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## MATERIAL SAFETY DATA SHEET

PRODUCT NAME: YSI-3823 BUFFER SOLUTION pH 10.00  
CATALOG NUMBER: YSI-3823  
Date of this revision: 08/01/2011

### **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.



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## **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%):

orl-rat LD50: 273mg/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.



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NFPA Hazard Ratings:

Health	0
Flammability	0
Reactivity	0
Special Hazards	None Known

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

END OF MATERIAL SAFETY DATA SHEET