



# MATERIAL SAFETY DATA SHEET

## Section 1 Company and Product Identification

<b>Product Name</b>	Mouse Anti-Chicken MCAM-FITC (Clone C264.5) Mouse Anti-Chicken CD8a-FITC (Clone EP72) Mouse Anti-Chicken Bu-1-FITC (Clone AV20) Mouse Anti-Chicken CD44-FITC (Clone AV6) Mouse Anti-Chicken CD8a-FITC (Clone 3-298) Mouse Anti-Chicken ChT1-FITC (Clone CT1) Mouse Anti-Chicken Monocyte/Macrophage-FITC (Clone KUL01) Rat Anti-Mouse CD2/LFA-2-FITC (Clone 12-15)	Doc. ID 733123-75 AA Issued (year/month/day) 2005/05/11
<b>Part Number</b>	733123, 733127, 733131, 733135, 733140, 733144, 735929, 736581	
<b>Product Use</b>	For laboratory use only. See product literature for details.	
<b>Series Name</b>	Cell Lab	
<b>Manufacturer</b>	Manufactured for Beckman Coulter, Inc. 4300 Harbor Blvd. Fullerton, CA 92835-3100, U.S.A.	
<b>Distributor and Emergency Phone No.</b>	☎	Refer to attached list, Document ID: <a href="#">472050</a> , 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>
Sodium Azide	26628-22-8	<0.2%	T+;R28 R32 N ;R 50/53	No	No

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

## Section 3 Hazards Identification

<b>Emergency Overview</b>	<p style="text-align: center;"> <b>Light yellow to dark yellow; Clear; Liquid; Odorless            Nonflammable aqueous solution.            Harmful if swallowed.            Contains material of animal origin.</b> </p>
<b>Physical Hazards</b>	Sodium azide forms explosive compounds with heavy metals. Repeated contact of low concentrations of azide with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds.
<b>Potential Health Effects Summary</b>	This product contains material of animal origin and should be considered as potentially capable of transmitting infectious diseases. See Section 11 Toxicological Information for more detailed health information.

### Section 3 Hazards Identification (Continued)

<b>Product Hazard Classifications</b>	<b>EU:</b> Xn;R22	<b>WHMIS:</b> Not applicable	<b>US OSHA:</b> Not applicable
<b>Beckman Coulter Safety Rating</b>	<b>Flammability (Section V):</b> 0 <b>Health (Section XI):</b> 1 <b>Reactivity with Water (Section X):</b> 0 <b>Contact (Section VIII):</b> 1	Code 0=none 1=slight 2=caution 3=severe	

### Section 4 First Aid Measures

<b>Inhalation</b>	If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration immediately and obtain medical attention.
<b>Eye Contact</b>	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.
<b>Skin Contact</b>	In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If pain or irritation occur, obtain medical attention.
<b>Ingestion</b>	If ingested, wash mouth out with water. If irritation or discomfort occurs, seek medical attention.

### Section 5 Fire Fighting Measures

<b>Flash Point</b>	Not applicable
<b>Flammable Limits</b>	Not applicable
<b>Autoignition Temp.</b>	Not applicable
<b>Extinguishing Media</b>	Use extinguishing media suitable for surrounding fire.
<b>Special Fire and Explosion Hazards</b>	None identified.
<b>Hazardous Combustion Products</b>	No combustion products posing significant hazards are expected from this product (a dilute aqueous solution).
<b>Protective Equipment for Firefighters</b>	Self-contained breathing apparatus is recommended for firefighters.

### Section 6 Accidental Release Measures

<b>Personal Precautions</b>	This product contains a material of biological origin. Use universal precautions during clean up procedures.
<b>Spill and Leak Procedures</b>	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.
<b>Environmental Precautions</b>	Contain spill to prevent migration.

## Section 7 Handling and Storage

<b>Handling Precautions</b>	This product should be handled as though capable of transmitting infectious diseases. Universal precautions should be followed when using this product.
<b>Recommended Storage Conditions</b>	Keep away from incompatible material. To maintain efficacy, store according to the instructions in the product labeling.

## Section 8 Exposure Controls and Personal Protection

<b>Exposure Limits</b>	
<b>US OSHA:</b>	None established
<b>ACGIH:</b>	
Sodium Azide	0.29 mg/m <sup>3</sup> Ceiling (as sodium azide); 0.11 ppm Ceiling (as Hydrazoic acid, vapor)
<b>DFG MAK:</b>	
Sodium Azide	0.2 mg/m <sup>3</sup> MAK (inhalable fraction); 0.4 mg/m <sup>3</sup> Peak (inhalable fraction)
<b>Engineering Controls</b>	No special engineering controls are required. Use with good general ventilation.
<b>Respiratory Protection</b>	Under normal conditions, the use of this product should not require respiratory protection.
<b>Eye Protection</b>	Safety glasses or chemical goggles should be worn to prevent eye contact.
<b>Skin Protection</b>	Impervious gloves, such as latex or equivalent, should be worn to prevent skin contact.

