

MATERIAL SAFETY DATA SHEET

QED Environmental Systems, Inc.
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Emergency Telephone No: 734-995-2547

PRODUCT NAME: Buffer Solution pH 10.00
CATALOG NUMBER: NA
Date of this revision: 10/27/2008

1. CHEMICAL PRODUCT IDENTIFICATION

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

2. COMPOSITION

Component	CAS#	Approx %
Water	7732-18-5	>96
Potassium Hydroxide	1310-58-3	<1
Disodium EDTA dihydrate	6381-92-6	<1
Potassium Carbonate	584-08-7	<1
Potassium Borate	1332-77-0	<1
Bromphenol Blue, Sodium Salt	62625-28-9	<0.01
Bromcresol Green, Sodium Salt	62625-32-5	<0.01

3. HAZARD IDENTIFICATION

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.

4. FIRST AID MEASURES

Ingestion: If swallowed, DO NOT INDUCE VOMITING! Give large quantities of water or milk if available. 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.
Skin: Immediately flush skin with plenty of water. Get medical attention if irritation develops.

5. FIRE FIGHTING MEASURES

Fire: Not considered to be a fire hazard.
Explosion: Not considered to be an explosion hazard.
Fire Extinguishing Media: Use any suitable means for extinguishing surrounding fire.

6. ACCIDENTAL RELEASE MEASURES

Small spills: Flush to sewer with large amounts of water.
Larger spills: 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.

7. HANDLING AND STORAGE

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Avoid breathing mist. Avoid contact with eyes. Avoid prolonged or repeated skin contact.

8. EXPOSURE CONTROLS

Airborne Exposure Limits: Not established for product.
For 100% Potassium Hydroxide (product contains <1%)
ACGIH Threshold Limit Value (TLV): 2 mg/cu. m (TWA)
Ventilation System: In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust should be considered.
Personal Respirators (NIOSH Approved): If the TLV is exceeded a dust/mist respirator may be worn, in general, up to the maximum use concentration specified by the respirator supplier, or up to 10 times the TLV, whichever is less.
Skin Protection: Rubber or neoprene gloves.
Eye Protection: Chemical safety goggles.
Maintain eye-wash fountain and quick-drench facilities in work area.

9. PHYSICAL CHEMICAL PROPERTIES

Appearance: Clear, blue liquid.
Odor: None.
Solubility: Infinitely soluble in water.
Boiling Point: Essentially the same as water.
Melting Point: Essentially the same as water.
Specific Gravity: 1.0
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.

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

No toxicity data for product.
For 100% Potassium Hydroxide (product contains <1%):
ori-rat LD50: 273 mg/kg.
Mutagenic effects cited in RTECS.

12. ECOLOGICAL INFORMATION

None found.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

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

16. OTHER INFORMATION

NFPA Hazard Ratings:

Health:	0
Flammability:	0
Reactivity:	0
Special Hazards:	None known.

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END OF MATERIAL SAFETY DATA SHEET