



MATERIAL SAFETY DATA SHEET

Section 1 Company and Product Identification

Product Name	Wright Stain	Doc. ID 7547177-75 AC Issued (year/month/day) Revised (year/month/day) 2006/04/13
Part Number	7547177	
Product Use	For In Vitro Diagnostic Use. See product literature for details.	
Series Name	TruColor™	
Manufacturer	Manufactured for Beckman Coulter, Inc. 4300 Harbor Blvd. Fullerton, CA 92835-3100, U.S.A. ECREP Address: Beckman Coulter Ireland, Inc. Mervue Business Park, Mervue, Galway, Ireland 353 91 774068	
Distributor and Emergency Phone No.		Refer to attached list, Document ID: 472050, for local distributor and emergency phone numbers.

Section 2 Composition and Information on Ingredients

Hazardous Ingredients:			Meets Hazardous Criteria:		
Chemical Name	CAS #	% by wt.	<u>EU</u>	<u>US OSHA</u>	<u>WHMIS</u>
Methanol	67-56-1	99%	F;R11 T;R23/24/25-39/23/24/25	Yes	Exempt
Wright's Stain	68988-92-1	1%	No	Yes	Exempt
See Section 15 Regulatory Information for additional information on hazard classifications.					

Section 3 Hazards Identification

Emergency Overview	Purple; Transparent; Liquid; Alcohol odor Flammable liquid and vapor. CNS depressant. Eye, skin and respiratory tract irritant. Toxic by inhalation, ingestion and skin contact.
Physical Hazards	Flammable component of solution may present fire hazard at elevated temperatures.
Potential Health Effects Summary	May cause eye, skin and respiratory tract irritation and central nervous system depression with headache, dizziness, nausea and unconsciousness. Over-exposure may lead to redness, itching, burning of eyes and skin, tearing of eyes, and blindness. Central nervous system depression that may result in coma and death. See Section 11 Toxicological Information for more detailed health information.

Section 3 Hazards Identification (Continued)

Product Hazard Classifications	EU: F;R11 T;R39/23/24/25-23/24/25	WHMIS: Exempt	US OSHA: Hazardous
Beckman Coulter Safety Rating	Flammability (Section V): 3 Health (Section XI): 2 Reactivity with Water (Section X): 0 Contact (Section VIII): 2	Code 0=none 1=slight 2=caution 3=severe	

Section 4 First Aid Measures

Inhalation	If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration immediately and obtain medical attention.
Eye Contact	If product enters eyes, wash eyes gently under running water for 15 minutes or longer, making sure that the eyelids are held open. If pain or irritation occur, obtain medical attention.
Skin Contact	In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If pain or irritation occur, obtain medical attention.
Ingestion	If ingested, wash mouth out with water. If irritation or discomfort occurs, seek medical attention.

Section 5 Fire Fighting Measures

Flash Point	11.1°C(51.98°F)
Flammable Limits	Lower flammable limit = 6.0%; Upper flammable limit = 36% (data for methyl alcohol)
Autoignition Temp.	464.1°C(867.38°F)
Extinguishing Media	Use extinguishing media suitable for surrounding fire.
Special Fire and Explosion Hazards	Vapors form explosive mixtures with air. Vapors are heavier than air; fire may flash from ignition source back along vapor trail.
Hazardous Combustion Products	Thermal decomposition may produce oxides of carbon.
Protective Equipment for Firefighters	Self-contained breathing apparatus is recommended for firefighters.

Section 6 Accidental Release Measures

Personal Precautions	Use good laboratory procedures; avoid eye and skin contact.
Spill and Leak Procedures	Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations.
Environmental Precautions	Contain spill to prevent migration.

Section 7 Handling and Storage

Handling Precautions	Use in well ventilated area away from heat or ignition sources. Use good laboratory procedures; avoid eye and skin contact.
Recommended Storage Conditions	Keep away from incompatible material (see Section 10). To maintain efficacy, store according to the instructions in the product labeling.

Wright Stain		MSDS # 7547177-75 AC	Page 3 of 6
Section 8 Exposure Controls and Personal Protection			
Exposure Limits			
US OSHA:			
Methanol	200 ppm TWA; 260 mg/m3 TWA		
ACGIH:			
Methanol	Skin—potential significant contribution to overall exposure by the cutaneous route; 250 ppm STEL; 200 ppm TWA		
DFG MAK:			
Methanol	200 ppm MAK; 270 mg/m3 MAK; 800 ppm Peak; 1080 mg/m3 Peak; skin notation		
Engineering Controls	Use in well ventilated area.		
Respiratory Protection	Under normal conditions, the use of this product should not require respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should be evaluated by a qualified professional.		
Eye Protection	Safety glasses or chemical goggles should be worn to prevent eye contact.		
Skin Protection	Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin contact.		

