



MATERIAL SAFETY DATA SHEET

Section 1 Company and Product Identification

Product Name	Hemocult®Developer	Doc. ID 62115-75 AB Issued (year/month/day) Revised (year/month/day) 2002/12/13
Part Number	60151, 60152, 61100, 61130, 61200, 61300, 62115, 63202	
Series Name	60000 Series	
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>
Hydrogen Peroxide	7722-84-1	<5%	No	Yes	Exempt
Ethanol-methanol mix	8013-52-3	>50%	F;R11 Xn;R20/21/22-68/20/21/22	Yes	Exempt
See Section 15 Regulatory Information for additional information on hazard classifications.					

Section 3 Hazards Identification

Emergency Overview	Colorless; Clear; Liquid; Alcohol odor Flammable liquid and vapor. CNS depressant. Eye, skin and respiratory tract irritant.		
Physical Hazards	Vapors of flammable ingredients are heavier than air and may travel to an ignition source, ignite and flash back.		
Potential Health Effects Summary	May cause eye, skin and respiratory tract irritation and central nervous system depression with headache, dizziness, nausea and unconsciousness. See Section 11 Toxicological Information for more detailed health information.		
Product Hazard Classifications	EU: Xn;R11-20/21/22-68/20/21/22	WHMIS: Exempt	US OSHA: Hazardous
Beckman Coulter Safety Rating	Flammability (Section V): 2 Health (Section XI): 2 Reactivity with Water (Section X): 2 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. 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	15°C(59°F)
Flammable Limits	Lower flammable limit: 3.3%; Upper flammable limit: 19%
Autoignition Temp.	Not available
Extinguishing Media	Dry chemical, carbon dioxide, regular foam or water spray.
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	Depending upon fire conditions, combustion products may range from irritants and asphyxiants to acutely toxic gases.
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	To maintain efficacy, store according to the instructions in the product labeling.

Section 8 Exposure Controls and Personal Protection

Exposure Limits	
US OSHA:	
Hydrogen Peroxide	1 ppm TWA; 1.4 mg/m3 TWA

Section 8 Exposure Controls and Personal Protection (Continued)**ACGIH:**

Hydrogen Peroxide 1 ppm TWA

DFG MAK:Hydrogen Peroxide 1 ppm MAK; 1.4 mg/m³ MAK; 1 ppm Peak; 1.4 mg/m³ Peak**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 or chemical goggles 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

Colorless

Transparency

Clear

Odor

Alcohol odor

Odor Threshold

Not applicable

pH

Not available

Boiling Point

80°C(176°F)

Melting Point

Not available

Specific Gravity

0.9 @20°C

Vapor Pressure

25 mm Hg @20°C

Vapor Density

1.6 (air=1)

Evaporation Rate

Not available

Solubility**Water**

Soluble

Organic

Not available

Section 10 Stability and Reactivity**Stability**

Stable under normal temperatures and pressures.

Hazardous Incompatibilities

Halogens
Strong bases
Strong oxidizers
Strong acids

Hazardous Decomposition Products

When stored as labeled, no known hazardous decomposition products are formed during the shelf-life of this product.

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Section 10 Stability and Reactivity (Continued)		
Conditions to Avoid	Avoid contact with heat, ignition sources and incompatible materials.	

Section 11 Toxicological Information	
Toxicity Data for Hazardous Ingredients Hydrogen Peroxide	Oral LD50 Rat: 1518 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	May cause irritation or burning of skin and eyes by contact. Inhalation and ingestion of large volumes may cause burning of mucous membrane, respiratory irritation, and central nervous system depression.
Potential Effects of Chronic Exposure	Chronic exposure may result in effects similar to those described for acute exposure. Frequent or long-term contact may dry out the skin resulting in dermatitis.
Symptoms of Overexposure	Symptoms of overexposure may include: throat irritation and coughing; dry, red, cracked skin; red irritated eyes; headache, drowsiness, dizziness, stupor; convulsions and coma.
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 and skin disorders may find these conditions aggravated by exposure to this product. Individuals with eye, kidney, liver and cardiovascular, nervous and respiratory system disorders may find these conditions aggravated by exposure to this product.

Section 12 Ecological Information	
Ecotoxicity	Toxic to fish and other water organisms.
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

International Shipping Information	Shipping Name		CONSUMER COMMODITY
	ICAO UN/ID Number		8000
	IATA Packing Group		II
	IATA	Hazard Class	9 Miscellaneous Dangerous Goods
		Subsidiary Risk	None
		Special Provisions	A112
	IMDG	Hazard Class	9 Miscellaneous dangerous substances and articles
		Subsidiary Risk	None
		Special Provisions	274 None
		Marine Pollutant	No
US DOT	Hazard Class		ORM-D
	Subsidiary Risk		None
	Special Provisions		None
European ADR	ADR Classification		9 Miscellaneous dangerous substances and articles
	Subsidiary Risk		None
	Item Number and Letter		None
Canadian TDG	PIN		8000
	TDG Classification		9 Miscellaneous Dangerous Goods
	Subsidiary Risk		None
	Special Provisions		None

Section 15 Regulatory Information

US Federal and State Regulations

SARA 313	No ingredients listed
CERCLA RG's, 40 CFR 302.4	No ingredients listed
California Proposition 65	No ingredients listed
Massachusetts MSL	Hydrogen Peroxide is listed.
New Jersey Dept. of Health RTK List	Hydrogen Peroxide is listed.
Pennsylvania RTK	Hydrogen Peroxide is listed.
Florida Substance List	Hydrogen Peroxide is listed.

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

Highly flammable

Xn



Harmful

Risk and Safety Phrases

R11 Highly flammable.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R68/20/21/22 Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

S16 Keep away from sources of ignition—No smoking.

Canada

This product is exempt from WHMIS label and MSDS requirements.

PIN:

8000

Ingredients on Ingredient Disclosure List:

Hydrogen Peroxide

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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