

Safety Data Sheet

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;

GHS Classification:

Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<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 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.

Section 8 Protection Information

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Chemical Name	ACGIH		OSHA PEL	
	(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 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 available

Section 9

Physical Data

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 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 mg/kg

Potassium Phosphate, Monobasic

7778-77-0

Oral LD50 Rat

3200 mg/kg

Dermal LD50

Rabbit > 4640

mg/kg

Carcinogenicity:

Chemical Name

CAS Number

IARC

NTP

OSHA

Potassium Phosphate, Monobasic

7778-77-0

Not listed

Not listed

Not listed

Sodium Hydroxide

1310-73-2

Not listed

Not listed

Not listed

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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 Name**CAS Number****Eco Toxicity**

Water

7732-18-5

No 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
RQ1000lb (454kg)
final RQ

No

No

Section 16

Additional Information

Revised: 09/09/2015**Replaces: 09/03/2014****Printed: 10-29-2015**

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
Industrial Hygienists

CAS

Chemical Abstract Service Number

CERCLA

Comprehensive Environmental Response,
Compensation, and Liability Act

DOT

U.S. Department of Transportation

IARC

International Agency for Research on Cancer

N/A

Not Available

NTP

OSHA

PEL

ppm

RCRA

SARA

TLV

TSCA

IDLH

National Toxicology Program

Occupational Safety and Health Administration

Permissible Exposure Limit

Parts per million

Resource Conservation and Recovery Act

Superfund Amendments and Reauthorization Act

Threshold Limit Value

Toxic Substances Control Act

Immediately dangerous to life and health

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