



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  
**NCL Catalog Number** QED-4  
**Product Description** Laboratory chemical, for use in calibrating pH probes.  
**Supplier**  
NCL of Wisconsin, Inc. **Telephone:** 1-800-648-7836 **Fax:** 715-449-2454  
P.O. Box 8 **Emergency Contact:** 1-800-424-9300 (Chemtrec)  
Biramwood, WI 54414 **Email:** [nclabs@nclabs.com](mailto:nclabs@nclabs.com)

**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 to the Classification** None under normal conditions.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**Chemical Identity** Not applicable  
**Common Name** Not 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.

**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.

**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.

**Individual Protection Measures** 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

|                                               |                  |
|-----------------------------------------------|------------------|
| <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.                                                                        |
| <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 Hydrogen Phthalate (877-24-7)</b>             |                   |
| <b>LD50 oral rat</b>                                       | ≥3200 mg/kg       |
| <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>                               | Not classified    |
| <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**

**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**

|                                                                           |
|---------------------------------------------------------------------------|
| <b>Potassium Hydrogen Phthalate (877-24-7)</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 |

**SECTION 16: OTHER INFORMATION**

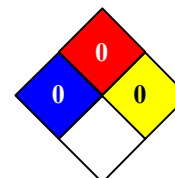
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**NFPA Hazards**

**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.

**Reactivity/Instability** 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

|                     |   |
|---------------------|---|
| QED-4               |   |
| Health              | 0 |
| Flammability        | 0 |
| Physical Hazard     | 0 |
| Personal Protection | A |

The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, NCL of Wisconsin, Inc. makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for their conditions of use. Accordingly, NCL of Wisconsin, Inc. will not be responsible for damages of any kind resulting from the use of or reliance upon such information.

**END OF SAFETY DATA SHEET**