

SAFETY DATA SHEET (SDS)

Phosphate Buffer

01. Product and Company Identification

Product Identifier:

Trade Name: Phosphate Buffer, pH 6.0, pH 9.1 or custom
Chemical Name: Phosphate Buffer
Catalog Number: pH 6.0 – 14006381, pH 9.1 – 14000049
Kit Number:
Use of chemical: Buffer

Identification of Manufacturer:

Manufacturer/Supplier: Biochemical Diagnostics, Inc.
 180 Heartland Blvd., Edgewood, NY 11717
 Phone: (631) 595-9200 | Fax: (631) 595-9204
Emergency telephone number: (800) 255-3924

02. Hazard(s) Identification

Classification of substance or mixture:

Skin irritation (Category 3) / Eye irritation (Category 2B)
Causes mild skin irritation. Causes eye irritation.

Label elements:

N/A

Signal word: Warning

Hazard statements:

H316 Causes mild skin irritation. H320 Causes eye irritation.

Precautionary statements:

P264 Wash skin thoroughly after handling.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P332+P313 IF SKIN IRRITATION OCCURS: Get medical advice/attention.

Classification system:

NFPA ratings (scale 0 - 4)



Health = 1
 Fire = 0
 Reactivity = 0

HMIS-ratings (scale 0 - 4)

HEALTH	1
FIRE	0
REACTIVITY	0

Health = 1
 Fire = 0
 Reactivity = 0

03. Composition/information on ingredients

Chemical Characterization: Mixture

CAS No. Description: N/A to mixtures

Formula: Mixture of: Sodium/Potassium Phosphate Mono or Dibasic in Water

SAFETY DATA SHEET (SDS)

Phosphate Buffer

04. First aid measures

Description of first aid measures:

Inhalation: Remove to fresh air.
Ingestion: Rinse mouth with water. If symptoms persist seek medical attention.
Skin Contact: Wash with soap and water. If symptoms persist consult a physician.
Eye Contact: Rinse with thoroughly with plenty of water for at least 15 minutes. If symptoms persist, seek medical attention.

05. Firefighting measures

Extinguishing media: Water, dry chemical, or carbon dioxide.

Special Fire Fighting Procedures: Standard firefighting procedure/gear.

Unusual Fire and Explosion Hazards: N/A

06. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment.

Environmental precautions:

N/A

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders) and remove.

Waste Disposal Method:

Dispose in accordance with state, local and federal regulations

07. Handling and storage

Handling:

Precautions for safe handling: Do not ingest. Do not breathe gas/fumes/ vapor/spray.

Information about protection against explosions and fires: N/A

Conditions for safe storage, including any incompatibilities:

Requirements to be met by storerooms and receptacles: Keep container tightly closed.

Further information about storage conditions: Keep container in a cool, well-ventilated area. Do not store above 25°C (77°F).

08. Exposure controls/ personal protection

Exposure Controls:

Control parameters:

Components with limit values that require monitoring at the workplace:

Contains no substances with occupational exposure limit values.



Personal protective equipment:

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

SAFETY DATA SHEET (SDS)

Phosphate Buffer

Eye Protection:		Tightly sealed goggles
Skin Protection:	Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact	
Protection of Hands:		Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.		
Respiratory Protection:	None required.	
Ventilation:	Keep vapor levels as low as possible, use adequate general or local exhaust.	

09. Physical and chemical properties

Appearance:	
Form:	Liquid
Color:	Colorless
Odor:	None
pH:	Either 6.0 or 9.1 depending on product, custom have various pHs
Melting Point:	N/A
Boiling Point:	N/A
Flash Point:	N/A
Ignition temperature:	N/A
Explosion limits:	Lower: N/A Upper: N/A
Vapor Pressure @ 19°C:	N/A
Specific Gravity @ 20°C (68°F):	1.020 g/cm ³
Vapor Density:	N/A
Percent Volatile:	N/A
Evaporation Rate:	N/A
Flammable Limits in air % by volume:	Lel: N/A Uel: N/A
Solubility in/ Miscibility with Water@20°C:	Completely soluble

10. Stability and reactivity

Stability:	Stable
Incompatibility:	Strong acids, alkalis.
Conditions to Avoid:	Heat, sparks, open flame, open containers and poor ventilation. Extreme temperatures and sunlight.
Hazardous Polymerization:	Will not occur
Hazardous Decomposition:	Oxides of Phosphorus



SAFETY DATA SHEET (SDS)

Phosphate Buffer

11. Toxicological information

Acute toxicity:

LD/LC50 values that are relevant for classification: Sodium phosphate, dibasic

Oral LD50 17,000 mg/kg (rat)

Potassium phosphate, monobasic

Oral LD50 4640 mg/kg (rat)

Dermal LD50 >4650 mg/kg (rabbit)

Potential health effects:

On the skin: Mild irritation.

On the eye: Mild irritation.

Ingestion: May cause irritation of digestive tract.

Inhalation: May cause respiratory tract and mucous membrane irritation.

Sensitization: No sensitizing effects known.

12. Ecological information

Toxicity: No data available.

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Other adverse effects: No data available.

13. Disposal considerations

Waste treatment methods

Product:

Dispose of waste in accordance to applicable national, regional, or local regulations.

Contaminated packaging:

Disposal must be made according to official regulations.

14. Transport Information

Not dangerous goods

15. Regulatory Information

SARA 302 Components:

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards:

No data available

Phosphate Buffer

16. Other Information

Revision B, June 2015

The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, we make no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for a particular purpose. Accordingly, we will not be responsible for damages of any kind resulting from the use of or reliance upon such information.

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