

# **SAFETY DATA SHEET**

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

## 1.1 Product identifiers

Product name Buffer, Reference Standard, pH9

CAS number N/A

Synonyms Buffer, Reference Standard, pH 9.00 ± 0.01 at 25°C

## 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)

## 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word Danger

Hazard statements May damage fertility or the unborn child. Precautionary Obtain special instructions before use.

statements Do not handle until all safety precautions have been read and understood.

Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention.

Store locked up.

Dispose of contents in accordance with local, state, federal and international

regulations.

# 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	H₂O	7732-18-5	99.22%
Potassium Chloride	KCI	7447-40-7	0.37%
Boric Acid	H₃BO₃	10043-35-3	0.31%
Proprietary	Proprietary	Proprietary	0.01%
Sodium Hydroxide	NaOH	1310-73-2	0.09%

#### **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 May cause slight irritation.

In case of eye 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

Does not present any significant health hazards. Wash areas of contact with water.

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

Not expected to require special treatment.

## **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 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 protective gloves and eye protection.

## 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

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation.

### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feedingstuffs. Donot eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, beforere-use. Wash hands before breaks and after work.

## 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Keep container tightly closed in a dry and well-ventilated place.

## Incompatibilities

No information available.

#### **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	TWA	2 mg/m³

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

Component	Туре	Value	
Sodium Hydroxide	TLV-Ceiling	2 mg/m³	
Boric Acid	TLV-TWA	2 mg/m³	
Bonc Acid	TLV-STEL	6 mg/m³	

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

No information available.

#### **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

Wear protective gloves and eye protection. Safety glasses or goggles.

### Skin protection

Wear protective gloves and eye protection. Chemical resistant gloves.

#### **Body Protection**

Normal room ventilation is adequate. Chemical resistant gloves. Safety glasses or goggles.

## **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 Colorless

Odor Data not available.
Odor Threshold Data not available.

pH 9

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

Upper Data not available.
Lower Data not available.
Vapor Pressure Data not available.
Vapor Density Data not available.

Density 1.0 Solubility Miscible

Partition coefficient; 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

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

No information available

## 10.4 Conditions to avoid

Acids.

## 10.5 Incompatible materials

Acids.

# 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
Potassium Chloride	2660 mg/kg	Not listed	Not listed
Boric Acid	2600 mg/kg	Not listed	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

May damage fertility or the unborn child. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

#### **Chronic effects**

Not applicable.

#### 11.2 Additional Information

No information available

## **SECTION 12: Ecological information**

## 12.1 Toxicity

Not applicable.

## 12.2 Persistence and degradability

No information available

## 12.3 Bio accumulative potential

No information available

# 12.4 Mobility in soil

No information available

## 12.5 Results of PBT and vPvB assessment

No information available

## 12.6 Endocrine disrupting properties

No information available

#### 12.7 Other adverse effects

No information available

## **SECTION 13: Disposal considerations**

## 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# **SECTION 14: Transport information**

## DOT (US)

Not regulated

## **IMDG**

Not regulated

#### **IATA**

Not regulated

# **SECTION 15: Regulatory information**

#### **US federal**

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

Not listed.

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

Listed, Sodium Hydroxide (CAS # 1310-73-2): 1000 lb final 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

Listed, Sodium Hydroxide (CAS # 1310-73-2): 1000 lb final RQ; 454 kg 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

Not listed.

#### FEMA Priority Substances Respiratory Health and Safety in the Flavor

Not listed.

#### **US** state regulations

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

Not listed.

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

Not listed.

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

Listed, Sodium Hydroxide (CAS # 1310-73-2)

### **California Proposition 65**

Not listed.

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

Date of Issue: 10/8/2025

## **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.