

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
 Product name : Buffer Solution pH 7.00  
 Product code : LC12370

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

Use of the substance/mixture : For laboratory and manufacturing use only.  
 Recommended use : Laboratory chemicals  
 Restrictions on use : Not for food, drug or household use

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

LabChem Inc  
 Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court  
 Zelienople, PA 16063 - USA  
 T 412-826-5230 - F 724-473-0647  
[info@labchem.com](mailto:info@labchem.com) - [www.labchem.com](http://www.labchem.com)

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 or 011-703-527-3887

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Not classified

#### 2.2. Label elements

Not classified as a hazardous chemical.

#### 2.3. Other hazards

Other hazards not contributing to the classification : None.

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

| Name                           | Product identifier | %     | GHS-US classification                                                                           |
|--------------------------------|--------------------|-------|-------------------------------------------------------------------------------------------------|
| Water                          | (CAS No) 7732-18-5 | 99.24 | Not classified                                                                                  |
| Potassium Phosphate, Monobasic | (CAS No) 7778-77-0 | 0.68  | Not classified                                                                                  |
| Sodium Hydroxide               | (CAS No) 1310-73-2 | 0.08  | Acute Tox. 4 (Dermal), H312<br>Skin Corr. 1A, H314<br>Eye Dam. 1, H318<br>Aquatic Acute 3, H402 |

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).  
 First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest.  
 First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.  
 First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.  
 First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Protective equipment : Safety glasses.

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : 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.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use.

Incompatible products : Strong oxidizers.

Incompatible materials : None known.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Potassium Phosphate, Monobasic (7778-77-0)

Not applicable

#### Sodium Hydroxide (1310-73-2)

|       |                                          |                                                                                   |
|-------|------------------------------------------|-----------------------------------------------------------------------------------|
| ACGIH | ACGIH Ceiling (mg/m <sup>3</sup> )       | 2 mg/m <sup>3</sup> (Sodium hydroxide; USA; Momentary value; TLV - Adopted Value) |
| OSHA  | OSHA PEL (TWA) (mg/m <sup>3</sup> )      | 2 mg/m <sup>3</sup>                                                               |
| IDLH  | US IDLH (mg/m <sup>3</sup> )             | 10 mg/m <sup>3</sup>                                                              |
| NIOSH | NIOSH REL (ceiling) (mg/m <sup>3</sup> ) | 2 mg/m <sup>3</sup>                                                               |

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### Water (7732-18-5)

Not applicable

### 8.2. Exposure controls

Personal protective equipment : Safety glasses.



Eye protection : Chemical goggles or safety glasses.

Respiratory protection : Respiratory protection not required in normal conditions.

Other information : Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                             |                            |
|---------------------------------------------|----------------------------|
| Physical state                              | : Liquid                   |
| Appearance                                  | : Clear, colorless liquid. |
| Color                                       | : Colorless                |
| Odor                                        | : None.                    |
| Odor threshold                              | : No data available        |
| pH                                          | : 7                        |
| Melting point                               | : No data available        |
| Freezing point                              | : No data available        |
| Boiling point                               | : No data available        |
| Flash point                                 | : No data available        |
| Relative evaporation rate (butyl acetate=1) | : No data available        |
| Flammability (solid, gas)                   | : Non flammable.           |
| Vapor pressure                              | : No data available        |
| Relative vapor density at 20 °C             | : No data available        |
| Relative density                            | : No data available        |
| Solubility                                  | : Soluble in water.        |
| Log Pow                                     | : No data available        |
| Auto-ignition temperature                   | : No data available        |
| Decomposition temperature                   | : No data available        |
| Viscosity, kinematic                        | : No data available        |
| Viscosity, dynamic                          | : No data available        |
| Explosion limits                            | : No data available        |
| Explosive properties                        | : No data available        |
| Oxidizing properties                        | : No data available        |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

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### 10.5. Incompatible materials

Strong oxidizers.

