

Kit MSDS

Doc. ID: 33530-75: Rev. AB

Product Information			
Product Name	PROLACTIN	Doc. ID 33530-75 AB	
Part Number	33530	Revised (year/month/day) 2003/05/27	
Series Name:	ACCESS®		

Components

Description

PROLACTIN (Compartment R1a) PROLACTIN (Compartment R1b)

Transport Information

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



MATERIAL SAFETY DATA SHEET

Section 1 Company and Product Identification PROLACTIN (Compartment R1a) Product Name PROLACTIN Doc. ID 33530-75 AB Issued (year/month/day) Revised (year/month/day) 2003/05/27 Part Number Component of P/N 33530 Series Name **ACCESS®** Beckman Coulter, Inc. Manufacturer 4300 Harbor Blvd. Fullerton, CA 92835-3100, U.S.A. Distributor and Refer to attached list, Document ID: 472050, for local distributor and T **Emergency Phone No.** emergency phone numbers.

Section 2 Composition and Information on Ingredients					
Hazardous Ingredients: Meets Hazardous Criteria:					
Chemical Name	CAS #	% by wt.	EU	US OSHA	WHMIS
Tris(hydroxymethyl)aminomethane 77-86-1 <5.0 No Yes Exe		Exempt			
See Section 15 Regulatory Information for additional information on hazard classifications.					

Section 3 Hazards Identification				
Emergency Overview	Reddish-bro	own; Opaque	e; Liquid;	Odorless
	Nor	flammable aqu	leous solution	
	Contains animal material w	hich may have	come in conta	act with human material.
	Skin, e	eye and respira	ltory tract irrit	ant.
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	Exposure may result in irritation of skin, eyes, and mucous membranes.			
Effects Summary	See Section 11 Toxicological Information for more detailed health information.			
Product Hazard	EU:	WHMIS:		US OSHA:
Classifications	Not applicable	Exempt		Hazardous
Beckman Coulter Safety Rating	Flammability (Section V Health (Section XI): 1 Reactivity with Water (S Contact (Section VIII): 2	Section X): 0	Code 0=none 1=slight 2=caution 3=severe	

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PROLACTIN (Compartment R1a)			
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 wate attention.	r. If irritation or discomfort o	occurs, seek medical

	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	Due to the composition and volume of this product, combustion products generated from it are not expected to present a significant hazard.
Protective Equipment for Firefighters	Self-contained breathing apparatus is recommended for firefighters.

	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.	

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Section 8 Exposure Controls and Personal Protection

Exposure Limits		
US OSHA:	None established	
ACGIH:	None established	

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Section 8 Exposure Controls and Personal Protection (Continued)

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. 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	Reddish-brown
Transparency	Opaque
Odor	Odorless
Odor Threshold	Not applicable
рН	8.05
Boiling Point	Not available
Melting Point	Not available
Specific Gravity	1.007 @20°C
Vapor Pressure	Not available
Vapor Density	Not available
Evaporation Rate	Not available
Solubility	
Water	Matrix is miscible
Organic	Not available

	Section 10 Stability and Reactivity
Stability	Stable under normal temperatures and pressures.
Hazardous Incompatibilities	Metals and metallic compounds Strong oxidizers Strong acids 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 In	formation	
Toxicity Data for Hazardous Ingredients Tris(hydroxymethyl)- aminomethane	Oral LD50 Rat: 5900 mg/kg		
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	 Exposure to TRIS may result in irritation of skin, eyes and mucous membrane. Eye contact may result in redness, pain and corneal injury. Inhalation may result in chest pain and tightness, coughing, and difficult breathing. Ingestion may cause gastrointestinal irritation with burns to mouth and stomach, and large doses may cause weakness, collapse and death in laboratory animals. This product contains materials of animal origin, some of which may have come into contact with human material during processing. The product should be considered as potentially capable of transmitting infectious diseases. 		
Potential Effects of Chronic Exposure	Prolonged or repeated exposure to TF contact may cause conjunctivitis.	RIS by skin contact may res	ult in dermatitis. Eye
Symptoms of Overexposure	Symptoms of overexposure may includ cracked skin; red irritated eyes; heada and coma.	de: throat irritation and coug che, drowsiness, dizziness,	ghing; dry, red, stupor; convulsions
Carcinogenicity	No ingredients in this product are liste or 67/548/EEC Annex I.	d as carcinogens by ACGIF	I, IARC, NTP, OSHA
Other Effects	None identified.		
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.

