



# MATERIAL SAFETY DATA SHEET

## Section 1 Company and Product Identification

Product Name	pH 7 Green Buffer	Doc. ID 582521-75 AC Issued (year/month/day) Revised (year/month/day) 2007/03/02
Part Number	582521	
Product Use	pH Meter Reagent	
Manufacturer	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	
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

<b>Hazardous Ingredients:</b>	None
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## Section 3 Hazards Identification

<b>Emergency Overview</b>	Green; Transparent; Liquid; Odorless Nonflammable aqueous solution. Does not meet EU, OSHA or WHMIS criteria for hazardous materials.		
<b>Physical Hazards</b>	No physical hazards were determined from a review of available literature.		
<b>Potential Health Effects Summary</b>	This product does not meet EU, OSHA or WHMIS criteria for hazardous materials.		
<b>Product Hazard Classifications</b>	<b>EU:</b> Not applicable	<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> 0 <b>Reactivity with Water (Section X):</b> 0 <b>Contact (Section VIII):</b> 0	<b>Code</b> 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.

## Section 4 First Aid Measures (Continued)

<b>Skin Contact</b>	In case of skin contact, flush with copious amounts of water for at least 15 minutes. 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>	No special hazards determined.
<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 in all chemical fire situations.

## Section 6 Accidental Release Measures

<b>Personal Precautions</b>	No special precautions are necessary. Use good laboratory procedures.
<b>Spill and Leak Procedures</b>	Wipe up spill and place in container suitable for disposal.
<b>Environmental Precautions</b>	Contain spill to prevent migration.

## Section 7 Handling and Storage

<b>Handling Precautions</b>	No special precautions are necessary; use good laboratory procedures.
<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
<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.

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

<b>Skin Protection</b>	Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin contact.
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## Section 9 Physical and Chemical Properties

<b>Physical State</b>	Liquid
<b>Color</b>	Green
<b>Transparency</b>	Transparent
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	Not applicable
<b>pH</b>	7
<b>Boiling Point</b>	≈100°C(212°F)
<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>	
<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>	Strong acids Strong bases Strong oxidizers
<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>	Not applicable
<b>Primary Routes of Exposure</b>	The most likely routes of exposure are skin and eye contact.
<b>Potential Effects of Acute Exposure</b>	None identified.
<b>Potential Effects of Chronic Exposure</b>	None identified.

## Section 11 Toxicological Information (Continued)

<b>Symptoms of Overexposure</b>	None identified.
<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>	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.
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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
CERCLA RG's, 40 CFR 302.4	Potassium Hydroxide is listed. Sodium Phosphate, Dibasic is listed. Phosphoric Acid is listed.
California Proposition 65	No ingredients listed
Massachusetts MSL	Potassium Hydroxide is listed. Erioglaucine, disodium salt is listed. Sodium Phosphate, Dibasic is listed. Phosphoric Acid is listed.
New Jersey Dept. of Health RTK List	Potassium Hydroxide is listed. Erioglaucine, disodium salt is listed. Sodium Phosphate, Dibasic is listed. Phosphoric Acid is listed.
Pennsylvania RTK	Potassium Hydroxide is listed. Sodium Phosphate, Dibasic is listed. Phosphoric Acid is listed.

## Section 15 Regulatory Information (Continued)

### EU Labeling Classification

Preparation not classified.

### Canada

This product does not meet WHMIS criteria for hazardous materials.

**PIN:** Not applicable

**Ingredients on Ingredient Disclosure List:** Potassium Hydroxide  
Phosphoric Acid

**Ingredients with unknown toxicological properties:** None

## Section 16 Other Information

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

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