Buffer Solution pH 6



Section 1

Product Description

Product Name: Buffer Solution pH 6

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:

Acute Toxicity - Dermal Category 2

Section 3

Composition / Information on Ingredients

Chemical Name	CAS#	<u>%</u>
Water	7732-18-5	98.73
Potassium Biphthalate	877-24-7	1.08
Sodium Hydroxide	1310-73-2	0.19

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.

Skin Contact: After contact with skin, wash immediately with plenty of water.

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

Steps to Take in Case Material Is Released or Spilled: No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS

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: Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do no eat, drink or smoke when

using this product. Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with

skin and eyes.

Storage: Store locked up. Keep container tightly closed in a cool, well-ventilated place.

Storage Code: Green - general chemical storage

Section 8 Protection Information

	ACG	<u>OSHA PEL</u>		
Chemical Name	<u>(TWA)</u>	(STEL)	(TWA)	(STEL)
Potassium Biphthalate	N/A	N/A	N/A	N/A
Sodium Hydroxide	N/A	N/A	2 mg/m3 TWA	N/A

Control Parameters

Engineering Measures: Local exhaust ventilation or other engineering controls are normally required when

handling or using this product to avoid overexposure.

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

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

Respirator Type(s):None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection. **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: 6

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: 10

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, Strong oxidizing agents

Hazardous Polymerization: Will not occur

Section 11

Toxicity Data

Routes of Entry Inhalation, ingestion, eye or skin contact.

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

Acute Toxicity:

Dermal LD50 Inhalation LC50 Chemical Name CAS Number Oral LD50

Water 7732-18-5

Oral LD50 Rat 90000 mg/kg

Oral LD50 Rat > Potassium Biphthalate 877-24-7 Dermal LD50

3200 mg/kg

Guinea pig > 1000 mg/kg

Carcinogenicity:

Chemical Name CAS Number IARC NTP OSHA Not listed Potassium Biphthalate 877-24-7 Not listed Not listed Sodium Hydroxide 1310-73-2 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.

No evidence of negative reproductive effects. Reproductive:

Target Organ Effects:

Acute: No information available Chronic: No information available

Section 12 **Ecological Data**

Overview: 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. Mobility:

Persistence: Dissolved into water, Biodegradation

Bioaccumulation: No data No data Degradability: Other Adverse Effects: No data

Chemical Name CAS Number Eco Toxicity 7732-18-5 No data available Water

Potassium Biphthalate 877-24-7

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.

§ 304 RQ

CERCLA RQ

§ 302 TPQ

Waste Disposal Code(s): Not Determined

Section 14 Transport Information

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

Section 15 Regulatory Information

CAS

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

	Number					TQ
Potassium Biphthalate	877-24-7	No	No	No	No	No
Sodium Hydroxide	1310-73-2	No	1000 lb RQ	1000lb (454kg) final RQ	No	No

§ 313 Name

Section 16 Additional Information

Revised: 09/03/2014 Replaces: 09/03/2014 Printed: 09-11-2014

Chemical Name

CAA 112(2)

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	V
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O.000a.,			
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