

Effective date: 23/09/2026	Hy-Labs Cat. No: TT373	MSDS FORMAT	
Doc. No: MSDS- TT373		MATERIAL SAFETY DATA SHEET	Replace Doc: NA

1- Product and Company Identification	
Product Name	PHOSPHATE BUFFER PH 6.8, 35ML
Reference number	TT373
Identified uses	Laboratory buffer solution. For In-Vitro Diagnostic (IVD) use only. Not for human or animal consumption.
Manufacturer	Hy-Laboratories Ltd. Park Tamar, Rehovot, 76326, Israel Tel: 972-8-9366475 Fax: 972-8-9366474
2- HAZARDS IDENTIFICATION	
GHS Classification (Regulation (EC) No 1272/2008 / GHS): Not classified as a hazardous substance or mixture. Label elements: No signal word, hazard pictogram, or hazard statement required. Other hazards: None known. This product is a dilute aqueous buffer solution prepared from non-hazardous, GHS-non-classified laboratory reagents.	
3- COMPOSITION/INFORMATION ON INGREDIENTS	
This product is an aqueous solution containing the following components: 1) Potassium Dihydrogen Phosphate (KH_2PO_4) CAS No.: 7778-77-0 EC No.: 231-913-4 Concentration: 2.27 g/L (approx. 0.23% w/v) Classification: Not classified as hazardous (GHS/CLP) 2) Disodium Hydrogen Phosphate Dihydrate ($\text{Na}_2\text{HPO}_4 \cdot 2\text{H}_2\text{O}$) CAS No.: 10028-24-7 EC No.: 231-448-7 Concentration: 2.97 g/L (approx. 0.30% w/v) Classification: Not classified as hazardous (GHS/CLP) 3) Water (purified/deionized) - solvent CAS No.: 7732-18-5 EC No.: 231-791-2 Concentration: Balance to volume (35 mL) Classification: Not classified as hazardous	
4- First Aid Measures	
Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. If irritation persists, seek medical attention. Skin contact: Wash with plenty of water. Remove contaminated clothing. If irritation develops, seek medical attention. Inhalation: Not an expected route of exposure for a liquid aqueous solution. If mist/aerosol is inhaled and irritation occurs, remove to fresh air. Ingestion: Rinse mouth with water. Do not induce vomiting. If large quantities are swallowed or discomfort occurs, seek medical advice. Note to physician: Treat symptomatically. No specific antidote required.	
5- Fire Fighting Measures	
This product is an aqueous solution and is not flammable or combustible. Suitable extinguishing media: Use extinguishing media appropriate to the surrounding fire (water spray/fog, CO2, dry chemical, foam).	

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Unsuitable extinguishing media: None known.

Specific hazards: None known. May release phosphorus oxides on decomposition at high temperature.

Special protective equipment for firefighters: Use self-contained breathing apparatus and full protective equipment for fires involving surrounding materials.

6- Accidental Release Measures

Personal precautions: Ensure adequate ventilation. Avoid contact with eyes and skin. Use standard laboratory PPE.

Environmental precautions: Prevent large spills from entering drains, waterways, or soil.

Methods for containment and cleanup: Absorb with inert absorbent material (e.g., paper towel), collect in a suitable container, and rinse the spill area with water. Small spills may be wiped up and rinsed with water.

7- Handling and Storage

Handling: Handle using normal good laboratory practice. Avoid contact with eyes and skin. Wash hands after handling. Do not ingest.

Storage: Store tubes tightly closed, in their original packaging, away from direct sunlight and sources of contamination. Store as indicated on the product label/certificate of analysis. Protect from freezing/extreme temperature excursions.

8- Exposure Controls, Personal Protection

Occupational exposure limits: No specific occupational exposure limits (OEL/TLV) have been established for this product or its components at the concentrations present.

Engineering controls: No special ventilation is required for normal handling of this dilute aqueous solution; use in a well-ventilated area.

Personal protective equipment:

Eye protection: Safety glasses recommended.

Skin protection: Laboratory coat and gloves recommended as good laboratory practice.

Respiratory protection: Not normally required under conditions of normal use.

9- Physical and Chemical Properties

Appearance: Clear, colorless aqueous liquid

Odor: Odorless

pH: 6.8 ± 0.05 (at 25°C)

Melting/Freezing point: Approx. 0°C (aqueous solution)

Boiling point: Approx. 100°C (aqueous solution) not specifically determined for the mixture.