### 10.6. Hazardous decomposition products

Phosphorus oxides. Sodium oxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Likely routes of exposure : Skin and eye contact

Acute toxicity : Not classified

| Potassium Phosphate, Monobasic (7778-77-0) |                            |
|--------------------------------------------|----------------------------|
| LD50 dermal rabbit                         | 4640 mg/kg                 |
| ATE US (dermal)                            | 4640.000 mg/kg body weight |

| Sodium Hydroxide (1310-73-2) |                            |
|------------------------------|----------------------------|
| ATE US (dermal)              | 1350.000 mg/kg body weight |

| Water (7732-18-5) |                             |
|-------------------|-----------------------------|
| LD50 oral rat     | ≥ 90000 mg/kg               |
| ATE US (oral)     | 90000.000 mg/kg body weight |

Skin corrosion/irritation : Not classified  
pH: 7

Serious eye damage/irritation : Not classified  
pH: 7

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

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 : Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

| Sodium Hydroxide (1310-73-2) |                                                                                                |
|------------------------------|------------------------------------------------------------------------------------------------|
| LC50 fish 1                  | 45.4 mg/l (LC50; Other; 96 h; Salmo gairdneri; Static system; Fresh water; Experimental value) |

### 12.2. Persistence and degradability

| Buffer Solution pH 7.00                    |                                                                                        |
|--------------------------------------------|----------------------------------------------------------------------------------------|
| Persistence and degradability              | Not established.                                                                       |
| Potassium Phosphate, Monobasic (7778-77-0) |                                                                                        |
| Persistence and degradability              | Not established.                                                                       |
| Sodium Hydroxide (1310-73-2)               |                                                                                        |
| Persistence and degradability              | Biodegradability: not applicable. No test data on mobility of the substance available. |
| Biochemical oxygen demand (BOD)            | Not applicable                                                                         |
| Chemical oxygen demand (COD)               | Not applicable                                                                         |
| ThOD                                       | Not applicable                                                                         |

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### Water (7732-18-5)

|                               |                  |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |
|-------------------------------|------------------|

### 12.3. Bioaccumulative potential

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|                           |                  |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |
|---------------------------|------------------|

#### Potassium Phosphate, Monobasic (7778-77-0)

|                           |                  |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |
|---------------------------|------------------|

#### Sodium Hydroxide (1310-73-2)

|                           |                                    |
|---------------------------|------------------------------------|
| Bioaccumulative potential | No bioaccumulation data available. |
|---------------------------|------------------------------------|

### Water (7732-18-5)

|                           |                  |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |
|---------------------------|------------------|

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Effect on the global warming : No known effects from this product.

GWPmix comment : No known effects from this product.

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Not regulated

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### Sodium Hydroxide (1310-73-2)

|                                                              |         |
|--------------------------------------------------------------|---------|
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 1000 lb |
|--------------------------------------------------------------|---------|

|                                     |                                 |
|-------------------------------------|---------------------------------|
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard |
|-------------------------------------|---------------------------------|

### 15.2. International regulations

#### CANADA

#### Buffer Solution pH 7.00

|                      |                                                                 |
|----------------------|-----------------------------------------------------------------|
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |
|----------------------|-----------------------------------------------------------------|

#### Potassium Phosphate, Monobasic (7778-77-0)

|                      |                                                                 |
|----------------------|-----------------------------------------------------------------|
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |
|----------------------|-----------------------------------------------------------------|

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| Sodium Hydroxide (1310-73-2)                          |                                                                 |
|-------------------------------------------------------|-----------------------------------------------------------------|
| Listed on the Canadian DSL (Domestic Substances List) |                                                                 |
| WHMIS Classification                                  | Class E - Corrosive Material                                    |
| Water (7732-18-5)                                     |                                                                 |
| WHMIS Classification                                  | Uncontrolled product according to WHMIS classification criteria |

### EU-Regulations

No additional information available

### National regulations

No additional information available

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16: Other information

Revision date : 12/22/2016

Other information : None.

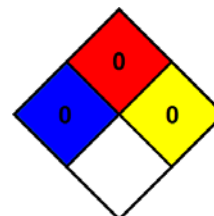
Full text of H-phrases: see section 16:

|      |                                         |
|------|-----------------------------------------|
| H312 | Harmful in contact with skin            |
| H314 | Causes severe skin burns and eye damage |
| H318 | Causes serious eye damage               |
| H402 | Harmful to aquatic life                 |

NFPA health hazard : 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



### HMIS III Rating

Health : 0 Minimal Hazard - No significant risk to health

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal protection : A

A - Safety glasses

SDS US LabChem

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