Section 9 Physical and Chemical Properties	
Physical State	Liquid
Color	Purple
Transparency	Transparent
Odor	Alcohol odor
Odor Threshold	Methanol geometric mean air odor threshold = 160 ppm (detectable); 690 ppm (recognizable)
pH	Not applicable
Boiling Point	64.5°C(148.1°F)
Melting Point	-98°C(-144.4°F)
Specific Gravity	0.791 @20°C
Vapor Pressure	97 mm Hg @25°C
Vapor Density	1.1 (air=1)
Evaporation Rate	5.91 (butyl acetate=1)
Solubility	
Water	Miscible
Organic	Miscible with alcohol and ether

Section 10 Stability and Reactivity	
Stability	Stable in closed containers under normal temperatures and pressures.

Section 10 Stability and Reactivity (Continued)

Hazardous Incompatibilities	Strong oxidizers Acids Metals and metallic compounds
Hazardous Decomposition Products	Thermal decomposition may produce oxides of carbon.
Conditions to Avoid	Avoid contact with heat, ignition sources and incompatible materials.

Section 11 Toxicological Information

Toxicity Data for Hazardous Ingredients Methanol	Inhalation LC50 Rat: 83.2 mg/L/4H; Inhalation LC50 Rat: 64000 ppm/4H; Oral LD50 Rat: 5628 mg/kg; Dermal LD50 Rabbit: 15800 mg/kg
Primary Routes of Exposure	The most likely routes of exposure are skin and eye contact. Inhalation may occur if mists are formed in product use.
Potential Effects of Acute Exposure	Methanol may cause irritation to skin, eyes and respiratory systems. Ingestion and absorption through the skin may cause kidney impairment and blindness. Overexposure may lead to acidosis, convulsions, circulatory collapse, respiratory failure and death.
Potential Effects of Chronic Exposure	Frequent or long-term exposure may result in central nervous system depression, conjunctivitis and dermatitis. Animal studies indicate repeated ingestion of small amounts can cause severe kidney damage.
Symptoms of Overexposure	Symptoms of overexposure may include: eye, skin, nose and throat irritation; headache, weakness, dizziness, confusion, nausea and vomiting. Severe cases may exhibit difficulty in breathing, irregular heartbeat, reddish colored skin, unconsciousness, convulsions, coma and death. Symptoms may be delayed for several hours after exposure.
Carcinogenicity	No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or 67/548/EEC Annex I.
Other Effects	None identified.
Conditions Aggravated by Exposure	Individuals with eye, skin or kidney disorders may find these conditions aggravated by exposure to this product.

Section 12 Ecological Information

Ecotoxicity	No information available.
Biodegradability	No information available.
Mobility	No information available.

Section 13 Disposal Considerations

Waste Disposal	Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.
-----------------------	---