Flash point: Not applicable (aqueous, non-flammable)

Flammability: Not flammable

Solubility: Fully miscible with water

Density (relative): Approx. 1.0 g/mL

(Values are typical for a dilute aqueous buffer of this composition; not independently measured for this batch.)

Explosive properties: Not expected.

Oxidizing properties: Not expected.

10- Stability and Reactivity

Chemical stability: Stable under normal conditions of storage, handling, and use.

Possibility of hazardous reactions: None known under normal use.

Conditions to avoid: Freezing, prolonged exposure to high temperature, contamination, and evaporation to dryness.

Incompatible materials: Strong acids, strong bases, strong oxidizing agents (relevant to the concentrated raw components; not applicable at the dilute concentrations in this product).

Hazardous decomposition products: None expected under normal conditions of use and storage. thermal decomposition may produce irritating inorganic decomposition products.

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11- Toxicological Information

Acute toxicity: The components are common, low-hazard laboratory/pharmacopoeial-grade salts, not classified as hazardous. Reported oral LD50 for disodium hydrogen phosphate dihydrate (rat) is > 2000 mg/kg; potassium dihydrogen phosphate is considered practically non-toxic (dermal LD50, rabbit, > 4640 mg/kg).

Skin corrosion/irritation: Not expected to be irritating at the concentrations present in this product. prolonged contact may cause mild irritation

Serious eye damage/irritation: Not expected to be irritating at the concentrations present in this product. avoid direct contact

Sensitization: Not known to be a skin or respiratory sensitizer.

Other information: No chronic health effects known from normal laboratory use of this product.

Germ cell mutagenicity: No data indicating classification.

Carcinogenicity: No data indicating classification.

Reproductive toxicity: No data indicating classification.

STOT – single exposure: No data indicating classification.

STOT – repeated exposure: No data indicating classification.

Aspiration hazard: Not applicable to this aqueous solution.

12- Ecological Information

Ecotoxicity: Not expected to be harmful to aquatic organisms at the concentrations present; components are common inorganic phosphate buffer salts.

Persistence and degradability: Not applicable (inorganic substances).

Bioaccumulative potential: Not expected to bioaccumulate.

Mobility in soil: No data available; phosphate salts are water-soluble. Expected to be mobile in aqueous systems.

Other adverse effects: Phosphate content should be considered in the context of local wastewater/eutrophication regulations for large-volume disposal. Large releases should be prevented from entering waterways.

PBT/vPvB assessment: Not applicable / not assessed for the finished mixture.

13- Disposal Information

Dispose of unused product and contaminated material in accordance with applicable local, national and institutional requirements.

Small quantities may be disposed of according to the laboratory's procedures for non-hazardous aqueous laboratory solutions, where permitted.

Do not discharge significant quantities into drains or the environment without confirming local requirements.

Empty containers should be disposed of according to applicable regulations.

14- Transport Information

Not classified as a dangerous good for transport by road (ADR), rail (RID), sea (IMDG), or air (IATA/ICAO).

UN Number: Not applicable

UN Proper Shipping Name: Not applicable

Transport Hazard Class(es): Not applicable

Packing Group: Not applicable

Environmental hazards: Not classified as environmentally hazardous for transport.

Special precautions: Protect from physical damage, excessive heat and freezing during transport. Maintain validated temperature conditions where required for product quality.

15- Regulatory Information

This product is not classified as hazardous under Regulation (EC) No 1272/2008 (CLP) / GHS.

The components are common laboratory reagents generally listed on major chemical inventories (e.g., TSCA, EINECS/ELINCS).

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For In-Vitro Diagnostic (IVD) use only - ensure compliance with applicable local IVD regulatory requirements (e.g., IVDR (EU) 2017/746 where applicable) in addition to this chemical safety data sheet.
Users are responsible for determining any additional applicable regulations for their jurisdiction and intended use.

16- Other Information

For In-Vitro use only.

Disclaimer

The information contained in this Safety Data Sheet is believed to be accurate based on the current knowledge of the product and its components. It is intended solely as guidance for the safe handling, storage, use, transport, and disposal of the product and should not be considered a warranty or quality specification. Users are responsible for ensuring compliance with applicable local, national, and international regulations.