

## MATERIAL SAFETY DATA SHEET

This document has been prepared to meet the requirements of the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200; the EC Directive, 91/155/EEC and other regulatory requirements.

### 1. Company and Product Identification

Cambrex Bio Science Rockland, Inc.  
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Rockland, ME 04841 (U.S.A.)

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Risingevej, 1  
DK-2665 Vallensbaek Strand  
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(Denmark + 45) 43-56-74-00

**General Information:**  
(800) 638-8174

**Chemical Name:** Aqueous Solution  
**Trade Name:** Electrophoresis Buffer Concentrate MOPS Buffer  
**Synonyms:** AccuGENE® MOPS Buffer

**EMERGENCY TELEPHONE NUMBER:**  
CHEMTREC (spills during transportation)  
(800) 424-9300 (U.S.)  
(202) 483-7616 (All Other Countries)

### 2. Composition/Information on Ingredients

Ingredient Name	CAS #	% Ingredients	EC Symbol & Risk Phrases
Water	7732-18-5	80-99%	Not classified as dangerous
MOPS	1132-61-2	0-10%	Xi; R36/37/38
Sodium acetate trihydrate	6131-90-4	0-1%	Not classified as dangerous
EDTA	6381-92-6	0-1%	Xi; R36/37/38
EGTA	67-42-5	0-1%	Not classified as dangerous

### 3. Hazards Identification

**Emergency Overview:**

- Clear, colorless liquid.

**Potential Health Effects:** This product may be irritating to eyes, skin and mucous membranes.

### 4. First Aid Measures

**Eyes:** Immediately flush with water for at least 15 minutes, lifting upper and lower eyelids intermittently. If irritation occurs and persists, obtain medical attention.

**Skin:** Remove contaminated clothing, and shoes, and thoroughly wash with soap and water. If irritation occurs and persists, contact a medical doctor.

**Inhalation:** Remove to fresh air. If breathing difficulty or discomfort occurs and persists, contact a medical doctor.

**Ingestion:** Never give anything by mouth to an unconscious person. If discomfort persists, obtain medical attention.

**Note to Medical Doctor:** This product may be irritating to the skin, eyes and mucous membranes. Treatment is removal of exposure followed by symptomatic and supportive care.

### 5. Fire Fighting Measures

**Extinguishing Media:** Carbon dioxide, dry chemical powder, alcohol or polymer foam, or water spray.

**Unusual Fire/Explosion Hazard:** Emits toxic fumes under fire conditions.

**Special Fire Fighting Procedures:** Wear self-contained breathing apparatus and full protective clothing to prevent contact with skin and eyes.

**Hazardous Decomposition Products:** Burning may produce toxic fumes.

### 6. Accidental Release Measures

Absorb on absorbent material and place into closed containers for later disposal. Flush area with water. Material sublimates; therefore, clean up all spills before they dry. For personal precautions see section 8.

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## 7. Handling and Storage

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Store 18-24°C. Keep tightly closed.

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## 8. Exposure Controls/Personal Protection

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**Prevention of worker exposure:** Avoid contact. There shall be access to water and eye wash fountain. Careful personal hygiene is a necessity.

**Respiratory:** Use exhaust ventilation; wear NIOSH, EC CEN, or other approved mask in the absence of adequate ventilation.

**Gloves:** Chemical resistant gloves should be worn.

**Special Clothing and Equipment:** Lab coat or equivalent recommended.

**Eye Protection:** Wear standard laboratory safety glasses or goggles.

**Exposure Limits:** No data available for the formulation.

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## 9. Physical/Chemical Properties

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**Appearance:** Clear or colorless aqueous solution.

**Odor:** None.

**Melting Point:** Not applicable.

**Boiling Point:** About 100° C.

**Flammable Limits in Air:** Not available

**Explosive Properties:** Not applicable.

**Flash Point:** Not measured.

**Autoignition Temperature:** Not applicable.

**Oxidizing Properties:** Not applicable.

**pH:** 7~9.

**Specific Gravity:** 1.020

**% Volatiles:** Not applicable.

**Vapor Density:** Not determined.

**Vapor Pressure:** Not determined.

**Molecular Weight:** Not available.

**Solubility (H<sub>2</sub>O):** Miscible in H<sub>2</sub>O.

**Partition Coefficient:** No data available.

**Evaporation Rate:** As water.

**Comments:**

Explosive Properties: Not applicable

Fat Solubility: No data available

Partition Coefficient: No data available

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## 10. Stability and Reactivity

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**Stability:** Stable

**Hazardous Decomposition Products:** Burning may produce toxic fumes, including carbon monoxide, carbon dioxide.

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## 11. Toxicological Information

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**Skin Contact:** No data available for formulation.

**Skin Absorption:** No data available for formulation.

**Inhalation LC<sub>50</sub>:** No data available for formulation.

**Ingestion:** No data available for formulation.

**Eye Contact:** No data available for formulation.

**Acute Effects From Overexposure:** No data available for the formulation. This product is expected to be irritating to the eyes, skin and respiratory system.

**Chronic Effects From Overexposure:** No data available for the formulation.

**Ecotoxicity:** No data available for the formulation.

**Carcinogenicity:** No **IARC:** No **NTP:** No **Other** (OSHA): No ACGIH Appendix A- No

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## 12. Ecological Information

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**Environmental Fate:** No data available.

**Environmental Effect:** No data available.

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## 13. Disposal Considerations

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It is the users responsibility to comply with applicable local, state/provincial, and federal/national environmental regulations.

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## 14. Transportation Information

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**U.S. DOT:** Chemicals, n.o.s. (non-regulated)

UN MARPOL designation: Chemicals, n.o.s. (non-regulated)

Canada (TDG): Not applicable

Packaging requirements: None

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### 15. Regulatory Information

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U.S. TSCA Inventory:	This product is a "mixture". All components are listed.	
U.S. SARA Title III:	No components listed.	
California Proposition 65:	This product does not contain any chemicals currently on the California list of known carcinogens or reproductive toxins.	
Canada WHMIS:	D2B.	
EINECS No.:	All components listed.	
EC Symbols	Xi Irritant	
EC Risk Phrases	R36/37/38	Irritating to eyes, respiratory system and skin.
EC Safety Advise Phrases	S 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S 36	Wear suitable protective clothing.

Caution - this preparation contains substance(s) not yet fully tested.

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### 16. Other Information

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NFPA/HMIS Designation	Degree of Hazard Code
Fire: 1	4 = Extreme
Health: 1	3 = High
Reactivity: 0	2 = Moderate
Special Hazard: None	1 = Slight
	0 = Insignificant

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