



MATERIAL SAFETY DATA SHEET

Section 1 Company and Product Identification

Product Name	Hamster Anti-Mouse CD28-UNLB (Clone 37.51) Rat Anti-Mouse CD38-UNLB (Clone NIMR-5) Rat Anti-Mouse CD38-UNLB (Clone 90) Rat Anti-Mouse CD45/LCA-UNLB (Clone I3/2.3) Rat Anti-Mouse CD45RB-UNLB (Clone C363.16A) Rat Anti-Mouse CD45RC-UNLB (Clone GL24) Rat Anti-Mouse CD49e-UNLB (Clone 5H10-27) Rat Anti-Mouse CD62L-UNLB (Clone MEL-14) Rat Anti-Mouse CD71-UNLB (Clone R17217) Mouse Anti-Mouse CD72.1-UNLB (Clone 10-1.D2)	Doc. ID 732100-75 AA Issued (year/month/day) 2005/07/19
Part Number	732100, 732125, 732130, 732146, 732162, 732167, 732172, 732182, 732193, 732198	
Product Use	For laboratory use only. See product literature for details.	
Series Name	Cell Lab	
Manufacturer	Manufactured for 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:	None
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Section 3 Hazards Identification

Emergency Overview	<p style="text-align: center;"> Colorless; Clear; Liquid; Odorless Nonflammable aqueous solution. Does not meet EU, OSHA or WHMIS criteria for hazardous materials. Contains material of animal origin. </p>		
Physical Hazards	No physical hazards were determined from a review of available literature.		
Potential Health Effects Summary	This product does not meet EU, OSHA or WHMIS criteria for hazardous materials. However, it does contain material of animal origin and should be considered potentially infectious. See Section 11 Toxicological Information for more detailed health information.		
Product Hazard Classifications	EU: Not applicable	WHMIS: Not applicable	US OSHA: Not applicable

Section 3 Hazards Identification (Continued)

Beckman Coulter Safety Rating	Flammability (Section V): 0 Health (Section XI): 0 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 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	Remove any contaminated clothing. Wash affected area with plenty of soap and water. Use disinfectant if possible.
Ingestion	If ingested, wash mouth out with water. If irritation or discomfort occurs, seek medical attention.

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 (an aqueous solution).
Protective Equipment for Firefighters	Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.

Section 6 Accidental Release Measures

Personal Precautions	This product contains a material of biological origin. Use universal precautions during clean up procedures.
Spill and Leak Procedures	As a precautionary measure, treat spilled material with a 1:10 bleach/water solution. Absorb liquid and place in container suitable for disposal. Avoid generation of aerosols during clean up. Comply with applicable waste disposal regulations.
Environmental Precautions	Contain spill to prevent migration.

Section 7 Handling and Storage

Handling Precautions	This product should be handled as though capable of transmitting infectious diseases. Universal precautions should be followed when using this product.
Recommended Storage Conditions	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:	None established
ACGIH:	None established
DFG MAK:	None established
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.
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	Odorless
Odor Threshold	Not applicable
pH	≈ 8.1
Boiling Point	Not available
Melting Point	Not available
Specific Gravity	≈ 1 @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	Strong acids Strong bases Strong oxidizers
Hazardous Decomposition Products	No decomposition products posing significant hazards would be expected from this product (a dilute aqueous solution).
Conditions to Avoid	Avoid contact with incompatible materials.

Section 11 Toxicological Information

Toxicity Data for Hazardous Ingredients	Not applicable
Primary Routes of Exposure	Common routes of entry include inhalation, ingestion and eye/skin contact. Specific paths of concern for potentially infectious materials are skin puncture, contact with broken skin, contact with mucous membranes and inhalation of aerosolized material.
Potential Effects of Acute Exposure	This product contains materials of animal origin and should be considered potentially infectious. No other health hazards were identified from a review of available literature.
Potential Effects of Chronic Exposure	Effects are similar to those for acute exposure.
Symptoms of Overexposure	None identified.
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	None identified.

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.
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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	No ingredients listed
CERCLA RG's, 40 CFR 302.4	No ingredients listed
California Proposition 65	No ingredients listed
Massachusetts MSL	Sodium Borate Decahydrate is listed.
New Jersey Dept. of Health RTK List	Sodium Borate Decahydrate is listed.
Pennsylvania RTK	Sodium Borate Decahydrate is listed.

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

Preparation not classified.

Canada

This product does not meet WHMIS criteria for hazardous materials.

PIN: Not applicable**Ingredients on Ingredient Disclosure List:** Sodium Borate Decahydrate
Boric Acid**Ingredients with unknown toxicological properties:** None**Section 16 Other Information**

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

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