

## SAFETY DATA SHEET

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

#### 1.1 Product identifiers

Product name	Buffer, pH8
CAS number	See section 3
Synonyms	N/A

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

Identified uses	Laboratory Chemicals
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#### 1.3 Details of the supplier of the safety data sheet

Company	Lab Alley, LLC 12501 Pauls Valley Road Austin, Texas 78737 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

None required.

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

None identified.

## SECTION 3: Composition/information on ingredients

### 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Water	-	7732-18-5	99.04%
Sodium Phosphate Dibasic	-	7558-79-4	0.90%
Potassium Dihydrogen Phosphate	-	7778-77-0	< 0.1%
Proprietary	-	Proprietary	< 0.1%
Phosphoric Acid	-	7664-38-2	< 0.1%

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

<b>General advice</b>	Show this sheet to a doctor if medical advice is needed.
<b>If inhaled</b>	Not expected to require first aid. If necessary, remove to fresh air.
<b>In case of skin contact</b>	May cause slight irritation to those allergic to phosphates.
<b>In case of eye contact</b>	May cause slight irritation.
<b>If swallowed</b>	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**                      None identified.

## 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 information available.

**Lower**                      No information 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

Refer to section 8 for personal protective equipment. Refer to section 13 for proper disposal.

## 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. Protect from freezing and physical damage.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

**7.2 Conditions for safe storage, including any incompatibilities****Storage conditions**

No available information.

**Incompatibilities**

None identified.

**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
Phosphoric Acid (7664-38-2)	TWA	1 mg/m3

**US. ACGIH Threshold Limit Values**

Component	Type	Value
Phosphoric Acid (7664-38-2)	TWA	1 mg/m3

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

Component	Type	Value
Phosphoric Acid (7664-38-2)	TWA	1 mg/m3

**Biological occupational exposure limits**

No additional information.

**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**

None required.

**Respiratory protection**

Normal room ventilation is adequate.

**Control of environmental exposure**

Handle in accordance with good industrial hygiene and safety practice.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Physical State	Liquid
Appearance	Colorless
Odor	No data available
Odor Threshold	No data available
pH	8
Melting Point/Range	Approximately 0°C
Boiling Point/Range	Approximately 100°C
Evaporation Rate	No data available
Flammability (solid)	No data available
Flammability or explosive limit	
Upper	No data available
Lower	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Density	1.0
Solubility	Miscible in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temp	No data available
Decomposition Temp	No data available
Viscosity	No data available
Molecular Formula	No data available
Molecular Weight	No data available
VOC Content(%)	No data available
Oxidizing properties	No data available

**9.2 Other safety information**

No information available.

**SECTION 10: Stability and reactivity****10.1 Reactivity**

Stable under normal conditions of use and storage.

**10.2 Chemical stability**

Stable under normal conditions of use and storage.

### 10.3 Possibility of hazardous reactions

Will not occur.

### 10.4 Conditions to avoid

None identified.

### 10.5 Incompatible materials

None identified.

### 10.6 Hazardous decomposition products

Data not available.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Product Information, Component Information

##### Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Potassium Phosphate Monobasic	-	Rabbit: >4640 mg/kg	-
Sodium Phosphate Dibasic	Rat: 17 gm/kg	-	-

##### Skin corrosion/irritation

No information available.

##### Serious eye damage/eye irritation

No information available.

##### Respiratory or skin sensitization

No information available.

##### Germ cell mutagenicity

No information available.

##### Carcinogenicity

No information available.

##### Specific target organ toxicity - single exposure

No information available.

##### Specific target organ toxicity - repeated exposure

No information available.

##### Reproductive toxicity

No information available.

**Chronic effects**

No information available.

**11.2 Additional Information**

No information available.

**SECTION 12: Ecological information**

**12.1 Toxicity**

No information available.

**12.2 Persistence and degradability**

No information available.

**12.3 Bio accumulative potential**

No information available.

**12.4 Mobility in soil**

Likely mobile due to being water soluble.

**12.5 Results of PBT and vPvB assessment**

No information available.

**12.6 Endocrine disrupting properties**

No information available.

**12.7 Other adverse effects**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**SECTION 13: Disposal considerations**

**13.1 Waste Disposal Methods**

Dispose in a safe manner in accordance with local/national regulations.  
Avoid release to the environment.

**SECTION 14: Transport information**

**DOT (US)**

UN Number	Not regulated
Proper Shipping name	Not regulated
Hazard Class	None
Packaging Group	Not regulated

Technical name Buffer, pH 8

### **IMDG**

UN Number Not regulated  
Proper Shipping name Not regulated  
Hazard Class None  
Packaging Group Not regulated  
Technical name Buffer, pH 8

### **IATA**

UN Number Not regulated  
Proper Shipping name Not regulated  
Hazard Class None  
Packaging Group Not regulated  
Technical name Buffer, pH 8

## **SECTION 15: Regulatory information**

### **US federal regulations**

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

Not listed.

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

Sodium phosphate, dibasic, 7558-79-4: 5,000 lb RQ.

#### **SARA 304 Emergency release notification**

Not listed.

#### **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 Phosphate Dibasic (CAS # 7558-79-4): 5000 lb final RQ.

Phosphoric Acid (CAS # 7664-38-2): 5000 lb final RQ.

#### **SARA 313 (TRI reporting)**

Not listed.

### **Other federal regulations**

#### **Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not listed.



**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not listed.

**Safe Drinking Water Act**

Sodium phosphate, dibasic, 7558-79-4: 5,000,000 lb TQ.

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Not listed.

**US state regulations**

**US. Massachusetts RTK - Substance List**

Sodium Phosphate Dibasic (CAS # 7558-79-4): Present.

Phosphoric Acid (CAS # 7664-38-2): Present.

**US. New Jersey Worker and Community Right-to-Know Act**

Sodium Phosphate Dibasic (CAS # 7558-79-4): sn 1723.

Phosphoric Acid (CAS # 7664-38-2): corrosive.

Phosphoric Acid (CAS # 7664-38-2): sn 1516.

**US. Pennsylvania Worker and Community Right-to-Know Law**

Sodium Phosphate Dibasic (CAS # 7558-79-4): Environmental hazard.

Phosphoric Acid (CAS # 7664-38-2): Environmental hazard.

Water (CAS # 7732-18-5): Present.

**California Proposition 65**

Not listed.

**SECTION 16: Other information**

Date of Issue: 6/4/2025

**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.