## Section 9 Physical and Chemical Properties

<b>Physical State</b>	Liquid
<b>Color</b>	Light yellow to dark yellow
<b>Transparency</b>	Clear
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	Not applicable
<b>pH</b>	≈ 7.4
<b>Boiling Point</b>	Not available
<b>Melting Point</b>	Not available
<b>Specific Gravity</b>	≈ 1 @20°C
<b>Vapor Pressure</b>	Not available
<b>Vapor Density</b>	Not available
<b>Evaporation Rate</b>	Not available
<b>Solubility</b>	
Water	Miscible
Organic	Not available

## Section 10 Stability and Reactivity

<b>Stability</b>	Stable in closed containers under normal temperatures and pressures.
<b>Hazardous Incompatibilities</b>	Strong acids Strong bases Strong oxidizers Metals and metallic compounds Sodium azide forms explosive compounds with heavy metals. Repeated contact of low concentrations of azide with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds.
<b>Hazardous Decomposition Products</b>	No decomposition products posing significant hazards would be expected from this product (a dilute aqueous solution).
<b>Conditions to Avoid</b>	Avoid contact with incompatible materials.

## Section 11 Toxicological Information

<b>Toxicity Data for Hazardous Ingredients</b> Sodium Azide	Oral LD50 Rat: 27 mg/kg; Oral LD50 Mouse: 27 mg/kg; Dermal LD50 Rabbit: 20 mg/kg
<b>Primary Routes of Exposure</b>	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.
<b>Potential Effects of Acute Exposure</b>	This product contains material of animal origin and should be considered as potentially capable of transmitting infectious diseases. 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.
<b>Potential Effects of Chronic Exposure</b>	Prolonged or repeated exposure to sodium azide may result in pounding headaches, eye and nose irritation, low blood pressure, fatigue and dizziness.
<b>Symptoms of Overexposure</b>	Symptoms of overexposure may include: eye, skin, nose and throat irritation; headache, weakness, dizziness, confusion, nausea and vomiting. Severe cases may exhibit difficulty in breathing, irregular heartbeat, reddish colored skin, unconsciousness, convulsions, coma and death. Symptoms may be delayed for several hours after exposure.
<b>Carcinogenicity</b>	No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or 67/548/EEC Annex I.
<b>Other Effects</b>	Reproductive effects have been reported in animal studies.
<b>Conditions Aggravated by Exposure</b>	None identified.

## Section 12 Ecological Information

<b>Ecotoxicity</b>	Toxic to fish and other water organisms.
<b>Biodegradability</b>	No information available.
<b>Mobility</b>	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	Sodium Azide is subject to reporting requirements of Section 313, Title III of SARA.
CERCLA RG's, 40 CFR 302.4	Sodium Phosphate, Dibasic is listed. Sodium Azide is listed.
California Proposition 65	No ingredients listed
Massachusetts MSL	Sodium Phosphate, Dibasic is listed. Sodium Azide is listed.
New Jersey Dept. of Health RTK List	Sodium Phosphate, Dibasic is listed. Sodium Azide is listed.
Pennsylvania RTK	Sodium Phosphate, Dibasic is listed. Sodium Azide is listed.

**EU Labeling Classification**

**Classification**

Xn



Harmful

**Risk and Safety Phrases**

R22 Harmful if swallowed.

S28 After contact with skin, wash immediately with plenty of water.

**Canada**

This product does not meet WHMIS criteria for hazardous materials.

**PIN:** Not applicable

**Ingredients on Ingredient Disclosure List:** Sodium Azide

**Ingredients with unknown toxicological properties:** None

### Section 16 Other Information

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

WHILE BECKMAN COULTER, INC. BELIEVES THE INFORMATION CONTAINED HEREIN IS VALID AND ACCURATE, BECKMAN COULTER MAKES NO WARRANTY OR REPRESENTATION AS TO ITS VALIDITY, ACCURACY, OR CURRENCY. BECKMAN COULTER SHALL NOT BE LIABLE OR OTHERWISE RESPONSIBLE IN ANY WAY FOR USE OF EITHER THIS INFORMATION OR MATERIALS TO WHICH IT APPLIES. DISPOSAL OF HAZARDOUS MATERIALS MAY BE SUBJECT TO LOCAL LAWS OR REGULATIONS.