

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

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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.

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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

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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**

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