

**MSDS****Material Safety Data Sheet**

24 HOUR EMERGENCY  
TELEPHONE NUMBER  
**CALL CHEMTREC**  
**1-800-424-9300**

189 Twin County Road • Morgantown, PA 19543 • (610) 524-5810

ES900 is a Wright's stain kit, comprised of multiple components. The components are listed separately, according to product name. Each kit is comprised of a bottle of Wright's Stain, Hematology Rinse, and a Buffer.

### WRIGHT'S STAIN (WRIGHT'S STAIN PACK)

#### Product Identification

**Product Name:** Wright's Stain  
**Product Code:** ES900 (component of kit)

<b>Health</b>	1
<b>Flammability</b>	3
<b>Reactivity</b>	0
<b>Physical Hazard</b>	None

#### Section 1 - Shipping Data

**DOT Ground Shipping Name:** ORMD per 49 CFR Parts 171-180 **Tel. # for information:** (610) 524-5810  
**DOT Shipping Name:** Methanol  
**DOT Hazard Class:** Flammable Liquid **Emergency Tel. #:** (800) 424-9300  
**DOT Identification:** NA **Prepared by:** R.F.  
**Packing Group:** N

#### Section 2 - Hazardous Ingredients / Identity Information

CHEMICAL COMPONENTS	CAS#	OSHA PEL, ACGIH TLV
Methyl Alcohol	67-56-1	200/250
Wright's Stain	68988-92-1	NA

#### Section 3 - Physical / Chemical Characteristics

<b>Boiling Point:</b>	148° F	<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	0.79
<b>Vapor Pressure (mm Hg and Temperature):</b>	96 @ 20° C	<b>Evaporation Rate ( n-butyl alcohol= 1):</b>	>1
<b>Vapor Density (AIR=1):</b>	1.11	<b>Solubility in Water:</b>	Complete
<b>Percent Volatile by Vol.:</b> 91%			
<b>Appearance and Odor:</b> Blue liquid/pungent odor			

#### Section 4 - Fire and Explosion Hazard Data

**Flash Point (Method Used):** 54° F (TCC)                      **Flammability Limits:** LEL 6.7 UEL 36

**Extinguishing Media:** Water spray, dry chemical, CO<sub>2</sub>, foam for alcohol

**Special Fire Fighting Procedures:** Wear protective clothing with NIOSH approved breathing apparatus. Products of combustion may be harmful in a fire situation. Do not use direct water stream.

**Unusual Fire and Explosive Hazards:** Eliminate sources of ignition. Burns with invisible flame.

#### Section 5 - Reactivity Data

**Stability:** Stable    **Conditions to Avoid:** Excessive heat, sparks, or flames

**Hazardous decomposition or byproducts:** Oxides of carbon    **Hazardous polymerization:** Does not occur

**Incompatibility (Materials to Avoid):** Strong oxidizers, chromic anhydride, perchloric acids etc.

#### Section 6 - Health Hazard Data

Routes of Entry	Inhalation?	Skin Absorption?	Ingestion?
	yes	yes	yes

**Carcinogenicity?**  
no

**Health Hazards (Acute and Chronic):** Acute: Vapors may cause eyes, skin and respiratory irritation, drowsiness, nausea, headache and vomiting.  
Chronic: May cause liver, heart and kidney damage. May cause gastrointestinal disturbances and convulsions.

**Signs and Symptoms of Exposure:** Vision blurring, drowsiness and headache.

**Emergency and First Aid Procedures:**

*Seek medical assistance for further treatment, observation and support if necessary.*

**Eye Contact:** Thoroughly flush eyes with water. Contact a physician if irritation persists.

**Skin contact:** Remove contaminated clothing and flush with water. Get medical attention if irritation persists.

**Ingestion:** Rinse mouth thoroughly with water, provided person is conscious, and contact a physician.

**Inhalation:** Remove person to fresh air. If not breathing, give artificial respiration and contact physician.

#### Section 7 - Precautions For Safe Handling and Use

**Steps to be Taken In Case of Spill Or Release:** Eliminate source of ignition in vicinity of the spill or released vapor. Isolate the spill with sand or other absorbent material. Place all contaminated material in closed container for disposal.

**Waste Disposal Methods:** All liquid and or contaminated material should be disposed of in DOT approved waste containers. Incineration for liquids is the suggested method of disposal. Comply with all Federal, State, and Local regulations for disposal.

**Precautions for handling and storage:** Use precautions for flammable liquids. Avoid excessive heat and sources of ignition. For large quantities, store in flammable safety cabinet. Use in well-ventilated area.

#### Section 8- Control Measures

**Respiratory Protection (Specify Type):** Not normally required. If used in a poorly ventilated area use under an approved fume hood or NIOSH approved respirator.

**Ventilation:** Special flammable exhaust hood if vapor concentration is high. In well-ventilated areas, mechanical exhaust is sufficient.

