

Benz Microscope Optics Center, Inc. 3980 Varsity Drive Ann Arbor, MI 48108 Tel: 734-994-3880 Fax: 734-994-9090 email: benzmicroscope@aol.com

# Wright's Stain Set/2

Safety Data Sheets

Part # KK1250-SET

# **Kit Contains:**

1 x 15 mlWright's Blood Stain1 x 30 mlWright's Stain Buffer

# SDS No.: WW0060

# SAFETY DATA SHEET

FLAMMABLE STORAGE CODE RED
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Section 1	Identification	Page E1 of E2
OPTICS CENTER INC. Fa	enz Microscope Optics Center, Inc. 980 Varsity Drive nn Arbor, MI 48108 91: 734-994-3880 ax: 734-994-9090 mail: benzmicroscope@aol.com	CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory and industrial use only. Not for drug, food or household use.
Product WRI	IGHT'S BLOOD STAIN SOLUTION	
Synonyms None	e	
Section 2	Hazards identification	
GHS Classification Flammable liquid (C Acute toxicity, oral ( Acute toxicity, inhal STOT-SE (Category GHS Label inform	S02 / GHS06 / GHS08 entral nervous system, Liver, Kidneys, Heart	<ul> <li>Precautionary statement:</li> <li>P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.</li> <li>P241: Use explosion-proof electrical/ventilating/lighting equipment.</li> <li>P242: Use only non-sparking tools.</li> <li>P243: Take precautionary measures against static discharge.</li> <li>P260: Do not breathe/mist/vapours/spray.</li> <li>P264: Wash hands thoroughly after handling.</li> <li>P270: Do not eat, drink or smoke when using this product.</li> <li>P271: Use only outdoors or in a well-ventilated area.</li> <li>P280: Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P301+P310+P330: IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth.</li> <li>P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P308+P312: IF exposed or concerned: Call a POISON CENTER or doctor if you feel unwell.</li> <li>P370+P378: In case of fire: Use dry chemical, alcohol foam, carbon dioxide or water spray to extinguish.</li> <li>P403+P233+P235: Store in a well-ventilated place. Keep container tightly closed.</li> <li>Keep cool.</li> <li>P405: Store locked up.</li> <li>P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.</li> </ul>
Hazards not othe Health hazards not	erwise classified: otherwise classified (HHNOC) - Not Known	
,	ot otherwise classified (PHNOC) - Not Known	
Section 3	Composition / information on ingredients	

Section 3	Composition / information on ingredients							
Chemical Name		CAS #	%	EINECS				
Methanol Glycerin Wright's stain		67-56-1 56-81-5 68988-92-1	95.00% 4.99% <1%	200-659-6 200-289-5 273-541-5				
Section 4	First aid measures							

**INGESTION:** MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: VAPOR HARMFUL. HARMFUL IF INHALED. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: HARMFUL IN CONTACT WITH SKIN. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

# Section 5 Fire fighting measures

Suitable Extinguishing Media: Carbon dioxide, dry chemical, dry sand, alcohol foam.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

**Specific Hazards:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Fires involving a small amount of combustibles may be smothered by dry chemical. Vapors formed from this product are heavier than air and may travel along the ground to a distant source of ignition and flash back instanty. Closed containers exposed to heat may explode. Burns with a clear, almost invisible flame. Contact with strong oxidizers may cause fire.

# Section 6 Accidental release measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

**Containment and Cleanup:** Remove all sources of ignition. Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

#### Section 7 Handling and storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, well-ventilated area away from incompatible substances. Keep away from ignition sources.

Section 8	Exposure controls / personal protection					
Exposure Limiter	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
Exposure Limits:	Methanol	TWA: 262 mg/m <sup>3</sup> / STEL: 328 mg/m <sup>3</sup>	TWA: 260 mg/m <sup>3</sup>	TWA: 260 mg/m <sup>3</sup> / STEL: 325 mg/m <sup>3</sup>		

