




# MATERIAL SAFETY DATA SHEET

## Section 1 Company and Product Identification

<b>Product Name</b>	<b>S-CAL® Calibrator</b>	Doc. ID 7546808 AE Issued (year/month/day) Revised (year/month/day) 2007/08/24
<b>Part Number</b>	179310, 624519, 7546808, 7546847, 7547005, 7547026, 7547197	
<b>Product Use</b>	For In Vitro Diagnostic Use. See product literature for details.	
<b>Manufacturer</b>	Beckman Coulter, Inc. 4300 Harbor Blvd. Fullerton, CA 92835-3100, U.S.A. ECREP Address: Beckman Coulter Ireland, Inc. Mervue Business Park, Mervue, Galway, Ireland 353 91 774068	
<b>Distributor and Emergency Phone No.</b>	 Refer to attached list, Document ID: 472050, for local distributor and emergency phone numbers.	

## Section 2 Composition and Information on Ingredients

<b>Hazardous Ingredients:</b>	None
-------------------------------	------

## Section 3 Hazards Identification

<b>Emergency Overview</b>	<p style="text-align: center;"><b>Red; Opaque; Suspension; Odorless Nonflammable aqueous solution. Does not meet EU, OSHA or WHMIS criteria for hazardous materials. Contains material of human and animal origin.</b></p>		
<b>Physical Hazards</b>	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.		
<b>Potential Health Effects Summary</b>	This product contains materials of human and animal origin and should be considered as potentially capable of transmitting infectious diseases. See Section 11 Toxicological Information for more detailed health information.		
<b>Product Hazard Classifications</b>	<b>EU:</b> Not applicable	<b>WHMIS:</b> Exempt	<b>US OSHA:</b> Not applicable
<b>Beckman Coulter Safety Rating</b>	<b>Flammability (Section V): 0 Health (Section XI): 1 Reactivity with Water (Section X): 0 Contact (Section VIII): 1</b>	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>	Remove any contaminated clothing. Wash affected area with plenty of soap and water. Use disinfectant if possible.
<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>	Due to the nature and volume of this product, the type and amount of combustion products are negligible.
<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 (see Section 10). 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>	None established

## Section 8 Exposure Controls and Personal Protection (Continued)

<b>DFG MAK:</b>	None established
<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 Nitrile or equivalent, should be worn to prevent skin contact.

## Section 9 Physical and Chemical Properties

<b>Physical State</b>	Suspension
<b>Color</b>	Red
<b>Transparency</b>	Opaque
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	Not applicable
<b>pH</b>	6.5-6.8
<b>Boiling Point</b>	Not available
<b>Melting Point</b>	Not available
<b>Specific Gravity</b>	1.045 @20°C
<b>Vapor Pressure</b>	Not available
<b>Vapor Density</b>	Not available
<b>Evaporation Rate</b>	Not available
<b>Solubility</b>	
<b>Water</b>	Miscible
<b>Organic</b>	Not available

## Section 10 Stability and Reactivity

<b>Stability</b>	Stable under normal temperatures and pressures.
<b>Hazardous Incompatibilities</b>	<p>Strong oxidizers            Strong acids            Strong bases            Metals and metallic compounds</p> <p>Sodium azide forms explosive compounds with heavy metals. This product contains concentrations of azide &lt;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>
<b>Hazardous Decomposition Products</b>	When stored as labeled, no known hazardous decomposition products are formed during the shelf-life of this product.
<b>Conditions to Avoid</b>	Keep away from incompatible material.

## Section 11 Toxicological Information

<b>Toxicity Data for Hazardous Ingredients</b>	Not applicable
<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 materials of human and animal origin and should be considered potentially infectious. No other health hazards were identified from a review of available literature.
<b>Potential Effects of Chronic Exposure</b>	Effects are similar to those for acute exposure.
<b>Symptoms of Overexposure</b>	None identified.
<b>Carcinogenicity</b>	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.
<b>Other Effects</b>	None identified.
<b>Conditions Aggravated by Exposure</b>	None identified.

## Section 12 Ecological Information

<b>Ecotoxicity</b>	No information available.
<b>Biodegradability</b>	No information available.
<b>Mobility</b>	No information available.

## Section 13 Disposal Considerations

<b>Waste Disposal</b>	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

<b>US Federal and State Regulations</b>	
SARA 313	5-Fluorouracil is subject to reporting requirements of Section 313, Title III of SARA. Tetracycline Hydrochloride is subject to reporting requirements of Section 313, Title III of SARA. 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.

## Section 15 Regulatory Information (Continued)

### US Federal and State Regulations

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 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:  <b>WARNING:</b> 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 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:  <b>WARNING:</b> 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 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:  <b>WARNING:</b> This product contains a chemical known to the State of California to cause reproductive harm.</p>
Massachusetts MSL	<p>5-Fluorouracil is listed.  Sodium Phosphate, Dibasic is listed.  Sodium Azide is listed.</p>
New Jersey Dept. of Health RTK List	<p>5-Fluorouracil is listed.  Sodium Phosphate, Dibasic is listed.  Sodium Azide is listed.</p>
Pennsylvania RTK	<p>5-Fluorouracil is listed.  Sodium Phosphate, Dibasic is listed.  Sodium Azide is listed.</p>

### EU Labeling Classification

Preparation not classified.

### Canada

This product is exempt from WHMIS label and MSDS requirements.

**PIN:** Not applicable

**Ingredients on Ingredient Disclosure List:** Citric Acid  
Iodoacetamide  
Sodium Azide

**Ingredients with unknown toxicological properties:** Product is exempt

## Section 16 Other Information

Hazardous ingredients found 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 2.

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.