

www.ysi.com Revision Date: 12/10/2014

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 4.00

Catalog Number YSI 3821

Product Description Laboratory chemical, for use in calibrating pH probes.

SupplierYSI, a Xylem brand1725 Brannum Lane

Telephone: 937-767-7241 Yellow Springs, OH 45387

Emergency: CHEMTREC <u>MSDSinfo@ysi.com</u>

US/Can: 800-424-9300 <u>YSI.com</u>

International: 001 703-572-3997 Collect calls accepted

Manufacturer NCL of Wisconsin, Inc. PO Box 8, Birnamwood, WI 54414

Telephone: 1-800-648-7836 Fax: 715-449-2454

Email: nclabs@nclabs.com Emergency Contact: 1-800-424-9300 (Chemtrec)

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification Not classified
Signal Word Not applicable

Pictograms None

Hazard Statements Not applicable
Precautionary Statements Not applicable

Other Hazards Not Contributing None under normal conditions.

to the Classification

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical IdentityNot applicableCommon NameNot applicable

Mixture

Name	CAS#	Approximate %
Water	7732-18-5	>98.8
Potassium Hydrogen Phthalate	877-24-7	1.1
Red Food Coloring	Not found	< 0.001

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General First Aid Measures Never give anything by mouth to an unconscious person. Seek medical advice if

you feel unwell.

If Inhaled Remove person to fresh air and keep comfortable for breathing. Allow victim to

rest.

In Case of Skin Contact Remove contaminated clothing and wash exposed skin with mild soap and water.

Rinse with warm water.

In Case of Eye Contact Immediately flush eyes with plenty of water. Remove contact lenses, if present

and easy to do. Get medical attention if irritation develops.

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

unwell.

Most Important Symptoms/Effects Acute and Delayed

Not expected to present a significant hazard under normal use.

<u>Indication of Immediate Medical Attention and Special Treatment Needed</u>

No additional information available.

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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.

Conditions for Safe Storage Including any Incompatibilities

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Store away

from strong oxidizers.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters Not applicable

Appropriate Engineering Controls Provide adequate general ventilation. Maintain eye-wash fountain and quick-drench

facilities in work area.

<u>Individual Protection Measures</u> Avoid all unnecessary exposure.

Eye/Face 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.

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 Red to pink
Odor Odorless

Odor Threshold Not determined

pH 4

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

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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.

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 Hydrogen Phthalate (877-24-7)		
LD50 oral rat	≥3200 mg/kg	
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 Not classified Specific Target Organ Toxicity (Single Not classified

Exposure)

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

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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.

SECTION 14: TRANSPORT INFORMATION

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 Hydrogen Phthalate (877-24-7)		
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		

SECTION 16: OTHER INFORMATION

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NFPA Hazards

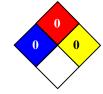
Health Hazard 0: Exposure under fire conditions would offer no hazard

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



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END OF SAFETY DATA SHEET