PROLACTIN

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Section 15 Regulatory Information

US Federal and State Regulations

SARA 313 CERCLA RG's, 40 CFR 302.4	Sodium Azide is subject to reporting requirements of Section 313, Title III of SARA. Zinc Chloride is subject to reporting requirements of Section 313, Title III of SARA. Sodium Phosphate, Dibasic is listed. Zinc Chloride is listed. Sodium Azide is listed.
California Proposition 65	Gentamicin Sulfate has been identified by the State of California to cause 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 reproductive harm.
Massachusetts MSL	Sodium Phosphate, Dibasic is listed. Zinc Chloride is listed. Sodium Azide is listed. Magnesium Chloride is listed.
New Jersey Dept. of Health RTK List	Sodium Phosphate, Dibasic is listed. Zinc Chloride is listed. Sodium Azide is listed. Magnesium Chloride is listed.
Pennsylvania RTK	Sodium Phosphate, Dibasic is listed. Zinc Chloride is listed. Sodium Azide is listed. Magnesium Chloride is listed.
EU Labeling Classification	

Preparation not classified.

Canada	
This product is exempt from W	HMIS label and MSDS requirements.
PIN:	Not applicable
Ingredients on Ingredient	Zinc Chloride
Disclosure List:	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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MATERIAL SAFETY DATA SHEET

Section 1 Company and Product Identification PROLACTIN (Compartment R1b) **Product Name** PROLACTIN Doc. ID 33530-75 AB Issued (year/month/day) Revised (year/month/day) 2003/05/27 Part Number Component of P/N 33530 Series Name **ACCESS®** Beckman Coulter, Inc. Manufacturer 4300 Harbor Blvd. Fullerton, CA 92835-3100, U.S.A. Distributor and Refer to attached list, Document ID: 472050, for local distributor and T **Emergency Phone No.** emergency phone numbers.

Section 2 Composition and Information on Ingredients					
Hazardous Ingredients: Meets Hazardous Criteria:					
Chemical Name	CAS #	% by wt.	EU	US OSHA	WHMIS
Tris(hydroxymethyl)aminomethane	77-86-1	<2.0	No	Yes	Exempt
Sodium Azide	26628-22-8	<0.3	T+;R28 R32	No	Exempt
See Section 15 Regulatory Information for additional information on hazard classifications					

Information for additional information on hazard classifications. See Section 15 Regulatory

Section 3 Hazards Identification				
Emergency Overview	Colorless; Clear; Liquid; Odorless Nonflammable aqueous solution. Skin, eye and respiratory tract irritant. Harmful if swallowed. Contains animal material which may have come in contact with human material.			
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	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;R22WHMIS: ExemptUS OSHA: Hazardous			

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PROLACTIN (Compartment F	R1b)		
Se	ection 3 Hazards Identificatio	n (Continued)	
Beckman Coulter Safety Rating	Flammability (Section V): 0 Health (Section XI): 2 Reactivity with Water (Section X): 0 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	Not applicable
Flammable Limits	Not applicable
Autoignition Temp.	Not applicable
Extinguishing Media	Use extinguishing media suitable for surrounding fire.
Special Fire and Explosion Hazards	Combustion products may contain minute amounts of mercury.
Hazardous Combustion Products	Due to the composition and volume of this product, combustion products generated from it are not expected to present a significant hazard.
Protective Equipment for Firefighters	Self-contained breathing apparatus is recommended for firefighters.

	Section 6 Accidental Release Measures
Personal Precautions	This product contains a material of biological origin. Use universal precautions during clean up procedures. Use good laboratory procedures; avoid eye and skin contact.
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. Use good laboratory procedures; avoid eye and skin contact.		
Recommended Storage Conditions	Keep away from incompatible material. To maintain efficacy, store according to the instructions in the product labeling.		

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PROLACTIN (Compartment	R1b)		
Sectio	n 8 Exposure Controls and P	ersonal Protection	
Exposure Limits			
US OSHA:	None established		
ACGIH:			
Sodium Azide	0.29 mg/m3 Ceiling (as sodium azide); 0.11 ppm Ceiling (as hydrazoic acid vapor)		
DFG MAK:			
Sodium Azide	0.2 mg/m3 MAK (inhalable fraction); 0.	4 mg/m3 Peak (inhalable fra	action)
Engineering Controls	No special engineering controls are required. Use with good general ventilation.		
Respiratory Protection	Under normal conditions, the use of the protection. If overexposure should occur airborne concentrations at acceptable be evaluated by a qualified profession	his product should not requi cur and ventilation is not ad levels, the use of respirator al.	re respiratory equate to maintain ry protection should
Eye Protection	Safety glasses or chemical goggles sh	nould be worn to prevent ey	e 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	
рН	8.05	
Boiling Point	Not available	
Melting Point	Not available	
Specific Gravity	1.007 @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	

Section 10 Stability and Reactivity	
Stability	Stable under normal temperatures and pressures.

