYLENE BLUE; WRIGHT STAIN

China: No products were found.

State Regulations

Pennsylvania RTK: METHANOL: (environmental hazard, generic environmental hazard);
GLYCERIN: (generic environmental hazard); SODIUM PHOSPHATE, DIBASIC, ANHYDROUS
: (environmental hazard, generic environmental hazard)

Massachusetts RTK: METHANOL; GLYCERIN; SODIUM PHOSPHATE, DIBASIC, ANHYDROUS

New Jersey: Wright-Giemsa Fucillo Stain

California prop. 65: No products were found.

Section 16. Other Information

National Fire
Protection
Association
(U.S.A.)



Changed Since Last
Revision

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[Notice to Reader](#)

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