



MATERIAL SAFETY DATA SHEET

Section 1 Company and Product Identification

Product Name	LIF Performance Test Mixture	Doc. ID 726022-75 AB Issued (year/month/day) Revised (year/month/day) 2002/12/12
Part Number	477404, 726022	
Series Name	P/ACE™	
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:	None
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Section 3 Hazards Identification

Emergency Overview	Colorless; Clear; Liquid; Odorless Negligible fire hazard when exposed to flame or heat. Does not meet EU, OSHA or WHMIS criteria for hazardous materials.		
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 contact may result in skin or eye irritation.		
Product Hazard Classifications	EU: Not applicable	WHMIS: Not applicable	US OSHA: Not applicable
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	

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.

Section 4 First Aid Measures (Continued)

Ingestion	If ingested, wash mouth out with water. Contact local poison control center for assistance. Seek medical attention immediately.
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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	None identified.
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	Eye protection and impervious gloves should be worn during spill clean-up.
Spill and Leak Procedures	Sweep up spill and place in container suitable for disposal.
Environmental Precautions	Contain spill to prevent migration.

Section 7 Handling and Storage

Handling Precautions	The health effects of this product have not been fully determined. Use good laboratory procedures, avoid contact when handling product.
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:	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 should be worn to prevent eye contact.
Skin Protection	Impervious gloves are recommended to prevent repeated or prolonged skin contact.

Section 9 Physical and Chemical Properties

Physical State	Liquid
Color	Colorless
Transparency	Clear
Odor	Odorless
Odor Threshold	Not applicable
pH	7
Boiling Point	100°C(212°F)
Melting Point	0°C(32°F)
Specific Gravity	1 @20°C
Vapor Pressure	760 mm Hg @100°C
Vapor Density	Not available
Evaporation Rate	Not available
Solubility	
Water	Soluble
Organic	Not available

Section 10 Stability and Reactivity

Stability	Stable under normal temperatures and pressures.
Hazardous Incompatibilities	No hazardous incompatibilities were determined from a review of literature available.
Hazardous Decomposition Products	No decomposition products posing significant hazards would be expected from this product (a dilute aqueous solution).
Conditions to Avoid	None determined.

Section 11 Toxicological Information

Toxicity Data for Hazardous Ingredients	Not applicable
Primary Routes of Exposure	The most likely routes of exposure are skin and eye contact.
Potential Effects of Acute Exposure	Eye contact with concentrated fluorescein may cause a yellow or green stain. Skin contact may produce allergic dermatitis.
Potential Effects of Chronic Exposure	None reported for skin or eye contact. Moderately toxic by ingestion. Experimental mutagenic and reproductive effects reported in animal studies.
Symptoms of Overexposure	No specific symptoms 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.

Section 11 Toxicological Information (Continued)

Conditions Aggravated by Exposure	None identified.
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Section 12 Ecological Information

Ecotoxicity	No information available.
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Biodegradability	No information available.
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Mobility	No information available.
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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
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CERCLA RG's, 40 CFR 302.4	No ingredients listed
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California Proposition 65	No ingredients listed
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Massachusetts MSL	No ingredients listed
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New Jersey Dept. of Health RTK List	No ingredients listed
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Pennsylvania RTK	No ingredients listed
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Florida Substance List	No ingredients listed
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EU Labeling Classification

Preparation not classified.

Canada

This product does not meet WHMIS criteria for hazardous materials.

PIN:	Not applicable
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Ingredients on Ingredient Disclosure List:	None
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Ingredients with unknown toxicological properties:	None
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Section 16 Other Information

This product is intended for research use only and must be used under the supervision of a technically qualified individual.

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

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