Buffer Solution pH 8



Product Description

Product Name: Recommended Use: Synonyms: Distributor:

Section 1

Buffer Solution pH 8 Science education applications None known Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200; Not a dangerous substance according to GHS classification criteria.

GHS Classification:

Section 2

Composition / Information on Ingredients

Chemical Name	CAS #_	<u>%</u>
Water	7732-18-5	99.08
Potassium Phosphate, Monobasic	7778-77-0	0.72
Sodium Hydroxide	1310-73-2	0.2

Section 4

Section 3

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

Section 6	Spill or Leak Procedures
Fire and/or Explosion Hazards:	Fire or excessive heat may produce hazardous decomposition products.
Hazardous Combustion Products:	Carbon dioxide, Carbon monoxide
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.

Environmental Precautions: Methods for Clean-up

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: Storage: Storage Code: Avoid contact with skin and eyes. Keep container tightly closed in a cool, well-ventilated place. Green - general chemical storage

Section 8	Protection	Protection Information					
	ACGIH		OSHA PEL				
Chemical Name	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>			
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 protecti	on required under no	rmal conditions of use.				
Eye Protection:	Wear chemical splash goggles 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 availab	le					

Formula: See Section 3 Molecular Weight: No data available Appearance: Colorless Liquid Odor: None Odor Threshold: No data available pH: 8 Melting Point: Estimated 0 C Boiling Point: 100 C Flash Point: No data available Flammable Limits in Air: No data available

Vapor Pressure: No data available Evaporation Rate (BuAc=1): No data available Vapor Density (Air=1): 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: Chemical Stability: Conditions to Avoid: Incompatible Materials: Hazardous Polymerization:

Reactivity Data

Not generally reactive under normal conditions. Stable under normal conditions. None known. Water-reactive materials, Acids Will not occur

Section 11

Toxicity Data

Routes of EntryIngesSymptoms (Acute):No daDelayed Effects:No da

Ingestion, skin and eye contact. No data available No data available

Acute Toxicity: Chemical Name Water	CAS Numbe 7732-18-5	r Oral LD50 Oral LD50 Rat 90000 mg/kg	Dermal LD50	Inhalation LC50
Potassium Phosphate, Monoba	asic 7778-77-0	Oral LD50 Rat 3200 mg/kg	Dermal LD50 Rabbit > 4640 mg/kg	
Carcinogenicity: Chemical Name	CAS Numbe	r IARC	NTP	OSHA
Potassium Phosphate, Monoba	asic 7778-77-0	Not listed	Not listed	Not listed
Sodium Hydroxide	1310-73-2	Not listed	Not listed	Not listed
Sensitization: No e Reproductive: No e Target Organ Effects: Acute: Re	vidence of a teratogenic effect (b vidence of a sensitization effect. vidence of negative reproductive espiratory system, Cardiovascula o information available	effects.	-	
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects:	This material is not expected to be harmful to the ecology. This material is expected to have high mobility in soil. It absorbs weakly to most soil types. Dissolved into water Bioconcentration is not expected to occur. No data No data			
Chemical Name Water Potassium Phosphate, Monoba	CAS Number 7732-18-5 asic 7778-77-0	Eco Toxicity No data available		
Sodium Hydroxide	1310-73-2	Aquatic LC50 (96h) R	ainbow Trout 45.4 MG/	L
Section 13	Dis	posal Informat	ion	
Disposal Methods:		e with all applicable Fed aste disposer (TSD) to a		egulations. Always
Waste Disposal Code(s):	Not Determined			
Section 14	Trop	oport Informat	lion	

Section 14

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

Transport Information

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

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Section 16

Additional Information

Revised: 02/19/2025

Replaces: 10/11/2024

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