

Effective date: 03/08/2026	Hy-Labs Cat. No: BP731/500D	MSDS FORMAT	
Doc. No: MSDS- BP731/500D		MATERIAL SAFETY DATA SHEET	Replace Doc: NA

1- Product and Company Identification		
Product Name	Ultra-Pure Water (Nuclease-free)	
Reference number	BP731/500D	
Identified uses	Laboratory reagent for molecular biology and general laboratory Recommended Use: Laboratory chemicals, Molecular Biology applications (PCR, NGS, Cell Culture) Uses Advised Against: Not for human or veterinary diagnostic or therapeutic use	
Manufacturer	Hy-Laboratories Ltd. Park Tamar, Rehovot, 76326, Israel Tel: 972-8-9366475 Fax: 972-8-9366474	
2- HAZARDS IDENTIFICATION		
GHS Classification: Not a hazardous substance or mixture according to the Globally Harmonized System (GHS). GHS Label Elements: Not applicable. No hazard pictograms, signal words, hazard statements, or precautionary statements required. Other Hazards: None known. Highly pure water does not present any chemical health or physical hazards.		
3- COMPOSITION/INFORMATION ON INGREDIENTS		
Component	CAS No.	Concentration
Water (H ₂ O)	7732-18-5	100%
4- First Aid Measures		
Inhalation: No specific treatment required. Move person to fresh air if unusual respiratory discomfort occurs. Skin Contact: No risk of skin damage. Wash off with clean water. Seek medical advice if irritation occurs. Eye Contact: Flush eyes thoroughly with water for at least 15 minutes as a standard precaution. Remove contact lenses if present. Ingestion: Rinse mouth out thoroughly with fresh water. Safe to consume in small amounts; seek medical attention if feeling unwell.		
5- Fire Fighting Measures		
Flammability: Non-flammable, non-combustible. The substance itself does not burn. Extinguishing Media: Use extinguishing methods suited to the surrounding environment (dry chemical, CO ₂ , water spray, foam). Specific Hazards: No unusual hazards. Does not produce hazardous decomposition products during a fire.		
6- Accidental Release Measures		
Personal Precautions: Use appropriate standard laboratory personal protective equipment (gloves, safety glasses). Mop up spills swiftly to prevent slips. Environmental Precautions: Product is entirely safe for the environment. No special containment strategies required. Clean-up Methods: Soak up with absorbent materials (such as paper towels, vermiculite) or simply mop up and discard into standard drains.		
7- Handling and Storage		

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Handling: Handle following standard laboratory hygiene. Avoid direct contamination of the bottle rim to protect nuclease-free properties.

Storage: Store bottles sealed securely in a dry, well-ventilated location at room temperature (15–25°C)
Clean laboratory environment. Protect from contamination
or as recommended on label instructions.

8- Exposure Controls, Personal Protection

Exposure Limits: This substance does not have any established regulatory or industrial occupational exposure limit mandates.

Engineering Controls: Standard laboratory setups (ventilation, eye wash facilities) are sufficient.

Personal Protective Equipment (PPE):

- **Eye/Face:** Use safety glasses with side shields if splashing risks exist.
- **Skin/Body:** Wear standard lab coats and nitrile disposable gloves to preserve sterility.
- **Respiratory:** None needed under typical operating procedures.

9- Physical and Chemical Properties

Physical State: Liquid

Odor: Odorless

Appearance: Clear, colorless

pH: Neutral (~5.0 - 7.0)*

Boiling Point: 100 °C (212 °F)

Melting Point: 0 °C (32 °F)

Density: 1.00 g/cm³

Solubility: Miscible in water

***Note:** Ultrapure water does not contain enough free ions for an accurate pH electrode reading without special equipment.

10- Stability and Reactivity

Reactivity: Fully stable and non-reactive under typical usage or ambient storage conditions.

Chemical Stability: Stable under normal room temperatures and pressure limits.

Hazardous Reactions: None known. Will not undergo hazardous polymerization.

Incompatible Materials: Strong water-reactive chemicals (e.g., sodium metal, phosphorus pentoxide).

11- Toxicological Information

Acute Toxicity: Non-toxic. Oral LD50 (Rat): >90 mL/kg.

Skin/Eye Corrosion: Non-irritating. No corrosive properties.

Carcinogenicity: Not listed as a carcinogen by IARC, NTP, ACGIH, or OSHA.

12- Ecological Information

Ecotoxicity: Non-toxic to aquatic life or plants. Fully biodegradable, non-bioaccumulative.

13- Disposal Information

Dispose according to local laboratory procedures.

May generally be disposed of as non-hazardous aqueous waste unless contaminated during use.

Can be flushed down clean laboratory drains. Empty plastic 500ml bottles should be recycled appropriately.

14- Transport Information

DOT / IMDG / IATA: Not regulated as a hazardous material for transport. No restrictions apply.

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15- Regulatory Information

GHS Classification: Not hazardous.

OSHA Hazard Communication Standard (29 CFR 1910.1200): Not classified as hazardous.

EU CLP Regulation (EC No. 1272/2008): Not classified.

REACH: No restrictions applicable for water.

16- Other Information

For In-Vitro use only.

NFPA 704 Rating: Health: 0, Flammability: 0, Instability: 0, Special: None

Disclaimer: The information provided here is correct to the best of our knowledge. This is for informational purposes only.

The information in this MSDS is based on current and reliable sources but does not purport to be all inclusive and shall be used only as a guide.

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

This information cannot be considered a guarantee of the properties of the product; it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products.

All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.