



a xylem brand

Safety Data Sheet

According to the (US) Hazard Communication Standard (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Buffer Solution pH 10.00
Catalog Number: YSI 3823
Product Description: Laboratory chemical, for use in calibrating pH probes
Supplier: YSI, a Xylem brand
Manufacturer: NCL of Wisconsin, Inc.

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification: Reproductive Toxicity
Signal Word: Danger
Hazard Statements: H360
Precautionary Statements: P201, P202, P280, P308+P313, P405, P501
Other Hazards Not Contributing to the Classification: None under normal conditions



SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Identity: Not applicable
Common Name: Not applicable

Mixture

Table with 3 columns: Name, CAS #, Approximate %. Rows include Water, Potassium Hydroxide, Disodium EDTA dihydrate, Potassium Carbonate, Potassium Borate, Bromphenol Blue, Sodium Salt, and Bromocresol Green, Sodium Salt.

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General First Aid Measures: Never give anything by mouth to an unconscious person.
If Inhaled: Remove person to fresh air and keep comfortable for breathing.
In Case of Skin Contact: Remove contaminated clothing and wash exposed skin with mild soap and water.
In Case of Eye Contact: Immediately flush eyes with plenty of water.

**If Swallowed**

Rinse mouth. Do NOT induce vomiting. Get medical attention if you feel unwell.

**Most Important Symptoms/Effects Acute and Delayed**

May damage fertility or the unborn child

**Indication of Immediate Medical Attention and Special Treatment Needed**

No additional information available.

**SECTION 5: FIRE-FIGHTING MEASURES****Extinguishing Media****Suitable Extinguishing Media**

Foam. Dry powder. Sand. Carbon dioxide. Water spray.

**Unsuitable Extinguishing Media**

Do not use high pressure water stream.

**Special Hazards Arising from the Chemical**

No additional information available.

**Special Protective Actions for Fire-Fighters**

Wear self-contained breathing apparatus and protective clothing. Keep exposed containers cool with water spray.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****Personal Precautions, Protective Equipment and Emergency Procedures****Personal Precautions**

Use personal protective equipment (see section 8). Evacuate area of non-essential personnel. Eliminate ignition sources.

**Environmental Precautions**

Prevent entry to surface and ground waters.

**Methods and Materials for Containment and Cleaning Up**

Clean up spills with inert solids. Collect spillage. Store away from other materials. Ensure compliance with federal, state, and local regulations.

**SECTION 7: HANDLING AND STORAGE****Precautions for Safe Handling**

Avoid contact with eyes and skin. Avoid breathing vapors. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.

**Conditions for Safe Storage Including any Incompatibilities**

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Store away from heat sources, strong oxidizers and strong acids

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****Control Parameters**

<b>Potassium Hydroxide (1310-58-3)</b>		
USA ACGIH	ACGIH Ceiling (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>

**Appropriate Engineering Controls**

Provide adequate general ventilation. Maintain eye-wash fountain and quick-drench facilities in work area.

**Individual Protection Measures****Eye/Face Protection**

Avoid all unnecessary exposure.

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.

**Skin Protection**

Rubber or neoprene gloves and additional protection including impervious boots, apron, or coveralls, as needed in areas of unusual exposure to prevent skin contact.

**Respiratory Protection**

Wear appropriate mask.

**Other Information**

Do not eat, drink, or smoke when using this product.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****Physical State**

Liquid

**Color**

Blue

**Odor**

Odorless

**Odor Threshold**

Not determined

**pH**

10

**Melting Point/Freezing Point**

Not determined

<b>Initial Boiling Point and Boiling Range</b>	Not determined
<b>Flash Point</b>	Not determined
<b>Evaporation Rate</b>	Not determined
<b>Flammability (Solid, Gas)</b>	Not determined
<b>Upper/Lower Flammability/Explosive Limits</b>	Not determined
<b>Vapor Pressure</b>	Not determined
<b>Vapor Density</b>	Not determined
<b>Relative Density</b>	1.00
<b>Solubility</b>	Soluble in water
<b>Partition Coefficient: n-octanol/water</b>	Not determined
<b>Auto-Ignition Temperature</b>	Not determined
<b>Decomposition Temperature</b>	Not determined
<b>Viscosity</b>	Not determined

#### SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity</b>	No data available
<b>Chemical Stability</b>	Stable under ordinary conditions of use and storage.
<b>Possibility of Hazardous Reactions</b>	No data available
<b>Conditions to Avoid</b>	Extremely high or low temperatures.
<b>Incompatible Materials</b>	Strong oxidizers and strong acids
<b>Hazardous Decomposition Products</b>	When heated to decomposition, can emit toxic gases, carbon dioxide, and carbon monoxide.

#### SECTION 11: TOXICOLOGICAL INFORMATION

<b>Acute Toxicity</b>	Not classified
<b>Potassium Hydroxide (1310-58-3)</b>	
<b>LD50 oral rat</b>	333 mg/kg, Rat; experimental value
<b>Water (7732-18-5)</b>	
<b>LD50 oral rat</b>	≥90000 mg/kg
<b>Skin Corrosion/Irritation</b>	Not classified
<b>Serious Eye Damage/Irritation</b>	Not classified
<b>Respiratory or Skin Sensitization</b>	Not classified
<b>Germ Cell Mutagenicity</b>	Not classified
<b>Carcinogenicity</b>	Not classified
<b>Reproductive Toxicity</b>	May damage fertility or the unborn child
<b>Specific Target Organ Toxicity (Single Exposure)</b>	Not classified
<b>Specific Target Organ Toxicity (Repeated Exposure)</b>	Not classified
<b>Aspiration Hazard</b>	Not classified
<b>Potential Adverse Human Health Effects and Symptoms</b>	No data available
<b>Other Information</b>	Not available

#### SECTION 12: ECOLOGICAL INFORMATION

<b>Toxicity</b>	Not applicable
<b>Persistence and Degradability</b>	Not applicable
<b>Bioaccumulative Potential</b>	Not applicable
<b>Mobility in Soil</b>	Not applicable
<b>Other Adverse Effects</b>	Not applicable

**SECTION 13: DISPOSAL CONSIDERATIONS****Methods of Disposal**

<b>Disposal Recommendations</b>	Dispose of contents/containers in accordance with federal, state, and local regulations.
<b>Other Information</b>	Avoid release to the surrounding environment.

<b>UN Number</b>	Not applicable
<b>UN Shipping Name</b>	Not applicable
<b>Transport Hazard Class(es)</b>	Not applicable
<b>Packing Group</b>	Not applicable
<b>Environmental Hazards</b>	Not applicable
<b>Transport in Bulk</b>	Not applicable
<b>Other Precautions</b>	Not applicable

**SECTION 15: REGULATORY INFORMATION**

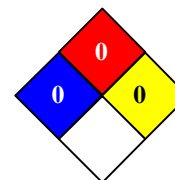
<b>Potassium Hydroxide (1310-58-3)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>Disodium EDTA Dihydrate (6381-92-6)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>Water (7732-18-5)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>Potassium Carbonate (584-08-7)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>Potassium Borate (1332-77-0)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>Bromphenol Blue, Sodium Salt (62625-28-9)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>Bromcresol Green, Sodium Salt (62625-32-5)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory

**SECTION 16: OTHER INFORMATION**

Revision Date: 12/10/2014

**NFPA Hazards**

<b>Health Hazard</b>	0: Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.
<b>Fire Hazard</b>	0: Materials that will not burn.
<b>Instability/Reactivity</b>	0: Normally stable, even under fire exposure conditions, and are not reactive with water.

**HMIS III Rating**

<b>Health</b>	0: No significant risk to health.
<b>Flammability</b>	0: Materials that will not burn.
<b>Physical Hazard</b>	0: Materials that are normally stable.
<b>Personal Protection</b>	A

YSI 3821	
Health	0
Flammability	0
Physical Hazard	0
Personal Protection	A

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**END OF SAFETY DATA SHEET**