Section 14 Transport Information

Shipping Information	<table style="width: 100%;"> <tr> <td style="width: 50%;">Shipping Name</td><td>Methanol Solution</td></tr> <tr> <td>UN/ID Number</td><td>1230</td></tr> <tr> <td>Packing Group</td><td>II</td></tr> </table>	Shipping Name	Methanol Solution	UN/ID Number	1230	Packing Group	II				
Shipping Name	Methanol Solution										
UN/ID Number	1230										
Packing Group	II										
IATA	<table style="width: 100%;"> <tr> <td style="width: 50%;">Hazard Class</td><td>3 Flammable Liquids</td></tr> <tr> <td>Subsidiary Risk</td><td>6.1 Toxic substances</td></tr> <tr> <td>Special Provisions</td><td>A104; A113</td></tr> <tr> <td>IATA ERG Code</td><td>3P</td></tr> </table>	Hazard Class	3 Flammable Liquids	Subsidiary Risk	6.1 Toxic substances	Special Provisions	A104; A113	IATA ERG Code	3P		
Hazard Class	3 Flammable Liquids										
Subsidiary Risk	6.1 Toxic substances										
Special Provisions	A104; A113										
IATA ERG Code	3P										
IMDG	<table style="width: 100%;"> <tr> <td style="width: 50%;">Hazard Class</td><td>3 Flammable liquids</td></tr> <tr> <td>Subsidiary Risk</td><td>6.1 Toxic substances</td></tr> <tr> <td>Special Provisions</td><td>279</td></tr> <tr> <td>Marine Pollutant</td><td>No</td></tr> </table>	Hazard Class	3 Flammable liquids	Subsidiary Risk	6.1 Toxic substances	Special Provisions	279	Marine Pollutant	No		
Hazard Class	3 Flammable liquids										
Subsidiary Risk	6.1 Toxic substances										
Special Provisions	279										
Marine Pollutant	No										
US DOT	<table style="width: 100%;"> <tr> <td style="width: 50%;">Hazard Class</td><td>3 Flammable liquid</td></tr> <tr> <td>Subsidiary Risk</td><td>6.1 Toxic substances</td></tr> <tr> <td>Special Provisions</td><td>Not applicable</td></tr> <tr> <td>NAERG Number</td><td>131</td></tr> </table>	Hazard Class	3 Flammable liquid	Subsidiary Risk	6.1 Toxic substances	Special Provisions	Not applicable	NAERG Number	131		
Hazard Class	3 Flammable liquid										
Subsidiary Risk	6.1 Toxic substances										
Special Provisions	Not applicable										
NAERG Number	131										
European ADR	<table style="width: 100%;"> <tr> <td style="width: 50%;">ADR Classification</td><td>3 Flammable Liquids</td></tr> <tr> <td>Classification Code/</td><td>FT1</td></tr> <tr> <td>Subsidiary Risk</td><td>Toxic substances 6.1</td></tr> </table>	ADR Classification	3 Flammable Liquids	Classification Code/	FT1	Subsidiary Risk	Toxic substances 6.1				
ADR Classification	3 Flammable Liquids										
Classification Code/	FT1										
Subsidiary Risk	Toxic substances 6.1										
Canadian TDG	<table style="width: 100%;"> <tr> <td style="width: 50%;">PIN</td><td>1230</td></tr> <tr> <td>TDG Classification</td><td>3 Flammable Liquids</td></tr> <tr> <td>Subsidiary Risk</td><td>6.1 Toxic substances</td></tr> <tr> <td>Special Provisions</td><td>43</td></tr> <tr> <td>NAERG Number</td><td>131</td></tr> </table>	PIN	1230	TDG Classification	3 Flammable Liquids	Subsidiary Risk	6.1 Toxic substances	Special Provisions	43	NAERG Number	131
PIN	1230										
TDG Classification	3 Flammable Liquids										
Subsidiary Risk	6.1 Toxic substances										
Special Provisions	43										
NAERG Number	131										

Section 15 Regulatory Information
--

US Federal and State Regulations	
SARA 313	Methanol is subject to reporting requirements of Section 313, Title III of SARA.
CERCLA RG's, 40 CFR 302.4	Methanol is listed.
California Proposition 65	No ingredients listed
Massachusetts MSL	Methanol is listed.
New Jersey Dept. of Health RTK List	Methanol is listed.
Pennsylvania RTK	Methanol is listed.

Section 15 Regulatory Information (Continued)**EU Labeling Classification****Classification**Highly
flammable

Toxic

Risk and Safety Phrases

R11 Highly flammable.

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.

S16 Keep away from sources of ignition—No smoking.

S36/37 Wear suitable protective clothing and gloves.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S7 Keep container tightly closed.

Canada

This product is exempt from WHMIS label and MSDS requirements.

PIN:

1230

**Ingredients on Ingredient
Disclosure List:**

Methanol

**Ingredients with unknown
toxicological properties:**

Product is exempt

Section 16 Other Information

For further information, please contact your local Beckman Coulter representative.

WHILE BECKMAN COULTER, INC. BELIEVES THE INFORMATION CONTAINED HEREIN IS VALID AND ACCURATE, BECKMAN COULTER MAKES NO WARRANTY OR REPRESENTATION AS TO ITS VALIDITY, ACCURACY, OR CURRENCY. BECKMAN COULTER SHALL NOT BE LIABLE OR OTHERWISE RESPONSIBLE IN ANY WAY FOR USE OF EITHER THIS INFORMATION OR MATERIALS TO WHICH IT APPLIES. DISPOSAL OF HAZARDOUS MATERIALS MAY BE SUBJECT TO LOCAL LAWS OR REGULATIONS.

Printed in U.S.A.