

## 1. IDENTIFICATION

### 1.1 Product Identifiers

Product Name: pH 5  
Alternative names: pH 5 buffer water solution.  
Product Number: 81R-3EA, A81R-3, C81R-3

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: For laboratory and educational use only

### 1.3 Details of the supplier of the safety data sheet

Company: LAB-AIDS®, Inc, 17 Colt Ct., Ronkonkoma, NY 11779, USA  
Telephone: +1 800 381 8003.  
Fax: +1 631 820 8268

### 1.4 Emergency telephone number

Emergency number: CHEMTREC 1 800 424-9300

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### GHS classification

Not classified

### 2.2 Label elements, including precautionary statements

Signal word: Not classified  
Hazards statements: Not classified  
Precautionary statements: Not classified

Pictogram: Not classified

### 2.3 Hazards not otherwise classified: May cause eye irritation.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substance: N/A

### 3.2 Mixture: liquid

Chemical Name	Product identifier	%	GHS-US classification
Water	CAS# 7732-18-5	99%	Not classified
Potassium Biphthalate	CAS#877-24-7	<1%	Not classified
Sodium phosphate Diabasic	CAS# 7558-79-4	<1%	Not classified

### 3.3 Chemicals where a trade secret is claimed: none

## 4. FIRST AID MEASURE

### 4.1 Description of the first aid measure:

**INGESTION:** Never give anything by mouth to unconscious person. Rinse mouth and get conscious person drink a glass of milk or water. Do NOT induce vomiting unless directed to do so by medical personnel. Get immediate medical attention.

**INHALATION:** Remove to fresh air. Get medical attention if necessary.

**EYE CONTACT:** Wash immediately with plenty of water, and continue washing for at least 15min., occasionally lifting upper and lower eyelids. Seek medical attention if necessary.

**SKIN CONTACT:** Flush thoroughly with mild soap and water. Remove contaminated clothing. Get medical attention if irritation develops.

**4.2 Most important symptoms and effects, both acute and delayed:** Exposure to high concentrations may cause coughing and central nervous system depression. Dizziness. Headache.

## 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Suitable extinguishing media: Use TriClass, dry chemical extinguisher.

**5.2 Special hazard arising from the substance or mixture:** Not available.

**5.3 Advice for firefighters:** Use self-contained breathing apparatus and protective clothing.

## 6. ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions:** Wear laboratory grade gloves, eye protection and a lab coat.

**6.2 Emergency procedures:** Restrict unprotected personnel from the area.

**6.3 Methods and material used for containment and cleanup procedure:** For small spills use paper towel.

## 7. HANDLING AND STORAGE

**7.1 Precaution for safe handling:** Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Use only under adult supervision. Wash hands thoroughly after handling.

**7.2 Storage:** Keep container tightly closed in cool, well ventilated area.

**7.3 incompatibility:** Refer to section 10.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1 Control parameters:** Not available

**8.2 Exposure controls:** Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits.

**Respiratory protection:** Non should be needed if normal laboratory handling at room temperature. Use self-contained breathing apparatus in high vapor concentrations.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Liquid

**Appearance:** Transparent, Colorless, Clear.

**Odor:** Not available

**pH:** 5

**Vapor Pressure ( mm Hg):** not available

**Vapor Density:** the highest known is 0.62

**Evaporation Rate:** not available

**Viscosity:** N/A

**Flash point:** N/A

**Autoignition:** N/A

**Boiling point:** The lowest know is 100°C

**Melting point:** N/A

**Freezing point:** Not available

**Decomposition temp:** Not available

**Solubility:** Miscible in water and alcohol

**Specific gravity (H<sub>2</sub>O = 1):** 1.011 at 20°C

**Percent volatile (%):** Not available

**Molecular formula:** Mixture

**Molecular weight:** Mixture

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable.

**Conditions to Avoid:** Incompatibles.

**Incompatibilities:** Chlorine, Hypochlorous acid, Hypochlorites, Sulfides.

**Hazardous decomposition:** Not available.

**Hazardous polymerization:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**Acute effects:** Eye: May cause eye irritation. Skin: May cause skin irritation. Inhalation: Not expected to cause any acute effects. Ingestion: May cause gastrointestinal irritation.

**Toxicological data:**

Acute oral toxicity ORAL LD<sub>50</sub>: 17000mg/kg [Rat], as sodium phosphate

Acute oral toxicity ORAL LD<sub>50</sub>: 3200mg/kg [Rat], as potassium biphthalate

Acute vapor toxicity IHL-LC<sub>50</sub>: Not available

DERMAL LD<sub>50</sub>: Not available

**Carcinogenicity:**

California prop 65: Not classified

## 12. ECOLOGICAL INFORMATION

Data not available.

## 13. DISPOSAL CONSIDERATION

Disposal of in accordance with all local, state, and federal regulations.

## 14. TRANSPORT INFORMATION

**UN number:** N/A

**Shipping name:** Not regulated

**Hazard Class:** N/A

**Packing group:** N/A

**Exceptions:** N/A

## 15. REGULATORY INFORMATION

TSCA-listed.

## 16. OTHER INFORMATION

**Disclaimer:**

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