




MATERIAL SAFETY DATA SHEET

Section 1 Company and Product Identification

Product Name	Hemocult®ICT Extraction Buffer	Doc. ID <i>A17001 AA</i> Issued (year/month/day) <i>2004/04/14</i>
Part Number	395067	
Product Use	For In Vitro Diagnostic Use. See product literature for details.	
Manufacturer	Beckman Coulter, Inc. 4300 Harbor Blvd. Fullerton, CA 92835-3100, 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.	EU	US OSHA	WHMIS
octylphenoxypoly(ethoxyethanol)	9036-19-5	<2	No	Yes	Exempt
See Section 15 Regulatory Information for additional information on hazard classifications.					

Section 3 Hazards Identification

Emergency Overview	<p>Colorless; Transparent; Liquid; Odorless Nonflammable aqueous solution. Skin and eye irritant. Contains material of animal origin.</p>		
Physical Hazards	Sodium azide forms explosive compounds with heavy metals. This product contains concentrations of azide <0.1% (w/w) which with repeated contact with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds.		
Potential Health Effects Summary	<p>May cause mild irritation of skin and eyes.</p> <p>This product contains material of animal origin and should be considered as potentially capable of transmitting infectious diseases.</p>		
Product Hazard Classifications	EU: Not applicable	WHMIS: Exempt	US OSHA: Hazardous
Beckman Coulter Safety Rating	Flammability (Section V): 0 Health (Section XI): 1 Reactivity with Water (Section X): 0 Contact (Section VIII): 1		Code 0=none 1=slight 2=caution 3=severe

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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 is splashed in eyes, wash eyes under gently running water for several minutes, making sure that the eyelids are held open. If irritation or redness develops, 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. Contact local poison control center for assistance. Seek medical attention immediately.		

Section 5 Fire Fighting Measures	
Flash Point	Not applicable
Flammable Limits	Not applicable
Autoignition Temp.	Not applicable
Extinguishing Media	Use extinguishing media suitable for surrounding fire.
Special Fire and Explosion Hazards	No special hazards determined.
Hazardous Combustion Products	No combustion products posing significant hazards are expected from this product (a dilute aqueous solution).
Protective Equipment for Firefighters	Self-contained breathing apparatus is recommended for firefighters.

Section 6 Accidental Release Measures	
Personal Precautions	Safety glasses should be worn to prevent eye contact.
Spill and Leak Procedures	Wipe up material carefully and place in container suitable for disposal.
Environmental Precautions	Contain spill to prevent migration.

Section 7 Handling and Storage	
Handling Precautions	Safety glasses should be worn to prevent eye contact.
Recommended Storage Conditions	To maintain efficacy, store according to the instructions in the product labeling. Keep away from incompatible material.

Section 8 Exposure Controls and Personal Protection	
Exposure Limits	
US OSHA:	None established
ACGIH:	None established
DFG MAK:	None established

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Section 8 Exposure Controls and Personal Protection (Continued)			
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 latex or equivalent, should be worn to prevent skin contact.		

Section 9 Physical and Chemical Properties	
Physical State	Liquid
Color	Colorless
Transparency	Transparent
Odor	Odorless
Odor Threshold	Not applicable
pH	7.4
Boiling Point	100°C(212°F)
Melting Point	0°C(32°F)
Specific Gravity	1.005 @20°C
Vapor Pressure	Not available
Vapor Density	Not available
Evaporation Rate	Not available
Solubility	
Water	Miscible
Organic	Not available

Section 10 Stability and Reactivity	
Stability	Stable under normal temperatures and pressures.
Hazardous Incompatibilities	Metals and metallic compounds Sodium azide forms explosive compounds with heavy metals. This product contains concentrations of azide <0.1% (w/w) which with repeated contact with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds.
Hazardous Decomposition Products	When stored as labeled, no known hazardous decomposition products are formed during the shelf-life of this product.
Conditions to Avoid	Keep away from incompatible material.

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Section 11 Toxicological Information			
Toxicity Data for Hazardous Ingredients		Oral LD50 Rat: 4190 mg/kg; Oral LD50 Mouse: 3500 mg/kg	
octylphenoxypoly(ethoxyethanol)			
Primary Routes of Exposure		The most likely routes of exposure are skin, eye contact and inhalation.	
Potential Effects of Acute Exposure		Eye contact with concentrated octylphenoxypoly(ethoxyethanol) may result in severe irritation; permanent corneal damage may occur. Inhalation of mists may cause irritation of the upper respiratory tract. Ingestion may result in gastrointestinal irritation.	
Potential Effects of Chronic Exposure		Frequent or long-term exposure may result in conjunctivitis and dermatitis.	
Symptoms of Overexposure		Symptoms of overexposure may include: dry, red, cracked skin; red irritated eyes; nausea and vomiting.	
Carcinogenicity		This product does not contain a reportable concentration ($\geq 0.1\%$) of any ingredient listed as carcinogen by ACGIH, IARC, NTP, OSHA or 67/548/EEC Annex I.	
Other Effects		Animal studies with octylphenoxypoly(ethoxyethanol) indicate possible reproductive effects.	
Conditions Aggravated by Exposure		None identified.	

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. Sodium azide preservative may form explosive compounds in metal drain lines. See NIOSH Bulletin: Explosive Azide Hazard (8/16/76).

Section 14 Transport Information	
Transportation of this product is not regulated under ICAO, IMDG, US DOT, European ADR or Canadian TDG.	

Section 15 Regulatory Information	
US Federal and State Regulations	
SARA 313	Ethylene Oxide is subject to reporting requirements of Section 313, Title III of SARA. 1,4-Dioxane is subject to reporting requirements of Section 313, Title III of SARA. Sodium Azide is subject to reporting requirements of Section 313, Title III of SARA.
CERCLA RG's, 40 CFR 302.4	Ethylene Oxide is listed. 1,4-Dioxane is listed. Sodium Azide is listed.

Section 15 Regulatory Information (Continued)**US Federal and State Regulations**

California Proposition 65

Ethylene Oxide has been identified by the State of California to cause cancer and reproductive harm. The State of California has adopted a regulation which requires a warning be given to individuals who may be exposed to chemicals identified by the State to cause cancer or reproductive harm. Accordingly, Beckman Coulter advises you of the following warning:

WARNING: This product contains a chemical known to the State of California to cause cancer and reproductive harm.

1,4-Dioxane has been identified by the State of California to cause cancer. The State of California has adopted a regulation which requires a warning be given to individuals who may be exposed to chemicals identified by the State to cause cancer or reproductive harm. Accordingly, Beckman Coulter advises you of the following warning:

WARNING: This product contains a chemical known to the State of California to cause cancer.

Massachusetts MSL

Ethylene Oxide is listed.

1,4-Dioxane is listed.

Sodium Azide is listed.

New Jersey Dept. of
Health RTK List

Ethylene Oxide is listed.

1,4-Dioxane is listed.

Sodium Azide is listed.

Pennsylvania RTK

Ethylene Oxide is listed.

1,4-Dioxane is listed.

Sodium Azide is listed.

EU Labeling Classification

Preparation not classified.

Canada

This product is exempt from WHMIS label and MSDS requirements.

PIN:

Not applicable

**Ingredients on Ingredient
Disclosure List:**

Ethylene Oxide

1,4-Dioxane

octylphenoxypoly(ethoxyethanol)

Sodium Azide

**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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