




# MATERIAL SAFETY DATA SHEET

## Section 1 Company and Product Identification

Product Name	HEMASTAIN® WRIGHT STAIN SOLUTION	Doc. ID 756314-75 AA Issued (year/month/day) 21/06/2001
Part Number	756314	
Series Name	HEMASTAIN®	
Manufacturer	Beckman Coulter, Inc. 4300 Harbor Blvd. Fullerton, CA 92834-3100, U.S.A.	
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
See Section 15 Regulatory Information for additional information on hazard classifications.					

## Section 3 Hazards Identification

<b>Emergency Overview</b>	<p>Blue; Opaque; Liquid; Alcohol odor Flammable liquid and vapor. Skin and eye irritant; moderately toxic if swallowed. CNS depressant.</p>		
<b>Physical Hazards</b>	Flammable component of solution may present fire hazard at elevated temperatures.		
<b>Potential Health Effects Summary</b>	<p>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.</p>		
<b>Product Hazard Classifications</b>	<b>EU:</b> F;R11 T;R39/23/24/25	<b>WHMIS:</b> Exempt	<b>US OSHA:</b> Hazardous

**Section 3 Hazards Identification (Continued)**

<b>Beckman Coulter Safety Rating</b>	<b>Flammability (Section V): 2</b> <b>Health (Section XI): 2</b> <b>Reactivity with Water (Section X): 2</b> <b>Contact (Section VIII): 1</b>	<b>Code</b> 0=none 1=slight 2=caution 3=severe
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**Section 4 First Aid Measures**

<b>Inhalation</b>	If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration immediately and obtain medical attention.
<b>Eye Contact</b>	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.
<b>Skin Contact</b>	In case of skin contact, flush with copious amounts of water for at least 15 minutes. If pain or irritation occur, obtain medical attention.
<b>Ingestion</b>	If ingested, wash mouth out with water. Contact local poison control center for assistance. Seek medical attention immediately.

**Section 5 Fire Fighting Measures**

<b>Flash Point</b>	12°C(53.6°F)
<b>Flammable Limits</b>	Not applicable
<b>Autoignition Temp.</b>	Not available
<b>Extinguishing Media</b>	Use extinguishing media suitable for surrounding fire.
<b>Special Fire and Explosion Hazards</b>	None identified.
<b>Hazardous Combustion Products</b>	No combustion products posing significant hazards are expected from this product.
<b>Protective Equipment for Firefighters</b>	Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.

**Section 6 Accidental Release Measures**

<b>Personal Precautions</b>	No special precautions are necessary. Use good laboratory procedures.
<b>Spill and Leak Procedures</b>	Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations.
<b>Environmental Precautions</b>	Contain spill to prevent migration.

**Section 7 Handling and Storage**

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

**Section 8 Exposure Controls and Personal Protection****Exposure Limits****US OSHA:**

Methanol 200 ppm TWA; 260 mg/m3 TWA

**ACGIH:**Methanol skin—potential for cutaneous absorption; 250 ppm STEL;  
200 ppm TWA**DFG MAK:**

Methanol 200 ppm MAK; 270 mg/m3 MAK; Category II, 2; danger of cutaneous absorption

**Engineering Controls**

No special engineering controls are required. Use with good general ventilation.

**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 should be worn to prevent eye contact.

**Skin Protection**

Impervious gloves, such as latex or equivalent, should be worn to prevent skin contact.

**Section 9 Physical and Chemical Properties****Physical State**

Liquid

**Color**

Blue

**Transparency**

Opaque

**Odor**

Alcohol odor

**Odor Threshold**

Methanol geometric mean air odor threshold = 160 ppm (detectable); 690 ppm (recognizable)

**pH**

Not applicable

**Boiling Point**

≈65°C(149°F)

**Melting Point**

-98°C(-144.4°F)

**Specific Gravity**

0.79 @20°C

**Vapor Pressure**

100 mm Hg @25°C

**Vapor Density**

1.11 (air=1)

**Evaporation Rate**

5 (butyl acetate=1)

**Solubility****Water**

Miscible

**Organic**

Not available

**Section 10 Stability and Reactivity****Stability**

Stable under normal temperatures and pressures.

**Section 10 Stability and Reactivity (Continued)**

<b>Hazardous Incompatibilities</b>	Strong oxidizers Acids Bases Halogens Halogenated hydrocarbons Reducing agents Alkali metals
<b>Hazardous Decomposition Products</b>	Carbon monoxide Carbon dioxide Formaldehyde
<b>Conditions to Avoid</b>	Avoid contact with incompatible materials.

**Section 11 Toxicological Information**

<b>Toxicity Data for Hazardous Ingredients</b> Methanol	Inhalation LC50 Rat : 64000 ppm/4H Oral LD50 Rat : 5628 mg/kg Oral LD50 Mouse : 7300 mg/kg Dermal LD50 Rabbit : 15800 mg/kg
<b>Primary Routes of Exposure</b>	Eye contact, ingestion, inhalation, and skin contact.
<b>Potential Effects of Acute Exposure</b>	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.
<b>Potential Effects of Chronic Exposure</b>	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.
<b>Symptoms of Overexposure</b>	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.
<b>Carcinogenicity</b>	No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or 67/548/EEC Annex I.
<b>Other Effects</b>	None identified.
<b>Conditions Aggravated by Exposure</b>	Individuals with eye, skin or kidney disorders may find these conditions aggravated by exposure to this product.

**Section 12 Ecological Information**

<b>Ecotoxicity</b>	Methanol: LC50 (96 hr) fathead minnow (28-29 days old):29400 mg/L. Cond:25 degrees C, pH 7.63-7.69, 43.5 mg/L CaCo3.;LC50 (96 hr) rainbow trout (fingerling):13-68 mg/L. Cond. 12 degrees C.;LC50 (48 hr) trout:8000 mg/L.:
<b>Biodegradability</b>	No information available.
<b>Mobility</b>	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

### International Shipping Information

Shipping Name	Methanol
ICAO UN/ID Number	1230
IATA Packing Group	II

### US DOT

Hazard Class	Flammable liquid
Subsidiary Risk	Toxic substances
Special Provisions	Not applicable

### European ADR

ADR Classification	Substances having a flashpoint below 23°C and toxic
Subsidiary Risk	Not applicable
Special Provisions	Not applicable

### Canadian TDG

PIN	1230
TDG Classification	3.1: Flash point less than -18°C
Subsidiary Risk	6. Poisonous (toxic) and infectious substances
Special Provisions	Not applicable

## 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.
Florida Substance List	Methanol is listed.

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

Highly flammable



Toxic

**Risk and Safety Phrases**

R11 Highly flammable.

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

S27 Take off immediately all contaminated clothing.

S36/37 Wear suitable protective clothing and gloves.

S44 If you feel unwell, seek medical advice (show the label where possible).

S9 Keep container in a well-ventilated place.

**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.

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