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

approved respirator.							
Section 9	Physical and chemical pro	operties					
Appearance: Liquid. Odor: Alcoholic odor Odor threshold: Dat pH: Data not availab Melting / Freezing po Boiling point: 65°C Flash point: 11°C (5	ta not available. le. p <b>int:</b> -98°C (-144°F)* (149°F)*	Evaporation rate ( Butyl acetate = 1): 4.6*       Partition coefficient: (n-octanol / water): Low Pow:82*         Flammability (solid/gas): Data not available.       Auto-ignition temperature: 463°C (867°F)*         Explosion limits: Lower / Upper: 7.3% / 36%       Decomposition temperature: Data not available.         Vapor pressure (mm Hg): 96 mm @ 20°C*       Viscosity: Data not available.         Vapor density (Air = 1): 1.11*       Molecular formula: Mixture         Relative density (Specific gravity): 0.79*       Molecular weight: Mixture         Solubility(ies): Complete in water.       *Methanol					
Section 10	Stability and reactivity						
Conditions to avoid Incompatible materi	Chemical stability:       Stable       Hazardous polymerization:       Will not occur.         Conditions to avoid:       Excessive temperatures, heat, sparks, open flame and other sources of ignition.       Incompatible materials:       Strong oxidizing agents, strong acids, zinc, aluminum and magnesium, reducers, alkalies.         Hazardous decomposition products:       Oxides of carbon and formaldehyde.						
Section 11	Toxicological information						
Skin corrosion/irrita Serious eye damage Respiratory or skin Germ cell mutageni Carcinogenity: Data NTP: No component IARC: No component OSHA: No component OSHA: No component CA Prop 65: A WAR Reproductive toxici STOT-single expost STOT-repeated expo Aspiration hazard: Potential health effe Inhalation: Ingestion Cannot be made non Skin: Contact with st Eyes: Contact with e	Acute toxicity: Oral-rat LD50: 5,628 mg/kg ; Inhalation-rat LC50: 64,000 mg/kg/4hours ; Skin-rabbit LD50: 15,800 mg/kg [Methanol] Skin corrosion/irritation: Data not available Respiratory or skin sensitization: Data not available Germ cell mutagenicity: Data not available Carcinogenity: Data not available NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. CA Prop 65: A WARNINGI : This product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. CA Prop 65: A WARNINGI : This product can expose you to Methanol, which is known to the State of California to cause birth defects or other reproductive harm. Reproductive toxicity: Data not available STOT-single exposure: The substance or mixture is classified as specific target organ toxicant, single exposure, category 1 with narcotic effects. STOT-repeated exposure: Data not available Aspiration hazard: Data not available Potential health effects: Inhalation: Inhalation of this material may cause irritation of the respiratory tract, nausea, shortness of breath and headache. Ingestion: Ingestion may cause headache, dizziness, weakness, euphoria, drowsiness, shortness of breath, vomiting and incoordination. Can also cause blindness and death. Cannot be made nonpoisonous. Skin: Contact with skin can cause moderate irritation, defatting, cracking and dermatitis. Skin absorption may contribute to overall exposure. Eyes: Contact with eyes can cause severe irritation, even comeal burns. High concentrations of vapors may cause irritation. Signs and symptoms of exposure: See Potential health effects above.						
Section 12	Ecological information						
Toxicity to fish: Lepomis macrochirus (fish, fresh water), LC50 = 15,400 mg/l/96 hours [Methanol]         Toxicity to daphnia and other aquatic invertebrates: Daphnia magna, EC50 = >10,000 mg/l/48 hours [Methanol]         Toxicity to algae: No data available         Persistence and degradability: Readily biodegradable         Mobility in soil: No data available         Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.							
Section 13 These disposal qui	Disposal considerations delines are intended for the o	lisposal of catal	og-size quantities or	ulv Federal regul	ations may ar	oply to empty o	ontainer State and/or local
	different. Dispose of in according to the different of the difference of						
UN/NA number:	•	ping name: M	ethanol solution				
Hazard class: 3	Pack ted quantity equal to or less that	ing group: II		Reportable Qua 2020 ERG Guid		Ма	rine pollutant: No
Section 15	Regulatory information						
	to be listed if the CAS number for t	he anhydrous form i	s on the Inventory list.				
Compone Methanol	nt	TSCA Listed	CERLCA (RQ) 5,000 lbs. (2270 kg)	RCRA code U154	DSL Listed	NDSL Not listed	CA Prop 65
Section 16	Other information						
The information contained	ed herein is furnished without warra						ered by them and must make indepen-

ndent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook. Form 06/2015

# SAFETY DATA SHEET

# **GENERAL STORAGE CODE GREEN**

Section 1 Identification	Page E1 of E2
Benz Microscope Optics Center, Inc. 3980 Varsity Drive Ann Arbor, MI 48108 Tel: 734-994-3880 Fax: 734-994-9090 email: benzmicroscope@aol.com	CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory and industrial use only. Not for drug, food or household use.
Product WRIGHT'S STAIN BUFFER	
Synonyms Giordano pH 6.4	
Section 2 Hazards identification	
This substance or mixture has not been classified as hazardous according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals. Signal word: None required Pictograms: No symbol required Target organs: None known GHS Classification: None required GHS Label information: Hazard statement: None required Precautionary statement: None required	Supplemental information: Do not breathe mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.

### Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3	Composition / information	Composition / information on ingredients					
Chemical Name		CAS #	%	EINECS			
Water Potassium phospl Sodium phosphat	hate, monobasic e, dibasic, anhydrous	7732-18-5 7778-77-0 7558-79-4	99.57% 0.70% 0.27%	231-791-2 231-913-4 231-448-7			
Section 4	First aid measures						

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: MAY CAUSE EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

## Section 5 Fire fighting measures

Suitable Extinguishing Media: Use extinguishing agent suitable for type of surrounding fire.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: In fire conditions, water may evaporate from this solution which may cause hazardous decomposition products to be formed as dust or fume.

# Section 6 Accidental release measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

# Section 7 Handling and storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, well-ventilated area.

Section 8	Exposure controls / personal protection					
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
Exposure Limits.	None of the solution components listed	Not established	Not established	Not established		

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

approved respirator.	approved respirator.						
Section 9	ection 9 Physical and chemical properties						
	istic odor. ta not available. le. Approximately 0°C (32°F) (water) imately 100°C (212°F) (water)	Evaporation rate ( Water = 1): <1Partition coefficient: Data not availableFlammability (solid/gas): Data not available.Auto-ignition temperature: Data not availableExplosion limits: Lower / Upper: Data not availableDecomposition temperature: Data not available.Vapor pressure (mm Hg): 14 (water)Viscosity: Data not available.Vapor density (Air = 1): 0.7 (water)Molecular formula: MixtureRelative density (Specific gravity): Approximately 1.0 (water)Molecular weight: Mixture					
Section 10	Stability and reactivity						
Chemical stability:       Stable       Hazardous polymerization:       Will not occur.         Conditions to avoid:       Excessive temperatures which cause evaporation.       Will not occur.         Incompatible materials:       None known.       Hazardous decomposition products:       Nitrogen oxides, phosphorous oxides.							
Section 11	Toxicological information	ı					
Skin corrosion/irrita Serious eye damage Respiratory or skin Germ cell mutageni Carcinogenity: Data NTP: No component IARC: No component OSHA: No component OSHA: No component OSHA: No component Ca Prop 65: This pro- Reproductive toxici STOT-single exposu STOT-repeated expo Aspiration hazard: Potential health effer Inhalation: May be ha Ingestion: May be ha Skin: Contact may ca Eyes: Contact may ca Signs and symptom not available. Exercisi	of this product present at level of this product present at level to this product present at level duct does not contain any cher ty: Data not available tre: Data not available Data not available Data not available cets: armful by inhalation. armful f swallowed. ause irritation.	able s greater than or e ls greater than or els greater than or nicals known to th f our knowledge th ninimize potential	equal to 0.1% is ident r equal to 0.1% is iden e State of California to the chemical, physical a hazards.	ified as probable, pos tified as a carcinoger o cause cancer or rep and toxicological prop	ssible or confir n or potential c productive toxic	med human carc arcinogen by OS city.	
Section 12	Ecological information		tej, wo400000 [000	ium phosphatej			
Toxicity to daphnia a Toxicity to algae: No Persistence and deg Mobility in soil: No Other adverse effect	nbow trout (fish, fresh water), l and other aquatic invertebra o data available gradability: No data available data available ts: An environmental hazard o	tes: Daphnia mag Bioaccumu PBT and vi	na (Crustacea), EC50 ulative potential: No PvB assessment: No	: >100 mg/L/48 hours data available o data available		sphate]	
	Disposal considerations delines are intended for the different. Dispose of in acc	i					ontainer. State and/or local mical disposal agency.
Section 14	Transport information						
Hazard class: No Exceptions: Not	UN/NA number:       Not applicable       Shipping name:       Not Regulated         Hazard class:       Not applicable       Packing group:       Not applicable       Reportable Quantity:       Marine pollutant:       No         Exceptions:       Not applicable       2020 ERG Guide #       Not applicable       Reportable Quantity:       Marine pollutant:       No						rine pollutant: No
Section 15	Regulatory information						
A chemical is considered Compone	to be listed if the CAS number for nt	the anhydrous form	is on the Inventory list.	RCRA code	DSL	NDSL	CA Prop 65
Potassium phosphate Sodium phosphate		Listed	Not listed Not listed	Not listed Not listed	Listed Listed	Not listed Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.
Section 16	Other information						
							ered by them and must make indepen- s. NTP: National Toxicology Program,

The information contained herein is turnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

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