# SAFETY DATA SHEET

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers

| | |
|---|---|
| Product name | Buffer Solution, pH 7.0, Yellow |
| CAS number | See Section 3 |
| Synonyms | No information available |

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

| | |
|---|---|
| Identified uses | Laboratory Chemicals |

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

| | |
|---|---|
| Company | Lab Alley, LLC<br>12501 Pauls Valley Road<br>Austin, Texas 78737<br>U.S.A. |
| Telephone | 512-668-9918 |
| Fax | 512-886-4008 |

### 1.4 Emergency telephone

| | | |
|---|---|---|
| **Emergency Phone #** | US & Canada: 1-800-535-5053 | INFOTRAC |
| | International 1-352-323-3500 | INFOTRAC |

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

This product is not categorized as hazardous in any GHS hazard class.

### 2.2 GHS Label elements, including precautionary statements

| | |
|---|---|
| Pictogram | None Required. |

| | |
|---|---|
| Signal Word | None Required. |
| Hazard statements | None Required. |
| Precautionary statements | None Required. |

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Data not available.

## SECTION 3: Composition/information on ingredients

### 3.1 Components

| Chemical name | Common name and synonyms | CAS number | Concentration |
|---|---|---|---|
| Water | No information available. | 7732-18-5 | 99.18% |
| Potassium Dihydrogen Phosphate | No information available. | 7778-77-0 | 0.70% |
| FD&C yellow no.5 | No information available. | 1934-21-0 | 0-0.02% |
| Sodium Hydroxide | No information available. | 1310-73-2 | < 0.1% |

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

**General advice**

| | |
|---|---|
| **If inhaled** | Not expected to require first aid. If necessary, remove to fresh air. |
| **In case of skin contact** | May cause slight irritation to those allergic to phosphates. |
| **In case of eye contact** | May cause slight irritation. |
| **If swallowed** | Dilute with water or milk. Call a physician if necessary. |

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

Non-flammable, non-corrosive, non-toxic. Does not present any significant health hazards. May cause irritation. Wash areas of contact with water. EYE CONTACT: May cause slight irritation. SKIN CONTACT: May cause slight irritation to those allergic to phosphates.

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

Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops. Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops. Dilute with water or milk. Call a physician if necessary.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** Use any means suitable for extinguishing surrounding fire.

**Unsuitable extinguishing media** No information available.

### 5.2 Specific hazards arising from the substance or mixture

Not considered to be a fire or explosion hazard.

### 5.3 Special protective equipment and precautions for firefighters

Use protective clothing and breathing equipment appropriate for the surrounding fire.

### 5.4 Further information

**Flash Point** No information available.

**Autoignition Temperature** No information available.

**Explosion limits**

**Upper** No data available.
**Lower** No data available.
**Sensitivity to Mechanical Impact** No information available.
**Sensitivity to Static Discharge** No information available.

**NFPA**

| Health | Flammability | Instability | Physical hazards |
|---|---|---|---|
| 1 | 0 | 0 | N/A |

## SECTION 6: Accidental release measures

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

Wear appropriate PPE for the size and nature of the spill. As a general rule, wear safety glasses and gloves.

### 6.2 Environmental precautions

No information available.

### 6.3 Methods and materials for containment and cleaning up

Absorb with suitable material (vermiculite, clay, etc.) and dispose of in accordance with local regulations. Check with local agencies for the proper disposal of phosphate containing solutions.

### 6.4 Reference to other sections

No information available.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin.

**Hygiene measures**

No information available.

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

**Storage conditions**

Protect from freezing and physical damage.

**Incompatibilities**

See Section 10.

## SECTION 8: Exposure controls/personal protection

### 8.1 Occupational exposure limits

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

| Component | Type | Value |
|---|---|---|
| Sodium Hydroxide (1310-73-2) | TWA | 2 mg/m3 |

**US. ACGIH Threshold Limit Values**

| Component | Type | Value |
|---|---|---|
| Sodium Hydroxide (1310-73-2) | TLV-Ceiling | 2 mg/m3 |

**US. NIOSH: Pocket Guide to Chemical Hazards**

No

**Biological occupational exposure limits**

No information available.

### 8.2 Exposure controls

**Appropriate engineering controls**

No specific controls are needed. Normal room ventilation is adequate.

**Personal protective equipment**

**Eye/face protection**

Safety glasses or goggles.