**Protective Gloves:** Chemical resistant

**Eye Protection:** Laboratory safety goggles or similar products are recommended.

**Other Protective Clothing And Equipment:** Normal laboratory apparel suggested by Good Laboratory Practices

**Hygienic Work Practices:** Wash thoroughly with soap and water after handling.

## HEMATOLOGY RINSE, Ph 7.0 MATERIAL SAFETY DATA SHEET

<b>Product Identification</b>											
<b>Product Name:</b>	WrightWright-Giemsa Hematology Rinse										
<b>Product Code:</b>	ES900 (component of kit), ES901 (component of kit)										
<table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 50%; padding: 5px;"><b>Health</b></td> <td style="padding: 5px;">1</td> </tr> <tr> <td style="padding: 5px;"><b>Flammability</b></td> <td style="padding: 5px;">0</td> </tr> <tr> <td style="padding: 5px;"><b>Reactivity</b></td> <td style="padding: 5px;">0</td> </tr> <tr> <td style="padding: 5px;"><b>Physical Hazard</b></td> <td style="padding: 5px;">None</td> </tr> </tbody> </table>				<b>Health</b>	1	<b>Flammability</b>	0	<b>Reactivity</b>	0	<b>Physical Hazard</b>	None
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<b>Flammability</b>	0										
<b>Reactivity</b>	0										
<b>Physical Hazard</b>	None										
<b>Section 1 - Shipping Data</b>											
<b>DOT Shipping Name:*</b>	Not Regulated For Shipping	<b>Tel. # for information:</b>	(610) 524-5810								
<b>DOT Hazard Class:</b>	Not Applicable	<b>Emergency Tel. #:</b>	(800) 424-9300								
<b>DOT Identification:</b>	Not Applicable	<b>Prepared by:</b>	P.B.								
<b>Section 2 - Hazardous Ingredients / Identity Information</b>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">CHEMICAL COMPONENTS</th> <th style="width: 15%;">CAS#</th> <th style="width: 20%;">OSHA PEL</th> <th style="width: 25%;">ACGIH TLV</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Phosphate Salts</td> <td style="padding: 5px;">7778-77-0 10049-21-0</td> <td style="padding: 5px;">NA</td> <td style="padding: 5px;">NA</td> </tr> </tbody> </table>				CHEMICAL COMPONENTS	CAS#	OSHA PEL	ACGIH TLV	Phosphate Salts	7778-77-0 10049-21-0	NA	NA
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Phosphate Salts	7778-77-0 10049-21-0	NA	NA								
<b>Section 3 - Physical / Chemical Characteristics</b>											
<b>Boiling Point:</b>	212° F	<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	~1								
<b>Vapor Pressure (mm Hg and Temperature):</b>	NE	<b>Evaporation Rate (ether= 1):</b>	>1								
<b>Vapor Density (AIR=1):</b>	NE	<b>Solubility in Water:</b>	Complete								
<b>Percent volatile by Vol.:</b> 0%											
<b>Appearance and Odor:</b> Clear, colorless liquid.											
<b>Section 4 - Fire and Explosion Hazard Data</b>											
<b>Flash Point (Method Used):</b> Not Flammable		<b>Flammability Limits:</b> NA									
<b>Extinguishing Media:</b> Water spray, dry chemical, CO <sub>2</sub> , and foam.											
<b>Special Fire Fighting Procedures:</b> Wear protective clothing with NIOSH approved breathing apparatus. Products of combustion may be harmful in a fire situation.											
<b>Unusual Fire and Explosive Hazards:</b> May emit toxic fumes under fire conditions.											

**Section 5 - Reactivity Data**

**Stability:** Stable **Conditions to Avoid:** Excessive heat, sparks or flames  
**Incompatibility (Materials to Avoid):** Strong oxidizers, chromic anhydride, perchloric acids.  
**Hazardous decomposition or byproducts:** Phosphates, oxides of carbon.  
**Hazardous polymerization:** Does not occur.  
**Precautions to be taken in Handling and Storage:** Normal laboratory precautions

**Section 6 - Health Hazard Data**

<b>Routes of Entry</b>	<b>Inhalation?</b>	<b>Skin Absorption?</b>	<b>Ingestion?</b>
	yes	yes	yes

**Carcinogenicity?**  
no

**Health Hazards (Acute and Chronic):** Acute: May cause eyes, skin and respiratory irritation.  
Chronic: NA

**Signs and Symptoms of Exposure:** NA

**Emergency and First Aid Procedures:**

*Seek medical assistance for further treatment, observation and support if necessary.*

**Eye Contact:** Thoroughly flush eyes with water. Contact a physician if irritation persists.

**Skin contact:** Remove contaminated clothing and wash affected area with soap and water.

**Ingestion:** Rinse mouth thoroughly with water, provided person is conscious and contact a physician.

**Inhalation:** Remove person to fresh air. If not breathing, give artificial respiration and contact physician.

**Section 7 - Precautions For Safe Handling and Use**

**Steps to be Taken In Case of Spill Or Release:** Isolate the spill area with sand, or other absorbent material. Place all contaminated material in closed container for disposal.

**Waste Disposal Methods:** All liquid and/or contaminated material should be disposed of in DOT approved waste containers. Incineration for liquids is the suggested method of disposal. Comply with all Federal, State and Local regulations for disposal.

**Precautions for handling and storage:** Use normal precautions.

**Section 8- Control Measures**

**Respiratory Protection (Specify Type):** Not normally required.

**Ventilation:** Mechanical exhaust is sufficient.

**Protective Gloves:** Normal apparel suggested by Good Laboratory Practices.

**Eye Protection:** Laboratory safety goggles or similar products are recommended.

**Other Protective Clothing And Equipment:** Normal laboratory apparel suggested by Good Laboratory Practices.

**Hygienic Work Practices:** Wash thoroughly with soap and water after handling.

## HEMATOLOGY BUFFER MATERIAL SAFETY DATA SHEET

**Product Identification**

**Product Name:** Hematology Buffer  
**Product Code:** ES900 (component of kit), ES901 (component of kit)  
 Hematology buffer in Wright's/Wright's Giemsa stain packs is considered non-hazardous

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