

## **SAFETY DATA SHEET**

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

#### 1.1 Product identifiers

Product name Buffer, pH3

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

#### 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	98.90
Potassium Acid Phthalate	-	877-24-7	1.02
Hydrochloric Acid	-	7647-01-0	< 0.1

#### **SECTION 4: First aid measures**

## 4.1 Description of first-aid measures

**General advice** Show this sheet to a doctor if medical advice is needed.

**If inhaled** Not expected to require first aid. If necessary, remove to fresh air.

In case of skin contact

May cause slight irritation.

In case of eye contact

May cause slight irritation.

If swallowed Dilute with water or milk. Do not induce vomiting. Call a physician if

necessary.

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

Wash areas of contact with water. Does not present any significant health hazards. EYE CONTACT: May cause slight irritation. SKIN CONTACT: May cause slight irritation.

## 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. Do not induce vomiting. Call a physician if necessary.

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media Use any means suitable for extinguishing surrounding fire (water or

water spray). Neutralize with soda ash or slaked lime.

Unsuitable extinguishing media None identified.

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

Not considered to be a fire or explosion hazard. May react with metals to release flammable Hydrogen gas.

#### 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

Do not allow release into the environment.

## 6.3 Methods and materials for containment and cleaning up

Cover the spill with Sodium Carbonate or a soda ash-slaked lime mixture (50:50). Mix and add water to form slurry. Decant the liquid to the drain with excess water. Treat the solid residue as normal refuse. Wash site with soda ash solution. Always dispose of in accordance with local regulations.

#### 6.4 Reference to other sections

See section 8 for personal protective equipment. See section 13 for proper diposal.

## **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

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

## 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Protect from freezing and physical damage.

#### Incompatibilities

Most metals, Alkalis, active metals, Cyanides, Sulfides, Sulfites, Metal Oxides, Formaldehyde.

#### **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	Туре	Value	
	PEL-Ceiling	5 ppm; 7 mg/m3	
Hydrochloric Acid	TWA	0.3 ppm	
	TWA Ceiling	2 ppm	

#### **US. ACGIH Threshold Limit Values**

Component	Type	Value
Hydrochloric Acid	TLV-Ceiling	2 ppm

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

Component	Type	Value
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Hydrochloric Acid	TWA Ceiling	5 ppm
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#### **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**

Appropriate protective work clothing.

#### **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 3
Melting Point/Range 0.0°C
Boiling Point/Range 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; 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

Data not available.

#### 10.4 Conditions to avoid

Storage conditions on label.

## 10.5 Incompatible materials

Most metals, Alkalis, active metals, Cyanides, Sulfides, Sulfites, Metal Oxides, Formaldehyde.

## 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
Hydrochloric Acid	Rabbit 900 mg/kg	-	LCLo, human 3000 ppm/5 minutes
Potassium Acid Phthalate	Rat > 3200 mg/kg	-	-

#### Skin corrosion/irritation

May cause slight irritation.

#### Serious eye damage/eye irritation

May cause slight irritation.

## 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

Data not available.

## 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

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

## **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, pH3

#### **IMDG**

UN Number Not regulated Proper Shipping name Not regulated

Hazard Class None

Packaging Group Not regulated Technical name Buffer, pH3

#### **IATA**

UN Number Not regulated Proper Shipping name Not regulated

Hazard Class None

Packaging Group Not regulated Technical name Buffer, pH3

### **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)**

Not listed.

#### 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

Hydrochloric Acid (CAS # 7647-01-0): 500 lb TPQ (gas only) Hydrochloric Acid (CAS # 7647-01-0): 5000 lb EPCRA RQ (gas only)

#### SARA 311/312 Hazardous

Hydrochloric Acid (CAS # 7647-01-0): 2270 kg final RQ Hydrochloric Acid (CAS # 7647-01-0): 5000 lb final RQ

#### SARA 313 (TRI reporting)

Hydrochloric Acid (CAS # 7647-01-0): 1.0 % de minimis concentration (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size).

#### 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

Not listed.

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

Not listed.

#### **US state regulations**

#### **US. Massachusetts RTK - Substance List**

Hydrochloric Acid (CAS # 7647-01-0): Extraordinarily hazardous.

# **US. New Jersey Worker and Community Right-to-Know Act**Not listed.

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

Hydrochloric Acid (CAS # 7647-01-0): Environmental hazard. Water (CAS # 7732-18-5): Present.

#### **California Proposition 65**

Not listed.

#### **SECTION 16: Other information**

Date of Issue: 6/10/2025

#### **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.