



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**

Potassium Hydroxide (1310-58-3)		
USA ACGIH	ACGIH Ceiling (mg/m ³)	2 mg/m ³

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

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

SECTION 10: STABILITY AND REACTIVITY

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

SECTION 11: TOXICOLOGICAL INFORMATION

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

SECTION 12: ECOLOGICAL INFORMATION

Toxicity	Not applicable
Persistence and Degradability	Not applicable
Bioaccumulative Potential	Not applicable
Mobility in Soil	Not applicable
Other Adverse Effects	Not applicable

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

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

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

SECTION 15: REGULATORY INFORMATION

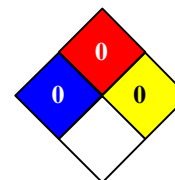
Potassium Hydroxide (1310-58-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Disodium EDTA Dihydrate (6381-92-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Water (7732-18-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory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

SECTION 16: OTHER INFORMATION

Revision Date: 12/10/2014

NFPA Hazards

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

**HMIS III Rating**

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

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

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END OF SAFETY DATA SHEET