




SAFETY DATA SHEET

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Section 1 Company and Product Identification

Product Name	4C®- ES Cell Control, Abnormal Low, Abnormal High, Normal
Part Number	7547187, 7547188, 7547189, 7547190, 7547202
Product Use	For In Vitro Diagnostic Use. See product literature for details.
Manufacturer	Beckman Coulter, Inc. 250 S. Kraemer Blvd Brea, CA 92821, U.S.A. Tel: 800-854-3633 E-mail: SDSNT@beckman.com
EC REP Address	Beckman Coulter Ireland Inc. Mervue Business Park Mervue, Galway, Ireland Tel: 353 91 774068
Distributor and Emergency Phone No.	 Refer to attached list, Document ID: 472050 , for local distributor and emergency phone numbers.

Section 2 Hazards Identification

Emergency Overview	Red; Opaque; Liquid; Odorless Nonflammable solution. Does not meet EU, OSHA or WHMIS criteria for hazardous materials. Contains material of human and animal origin.		
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	This product does not meet EU, OSHA or WHMIS criteria for hazardous materials. However, it does contain material of human and animal origin and should be considered potentially infectious. See Section 11 Toxicological Information for more detailed health information.		
Potential Environmental Effects	Not available		
Product Hazard Classifications	Meets Hazardous Criteria for Preparation/Mixture		
	EU: Not applicable	WHMIS: Exempt	US OSHA: Not applicable

Section 3 Composition and Information on Ingredients

Hazardous Ingredients: None

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

Flammable Properties	Nonflammable solution.
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.
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 materials of human and animal origin and should be considered as potentially capable of transmitting infectious diseases.
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 (see Section 10). 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

NIOSH None established

Japan 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 Nitrile or equivalent, should be worn to prevent skin contact.

Section 9 Physical and Chemical Properties

Physical State Liquid

Color Red

Transparency Opaque

Odor Odorless

Odor Threshold Not applicable

pH 6.55

Freezing Point Not available

Boiling Point Not available

Flash Point Not applicable

Evaporation Rate Not available

Flammability (Solid, Gas) Not applicable

Flammable Limits Not available

Vapor Pressure Not available

Vapor Density Not available

Specific Gravity 1.045 @20°C

Solubility

Water Miscible

Organic Not available

Section 9 Physical and Chemical Properties (Continued)

Coefficient of Water/Oil Distribution	Not available
Autoignition Temp.	Not applicable
Decomposition Temperature	Not available
Percent Volatiles	Not applicable

Section 10 Stability and Reactivity

Stability	Stable under normal temperatures and pressures.
Hazardous Incompatibilities	<p>Strong acids</p> <p>Strong bases</p> <p>Strong oxidizers</p> <p>Metals and metallic compounds</p> <p>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.</p>
Hazardous Decomposition Products	No decomposition products posing significant hazards would be expected from this product.
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 human and animal origin and should be considered as potentially capable of transmitting infectious diseases.
Potential Effects of Chronic Exposure	Effects are similar to those for acute exposure.
Symptoms of Overexposure	None identified.
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	None identified.
Conditions Aggravated by Exposure	None identified.

Section 12 Ecological Information

Ecotoxicity	No information available.
Biodegradability	No information available.
Bioaccumulation	No information available.
Mobility	No information available.
Other Adverse Effects	No information available.

Section 13 Disposal Considerations

Waste Disposal	<p>Sodium azide preservative may form explosive compounds in metal drain lines. See NIOSH Bulletin: Explosive Azide Hazard (8/16/76).</p> <p>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.</p>
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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	<p>5-Fluorouracil is subject to reporting requirements of Section 313, Title III of SARA.</p> <p>Tetracycline Hydrochloride is subject to reporting requirements of Section 313, Title III of SARA.</p> <p>Methanol is subject to reporting requirements of Section 313, Title III of SARA.</p> <p>Sodium Azide is subject to reporting requirements of Section 313, Title III of SARA.</p>
CERCLA RG's, 40 CFR 302.4	<p>Methanol is listed.</p> <p>Sodium Phosphate, Dibasic is listed.</p> <p>Sodium Azide is listed.</p>
California Proposition 65	<p>5-Fluorouracil 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 individual 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.</p> <p>Tetracycline Hydrochloride 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 individual 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.</p> <p>Neomycin 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</p>

Section 15 Regulatory Information (Continued)

be given to individual 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.

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 individual 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

5-Fluorouracil is listed.
Methanol is listed.
Glutaraldehyde is listed.
Sodium Phosphate, Dibasic is listed.
Sodium Azide is listed.

New Jersey Dept. of Health RTK List

5-Fluorouracil is listed.
Tetracycline Hydrochloride is listed.
Methanol is listed.
Glutaraldehyde is listed.
Sodium Phosphate, Dibasic is listed.
Sodium Azide is listed.

Pennsylvania RTK

5-Fluorouracil is listed.
Methanol is listed.
Glutaraldehyde is listed.
Sodium Phosphate, Dibasic is listed.
Sodium Azide is listed.

EU Labeling Classification

Preparation not classified.

Canada

This product is exempt from WHMIS label and SDS requirements.

PIN: Not applicable

Ingredients on Ingredient Disclosure List: Methanol
Glutaraldehyde
Iodoacetamide
Sodium Azide

Ingredients with unknown toxicological properties: Product is exempt

Some hazardous ingredients listed in Section 15 are below OSHAs and WHMIS' 1.0% w/w (0.1% for carcinogens) or EU's ingredient specific concentrations required for reporting in Section 3.

Section 16 Other Information

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
Revision Changes	Revised manufacturer's address in Section 1	
This SDS complies with EC Regulation 1907/2006 (REACH)		
For further information, please contact your local Beckman Coulter representative.		

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