# **Buffer Solution pH 8**



## Section 1 Product Description

**Product Name:** Buffer Solution pH 8

Recommended Use: Science education applications

Synonyms: None known

**Distributor:** Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

### Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

Not a dangerous substance according to GHS classification criteria. No known OSHA hazards.

**GHS Classification:** 

# Section 3 Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Water
 7732-18-5
 99.08

 Potassium Phosphate, Monobasic
 7778-77-0
 0.72

 Sodium Hydroxide
 1310-73-2
 0.2

### Section 4 First Aid Measures

**Emergency and First Aid Procedures** 

**Inhalation:** In case of accident by inhalation: remove casualty to fresh air and keep at rest.

**Eyes:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Ingestion:** If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

## Section 5 Firefighting Procedures

**Extinguishing Media:** Use media suitable to extinguish surrounding fire.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

## Section 6 Spill or Leak Procedures

**Environmental Precautions:** Avoid breathing material. Avoid contact with skin and eyes.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

# Section 7 Handling and Storage

**Handling:** Avoid contact with skin and eyes.

**Storage:** Keep container tightly closed in a cool, well-ventilated place.

**Storage Code:** Green - general chemical storage

#### **Section 8 Protection Information**

**ACGIH OSHA PEL Chemical Name** (TWA) (STEL) (TWA) (STEL) Sodium Phosphate, Monobasic N/A N/A N/A N/A Sodium Hydroxide N/A N/A 2 mg/m3 TWA N/A

**Control Parameters** 

**Engineering Measures:** No exposure limits exist for the constituents of this product. General room ventilation

might be required to maintain operator comfort under normal conditions of use.

**Personal Protective Equipment (PPE):** Lab coat, apron, eye wash, safety shower.

**Respiratory Protection:** No respiratory protection required under normal conditions of use.

**Eye Protection:** Wear chemical splash googles when handling this product. Have an eye wash station

available.

**Skin Protection:** Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

> equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work.

Gloves: No information available

### Physical Data Section 9

Formula: See Section 3 Vapor Pressure: No data available

Molecular Weight: No data available Evaporation Rate (BuAc=1): No data available Appearance: Colorless Liquid Vapor Density (Air=1): No data available

Odor: None

Odor Threshold: No data available

8 :Ha

Melting Point: Estimated 0 C **Boiling Point: 100 C** 

Flash Point: No data available

Flammable Limits in Air: No data available

Specific Gravity: Approx. 1 Solubility in Water: Soluble

Log Pow (calculated): No data available Autoignition Temperature: No data available **Decomposition Temperature:** No data available

Viscosity: No data available

Percent Volatile by Volume: No data available

### Section 10 Reactivity Data

Reactivity: Not generally reactive under normal conditions.

Chemical Stability: Stable under normal conditions.

**Conditions to Avoid:** None known.

**Incompatible Materials:** Water-reactive materials, Acids

**Hazardous Polymerization:** Will not occur

#### Section 11 Toxicity Data

Routes of Entry Ingestion, skin and eye contact.

Symptoms (Acute): No data available **Delayed Effects:** No data available

**Acute Toxicity:** 

**Chemical Name CAS Number** Oral LD50 **Dermal LD50 Inhalation LC50** 

Water 7732-18-5 Oral LD50 Rat 90000 ma/ka

7778-77-0 Oral LD50 Rat Dermal LD50

Potassium Phosphate, Monobasic

3200 mg/kg Rabbit > 4640

mg/kg

Carcinogenicity:

**Chemical Name CAS Number IARC** NTP **OSHA** Potassium Phosphate, Monobasic 7778-77-0 Not listed Not listed Not listed 1310-73-2 Sodium Hydroxide Not listed Not listed Not listed

**Chronic Effects:** 

**Mutagenicity:** No evidence of a mutagenic effect.

**Teratogenicity:** No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

Reproductive: No evidence of negative reproductive effects.

**Target Organ Effects:** 

Acute: Respiratory system, Cardiovascular system, Musculoskeletal system

Chronic: No information available

## Section 12 Ecological Data

**Overview:** This material is not expected to be harmful to the ecology.

**Mobility:** This material is expected to have high mobility in soil. It absorbs weakly to most soil types.

Persistence: Dissolved into water

**Bioaccumulation:** Bioconcentration is not expected to occur.

**Degradability:** No data **Other Adverse Effects:** No data

Chemical NameCAS NumberEco ToxicityWater7732-18-5No data available

Potassium Phosphate, Monobasic 7778-77-0

Sodium Hydroxide 1310-73-2 Aquatic LC50 (96h) Rainbow Trout 45.4 MG/L

### Section 13 Disposal Information

**Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

### Section 14 Transport Information

**Ground - DOT Proper Shipping Name:**Not regulated for transport by US DOT.

Air - IATA Proper Shipping Name:
Not regulated for air transport by IATA.

# Section 15 Regulatory Information

**TSCA Status:** All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Potassium Phosphate, Monobasic	7778-77-0	No	No	No	No	No
Sodium Hydroxide	1310-73-2	No	1000 lb RQ	1000lb (454kg) final RQ	No	No

California Prop 65: No California Proposition 65 ingredients

Section 16	Additional
	Information

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The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary			
ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health