**Skin protection**
Chemical resistant gloves.

**Body Protection**
No information available.

**Respiratory protection**
Normal room ventilation is adequate.

**Control of environmental exposure**
No information available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| Physical State | Liquid |
| Appearance | Yellow |
| Odor | Data not available. |
| Odor Threshold | Data not available. |
| pH | 7 |
| Melting Point/Range | Approximately 0°C |
| Boiling Point/Range | Approximately 100°C |
| Evaporation Rate | Data not available. |
| Flammability (solid) | Data not available. |
| Flammability or explosive limit | Data not available. |
| Upper | Data not available. |
| Lower | Data not available. |
| Vapor Pressure | Data not available. |
| Vapor Density | Data not available. |
| Density | 1 |
| Solubility | Miscible |
| Partition coefficient; n-octanol/water | Data not available. |
| Autoignition Temp | Data not available. |
| Decomposition Temp | Data not available. |
| Viscosity | Data not available. |
| Molecular Formula | Data not available. |
| Molecular Weight | Data not available. |
| VOC Content(%) | Data not available. |
| Oxidizing properties | Data not available. |

### 9.2 Other safety information

Data not available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

See Section 10.2.

### 10.2 Chemical stability

Stable under normal conditions of use and storage.

### 10.3 Possibility of hazardous reactions

Data not available.

### 10.4 Conditions to avoid

None identified.

### 10.5 Incompatible materials

None identified.

### 10.6 Hazardous decomposition products

Will not occur.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

**Product Information, Component Information**

**Acute toxicity**

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|---|---|---|
| Sodium Phosphate Dibasic | Rat: 17 gm/kg | 1350 mg/kg (Rabbit) | Not listed |
| Potassium Phosphate Monobasic | Not listed | >4640 mg/kg; | Not listed |

**Skin corrosion/irritation**

Not applicable.

**Serious eye damage/eye irritation**

Not applicable.

**Respiratory or skin sensitization**

Not applicable.

**Germ cell mutagenicity**

Not applicable.

**Carcinogenicity**
Not applicable.

**Specific target organ toxicity - single exposure**
Not applicable.

**Specific target organ toxicity - repeated exposure**
Not applicable.

**Reproductive toxicity**
Not applicable.

**Chronic effects**
Not applicable.

### 11.2 Additional Information
No data available.

## SECTION 12: Ecological information

### 12.1 Toxicity
Not applicable.

### 12.2 Persistence and degradability
Data not available.

### 12.3 Bio accumulative potential
Data not available.

### 12.4 Mobility in soil
Data not available.

### 12.5 Results of PBT and vPvB assessment
Data not available.

### 12.6 Endocrine disrupting properties
Data not available.

### 12.7 Other adverse effects
Data not available.

## SECTION 13: Disposal considerations

### 13.1 Waste Disposal Methods

Data not available.

## SECTION 14: Transport information

**DOT (US)** Not regulated according to DOT Regulations.

**IMDG** No information available.

**IATA** Not regulated according to IATA Dangerous Goods Regulations.

## SECTION 15: Regulatory information

**US federal regulations**

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

All components of this solution are listed as active on the TSCA Inventory or are mixtures (hydrates) of active items listed on the TSCA Inventory.

Sodium Hydroxide (CAS # 1310-73-2): "Present (ACTIVE)" As Sodium hydroxide (Na (OH)) [1310-73-2]
Sodium Phosphate Dibasic (CAS # 7558-79-4): Present (ACTIVE)
Water (CAS # 7732-18-5): "Present [XU] (ACTIVE)" As Water [7732-18-5]
Potassium Dihydrogen Phosphate (CAS # 7778-77-0): Present (ACTIVE)

**CERCLA Hazardous Substance List (40 CFR 302.4)**

No information available.

**SARA 304 Emergency release notification**

No information available.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous**

Sodium Hydroxide (CAS # 1310-73-2): 1000 lb final RQ
Sodium Hydroxide (CAS # 1310-73-2): 454 kg final RQ
Sodium Phosphate Dibasic (CAS # 7558-79-4): 2270 kg final RQ
Sodium Phosphate Dibasic (CAS # 7558-79-4): 5000 lb final RQ

**SARA 313 (TRI reporting)**

Not listed.

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**
No information available.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**
No information available.

**Safe Drinking Water Act**
No information available.

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**
No information available.

**US state regulations**

**US. Massachusetts RTK - Substance List**
Sodium Hydroxide (CAS # 1310-73-2): Present
Sodium Phosphate Dibasic (CAS # 7558-79-4): Present

**US. New Jersey Worker and Community Right-to-Know Act**
Sodium Hydroxide (CAS # 1310-73-2): corrosive
Sodium Hydroxide (CAS # 1310-73-2): sn 1706
Sodium Phosphate Dibasic (CAS # 7558-79-4): sn 1723

**US. Pennsylvania Worker and Community Right-to-Know Law**
Sodium Hydroxide (CAS # 1310-73-2): Environmental hazard
Sodium Phosphate Dibasic (CAS # 7558-79-4): Environmental hazard
Water (CAS # 7732-18-5): "Present" As Ethyl alcohol and water [RR-00802-6]

**California Proposition 65**
Not listed.

## SECTION 16: Other information

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## SECTION 17: Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.