

MATERIAL SAFETY DATA SHEET

QED Environmental Systems, Inc.  
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Ann Arbor, MI 48106  
Emergency Telephone No: 734-995-2547

PRODUCT NAME: Buffer Solution pH 4.00  
CATALOG NUMBER: NA  
Date of this revision: 10/27/2008

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1. CHEMICAL PRODUCT IDENTIFICATION

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Trade name: None.  
Chemical Formula: Solution in water.  
Formula CAS No: Not applicable.  
Molecular Weight: Not applicable.

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2. COMPOSITION

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Component	CAS#	Approx %
Water	7732-18-5	>98.8
Potassium Hydrogen Phthalate	877-24-7	1.1
Red food coloring	not found	<0.001

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3. HAZARD IDENTIFICATION

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Do not get in eyes, on skin or on clothing. Minimal contact, as with all chemicals, is a good policy to follow. Remove and wash contaminated clothing before re-use.  
Routes of entry: Ingestion, inhalation, or skin contact.  
Carcinogenicity: This material is not listed (IARC, NTP, OSHA) as a cancer causing agent.

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4. FIRST AID MEASURES

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Ingestion: Give two glasses of water to dilute. Call a physician.  
Inhalation: Remove to fresh air. Give artificial respiration if breathing has stopped.  
Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops.  
Skin: Immediately flush skin with plenty of water. Get medical attention if irritation develops.

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5. FIRE FIGHTING MEASURES

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Flash Point: Not Applicable.  
Flammable Limits (LEL): Not Applicable.  
Flammable Limits (UEL): Not Applicable.  
Fire Extinguishing Media: Use any suitable means for surrounding materials.  
Explosion Hazards: None known.

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#### 6. ACCIDENTAL RELEASE MEASURES

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Evacuate area of non-essential personnel. Eliminate ignition sources.  
Scoop up material and transfer to a plastic container and send to a RCRA-approved waste facility.  
Ensure compliance with Federal, State, and local regulations.

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#### 7. HANDLING AND STORAGE

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Store at room temperature. Avoid contact with eyes. Do not breathe mist.

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#### 8. EXPOSURE CONTROLS

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Airborne Exposure Limits: None established for product.  
Ventilation System: None normally required.  
Personal Respirators (NIOSH Approved): None normally required.  
Skin Protection: Rubber gloves may be worn to prevent skin contact.  
Eye Protection: Use chemical safety goggles and/or a full face shield where splashing is possible. Contact lenses should not be worn when working with this material.  
Maintain eye-wash fountain and quick-drench facilities in work area.

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#### 9. PHYSICAL CHEMICAL PROPERTIES

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Appearance: Clear, pink to red liquid.  
Odor: None.  
Solubility: Infinitely soluble in water.  
Boiling Point: Essentially the same as water.  
Melting Point: Essentially the same as water.  
Specific Gravity: Essentially the same as water.  
Vapor Density (Air=1): Essentially the same as water.  
Vapor Pressure (mm Hg): Essentially the same as water.  
Evaporation Rate: Essentially the same as water.

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#### 10. STABILITY AND REACTIVITY

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Stability: Stable under ordinary conditions of use and storage.  
Hazardous Decomposition Products: None known.  
Hazardous Polymerization: This substance does not polymerize.  
Incompatibilities: None found.

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#### 11. TOXICOLOGICAL INFORMATION

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No toxicity data for product.

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#### 12. ECOLOGICAL INFORMATION

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None found.

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#### 13. DISPOSAL CONSIDERATIONS

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EPA Waste Number: None.  
Ensure compliance with Federal, State, and local regulations.

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#### 14. TRANSPORT INFORMATION

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DOT Shipping Name: Not Regulated.  
DOT Number: None.

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#### 15. REGULATORY INFORMATION

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The CAS numbers of all components of this solution are listed on the TSCA Inventory.

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#### 16. OTHER INFORMATION

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NFPA Hazard Ratings:  
Health: 0  
Flammability: 0  
Reactivity: 0  
Special Hazards: None known.

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END OF MATERIAL SAFETY DATA SHEET