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 PROLACTIN (Compartment R1b)
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 Section 10 Stability and Reactivity (Continued)

 Hazardous
 Metals and metallic compounds
 Strong oxidizers

 Incompatibilities
 Strong oxidizers
 Strong acids

 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.</td>

When stored as labeled, no known hazardous decomposition products are formed

Decomposition Products	during the shelf-life of this product.
Conditions to Avoid	Keep away from incompatible material.

Hazardous

Section 11 Toxicological Information			
Toxicity Data for Hazardous Ingredients Tris(hydroxymethyl)- aminomethane Sodium Azide	Oral LD50 Rat: 5900 mg/kg Oral LD50 Rat: 27 mg/kg; Oral LD50 Mouse: 27 mg/kg; Dermal LD50 Rabbit: 20 mg/kg		
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	Exposure to TRIS may result in irritation of skin, eyes and mucous membrane. Eye contact may result in redness, pain and corneal injury. Inhalation may result in chest pain and tightness, coughing, and difficult breathing. Ingestion may cause gastrointestinal irritation with burns to mouth and stomach, and large doses may cause weakness, collapse and death in laboratory animals. Although its concentration in this product is low, sodium azide is highly toxic by ingestion and skin absorption. Overexposure may result in irritation of skin, eyes and mucous membranes, lowered blood pressure and irregular heartbeat. Sodium azide is a chemical asphyxiant and may effect the cardiovascular, respiratory and central nervous systems. Symptoms may include irritation, severe, pounding headaches, dizziness, weakness, nausea, vomiting, low blood pressure, rapid heartbeat, convulsions, collapse and death. This product contains materials of animal origin, some of which may have come into contact with human material during processing. The product should be considered as		
Potential Effects of Chronic Exposure	Prolonged or repeated exposure to TRIS by skin contact may result in dermatitis. Eye contact may cause conjunctivitis. Prolonged or repeated exposure to sodium azide may result in pounding headaches, eye and nose irritation, low blood pressure, fatigue and dizziness.		
Symptoms of Overexposure	Inhalation, skin absorption or ingestion may result in nausea, vomiting, headache, weakness, stupor, decreased blood pressure, lack of coordination, difficulty in breathing and loss of consciousness. Inhalation may also cause a burning sensation, shortness of breath, laryngitis, coughing and chest pain. Skin contact may result in irritation, burning or inflamation; eye contact may cause irritation, stinging, redness and severe watering of the eyes.		
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.		

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PROLACTIN (Compartment R1b)				
Section 11 Toxicological Information (Continued)				
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). This product contains a low level (<0.05%) of Thimerosal. Specific federal, state, and
	local regulations for disposal of mercury compounds may apply.

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 Regula	ations
SARA 313	Sodium Azide is subject to reporting requirements of Section 313, Title III of SARA. Thimerosal is subject to reporting requirements of Section 313, Title III of SARA. Zinc Chloride is subject to reporting requirements of Section 313, Title III of SARA.
CERCLA RG's,	Zinc Chloride is listed.
40 CFR 302.4	Sodium Azide is listed. Thimerosal is listed.
California Proposition 65	Thimerosal has been identified by the State of California to cause 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 reproductive harm.
Massachusetts MSL	Zinc Chloride is listed. Sodium Azide is listed. Magnesium Chloride is listed. Magnesium Chloride, Hexahydrate is listed.
New Jersey Dept. of Health RTK List	Zinc Chloride is listed. Sodium Azide is listed. Magnesium Chloride is listed. Magnesium Chloride, Hexahydrate is listed.

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PROLACTIN (Compartment R1b)				
S	ection 15 Regulat	tory Informati	on (Continued)	
US Federal and State Reg	ulations			
Pennsylvania RTK	Zinc Chloride is lis Sodium Azide is lis Thimerosal is liste Magnesium Chlorid Magnesium Chlorid	Zinc Chloride is listed. Sodium Azide is listed. Thimerosal is listed. Magnesium Chloride is listed. Magnesium Chloride, Hexahydrate is listed.		
EU Labeling Classification	n			
Classification	Risk and Safety Phrase	k and Safety Phrases		
Xn	R22 Harmful if swallow	red.		
Harmful	S28 After contact with	skin, wash immedia	tely with plenty of water.	
Canada				
This product is exempt from	n WHMIS label and MSD	S requirements.		
PIN:	Not applicable			
Ingredients on Ingredient	Thimerosal	Thimerosal		
Disclosure List:	Zinc Chloride			
	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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