Phosphate Buffer Solution, 0.1M



%

6.8

3.15

90.05

Section 1

Product Description

Product Name: Recommended Use: Synonyms: Distributor: Phosphate Buffer Solution, 0.1M Science education applications Potassium Phosphate Buffer Solution 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;

GHS Classification:

Section 2

Other Safety Precautions:

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

CAS #

7732-18-5

7778-77-0

7758-11-4

Composition / Information on Ingredients

Chemical Name

Section 3

Water
Potassium Phosphate, Monobasic
Potassium Phosphate, Dibasic

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
Fire and/or Explosion Hazards: Hazardous Combustion Products:	breathing apparatus. N/A Carbon dioxide, Carbon monoxide, Potassium Oxide

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 No special spill clean-up considerations. Collect and discard in regular trash. Absorb the liquid and scrub the area with detergent and water.

Section 7

Handling and Storage

Handling:Keep container tightly closed in a cool, well-ventilated place.Storage:Suitable for any general chemical storage.Storage Code:Green - general chemical storage

Section 8	Protection	Information		
	AC	<u>GIH</u>	<u>OSH</u>	A 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
Control Parameters				
Engineering Measures:	•	st for the constituents on aintain operator comfo		
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.			
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:	Butyl rubber, Neopren	e. Nitrile. Polvvinvl chlo	ride	

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

nyerear Data

Vapor Pressure: N/A Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A Specific Gravity: N/A 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: 0%

Section 10

Reactivity: Chemical Stability: Conditions to Avoid: Incompatible Materials: Hazardous Decomposition Products: Hazardous Polymerization:

Reactivity Data

No data available Stable under normal conditions. Exposure to moisture Water-reactive materials, Strong oxidizing agents, Strong reducing agents ets: Potassium Oxide, Carbon dioxide, Carbon monoxide Will not occur

Section 11

Delayed Effects:

Routes of Entry	N/A
Symptoms (Acute):	, Eye diso

, Eye disorders 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	Dermal LD50	
		3200 mg/kg	Rabbit > 4640	
			mg/kg	

Toxicity Data

Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
Potassium Phosphate, Monobasic	7778-77-0	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:	See Section 2
Chronic:	N/A

Section 12

Overview: Mobility:

Persistence:

Degradability:

Bioaccumulation:

Other Adverse Effects:

Ecological Data

This material is not expected to be harmful to the ecology. No data No data No data No data No data No data

Chemical Name	
Water	
Potassium Phosphate, Monobasic	

CAS NumberEco Toxicity7732-18-5No data available7778-77-0

Section 13

Disposal Methods:

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. Not Determined

Air - IATA Proper Shipping Name:

Not regulated for air transport by IATA.

Waste Disposal Code(s):

Section 14

Transport Information

Disposal Information

Ground - DOT Proper Shipping Name: Not Regulated for Transport

Section 15

Regulatory Information

Additional 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

Section 16

Revised: 09/09/2015

Replaces: 03/27/2015

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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

Glossaly			
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