

# **SAFETY DATA SHEET**

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

#### 1.1 Product identifiers

Product name Buffer Solution, pH 10.00, Color-Coded Blue

CAS number N/A

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 chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

## 2.2 GHS Label elements, including precautionary statements

None required.

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## 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	Aqua; H2O	7732-18-5	97.78%
EDTA disodium dihydrate	Ethylenediaminetetraacetic acid, disodium salt dihydrate	6381-92-6	1.0%
Potassium carbonate	Carbonic acid, dipotassium salt	584-08-7	0.6%
Potassium tetraborate	Boron potassium oxide	1332-77-0	0.4%
Potassium hydroxide	Caustic potash; Lye	1310-58-3	0.2%

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

## 4.1 Description of first-aid measures

#### General advice

If inhaled Move to fresh air. If breathing is difficult, give oxygen. Get medical attention

immediately if symptoms occur.

In case of skin contact Wash off immediately with plenty of water for at least 15 minutes. Get

medical attention immediately if symptoms occur.

**In case of eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Obtain medical attention.

**If swallowed** Do not induce vomiting. Obtain medical attention.

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

No information available.

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

Treat symptomatically.

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Suitable extinguishing media Substance is nonflammable; use agent most

appropriate to extinguish surrounding fire.

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Unsuitable extinguishing media

No information available.

## 5.2 Specific hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors.

## 5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 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

Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes, and clothing.

# 6.2 Environmental precautions

Should not be released into the environment. See Section 12 for additional ecological information.

## 6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements.

## **SECTION 7: Handling and storage**

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# 7.1 Precautions for safe handling

## Precautions on safe handling

Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes, and clothing. Do not breathe vapors or spray mist.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

## 7.2 Conditions for safe storage, including any incompatibilities

## Storage conditions

Keep containers tightly closed in a dry, cool, 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	Туре	Value
Potassium hydroxide	(Vacated) Ceiling	2 mg/m3

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

Component	Туре	Value
Boron potassium oxide	TWA	2 mg/m3
	STEL	6 mg/m3
Potassium hydroxide	Ceiling	2 mg/m3

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

Component	Туре	Value
Potassium hydroxide	Ceiling	2 mg/m3

## **Biological occupational exposure limits**

No information available.

## 8.2 Exposure controls

#### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

## Personal protective equipment

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#### Eye/face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

## Skin protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

## **Body Protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

## Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## 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 Blue
Odor Odorless

Odor Threshold No information available

pH 10

Melting Point/Range 0 °C / 32 °F
Boiling Point/Range 100 °C / 212 °F
Evaporation Rate > 1 (Water = 1.0)
Flammability (solid) Not applicable
Flammability or explosive limit No data available

Upper

Lower

Vapor Pressure No information available Vapor Density No information available

Density 1.013 @ 25°C
Solubility Soluble in water
Partition coefficient: No data available

n-octanol/water

Autoignition Temp
Decomposition Temp
Viscosity
No information available
No information available
No information available

Molecular Formula N/A Molecular Weight N/A

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VOC Content(%)
Oxidizing properties

No information available No information available

## 9.2 Other safety information

No information available.

## **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

No information available.

## 10.2 Chemical stability

Stable under normal conditions.

## 10.3 Possibility of hazardous reactions

None under normal processing.

#### 10.4 Conditions to avoid

Excess heat.

## 10.5 Incompatible materials

None known.

# 10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapors.

## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

# **Product Information, Component Information**

**Acute toxicity** 

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Potassium carbonate	>2000 mg/kg (Rat)	-	-
Potassium hydroxide	284 mg/kg (Rat)	-	-

## Skin corrosion/irritation

No information available.

## Serious eye damage/eye irritation

No information available.

# Respiratory or skin sensitization

No information available.

## Germ cell mutagenicity

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No information available.

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Water	7732-18-5	Not listed				
EDTA disodium dihydrate	6381-92-6	Not listed				
Potassium carbonate	584-08-7	Not listed				
Boron potassium oxide	1332-77-0	Not listed				
Potassium hydroxide	1310-58-3	Not listed				

## Specific target organ toxicity - single exposure

None known.

## Specific target organ toxicity - repeated exposure

None known.

## Reproductive toxicity

No information available.

#### **Chronic effects**

No information available.

#### 11.2 Additional Information

The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

## **SECTION 12: Ecological information**

## 12.1 Toxicity

Do not empty into drains.

Product		Species	Test Results
Potassium carbonate	LC50	Pimephales promelas	<510 mg/L/96h
Potassium hydroxide	LC50	Freshwater Fish	80 mg/L/96h

# 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.

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## 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 regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

Not applicable.

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

Listed, Potassium hydroxide (CAS #1310-58-3), RQ: 1000 lb.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No SARA Hazards.

SARA 313 (TRI reporting)

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Not regulated.

#### Other federal regulations

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

Not regulated.

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

Not regulated.

## Clean Water Act (CWA)

Listed, Potassium hydroxide (CAS #1310-58-3), RQ: 1000 lb.

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

Not listed.

## **US state regulations**

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

Listed, Potassium hydroxide (CAS #1310-58-3).

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

Listed, Potassium hydroxide (CAS #1310-58-3).

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

Listed, Potassium hydroxide (CAS #1310-58-3).

#### California Proposition 65

Not listed.

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

Issue date: 03/14/2022 Revision 1: 11/07/2024

#### **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.

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