



SAFETY DATA SHEET

1. Identification:

Product Identifier: Buffer Reference Solution pH 9.18
Product code: BB8034
Synonym(s): Buffer Reference Solution pH 9.18
Recommended use: Manufacture of other chemical products, professional, scientific, and technical activities.
Recommended restrictions: None known.

Manufacturer/Supplier/Distributor Information

Company name: Biopharm Inc.
Address: 187 South Tilley Road
Hatfield, AR 71945
Telephone: (870) 389-6114
Website: www.bphchem.com
E-mail: support@bphchem.com
Emergency phone number: Chemtrec 800-424-9300

2. Hazard(s) identification:

Classification: This product is not categorized as hazardous in any GHS hazard class.
Label elements: None required.
Signal word: None required.
Hazard statement: None required.
Precautionary statement:
Prevention Observe good industrial hygiene practices.
Response Wash hands after handling.
Storage Store bottles tightly capped and upright. Keep in a cool place away from direct sunlight.
Disposal Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC): None known.
Supplemental information: None.

3. Composition/information on ingredients

Mixtures

<u>Chemical Name</u>	<u>CAS number</u>	<u>%</u>
Water	7732-18-5	99.62
Sodium Tetraborate, Decahydrate	1303-96-4	0.38

4. First-aid measures

Inhalation:	Allow victim to breathe fresh air. Allow the victim to rest.
Ingestion:	Rinse mouth. Get medical attention if symptoms occur.
Skin contact:	Wash with warm water and soap. Get medical attention if irritation develops and persists.
Eye contact:	Irrigate with cool running water. If irritation develops, obtain medical care.
Most important symptoms/effects, acute and delayed:	Direct contact with eyes may cause temporary irritation.
General information:	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media:	Any media necessary for extinguishing the surrounding fire.
Unsuitable extinguishing media:	No information available.
Specific hazards arising from the chemical	None known.
Special protective equipment and precautions for firefighters	Wear approved self-contained protective clothing.
Fire-fighting equipment/instructions	Any media necessary for extinguishing the surrounding fire.

6. Accidental release measures

Personal precautions, protective equipment, and emergency procedures:	Keep unnecessary personnel away.
Methods and materials for containment and cleaning up:	Wash spill area with soap and water. Prevent further leakage or spillage if safe to do so. Never return spills to original containers for reuse. For waste disposal, see section 13 of the SDS.
Environmental precautions:	None identified.

7. Handling and storage

Precautions for safe handling:	Avoid prolonged exposure. Observe good industrial hygiene practices.
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Conditions for safe storage, including any incompatibilities: Store bottles tightly capped and upright. Keep in a cool place away from direct sunlight. Store away from incompatible materials.

8. Exposure controls/personal protection

Exposure Guidelines: No exposure limits noted for ingredient(s).

Engineering measures: Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment:

Eye/face protection: Wear protective eyeglasses or chemical safety goggles.

Skin and body protection: Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance: Colorless

Odor: Odorless.

Odor threshold: No data available.

Vapor Pressure (mm Hg): No data available

Vapor density (Air = 1): No data available

pH: 6.18

Relative density: No data available.

Melting point/freezing point: No data available

Solubility in Water: Soluble in water.

Boiling Point (°F): No data available.

Flash point: No data available.

Evaporative Rate (H₂O = 1): 1

Flammability (solid, gas): Nonflammable

Upper/lower flammability or explosive limits

Flammability limit - lower Not applicable.

Flammability limit - upper Not applicable.

Explosive limit - lower Not applicable.

Explosive limit - upper Not applicable.

Partition coefficient: n-octanol/water No data available.

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: No data available

Other information:

10. Stability and reactivity

Reactivity:	Product is stable and non-reactive under ordinary conditions of use, storage and transport.
Chemical stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Hazardous polymerization will not occur.
Conditions to avoid:	None known.
Incompatible materials:	Strong oxidizers.
Hazardous decomposition products:	Phosphorus oxides. Sodium oxide.

11. Toxicological information

Information on likely routes of exposure:

Ingestion:	Expected to be a low ingestion hazard.
Inhalation:	Prolonged inhalation may be harmful.
Skin Contact:	No adverse effects due to skin contact are expected.
Eye Contact:	May cause mild irritation.

Information on toxicological effects

Acute toxicity

<u>Component</u>	<u>LD50 Oral</u>	<u>LD50 Dermal</u>	<u>ATE US</u>
Sodium Tetraborate, Decahydrate	2660 mg/kg (rat)	10000 mg/kg (rabbit)	2660.000 mg/kg body weight 10000.000 mg/kg body weight
Water	≥90000 mg/kg (rat)		90000.000 mg/kg body weight

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	May cause irritation to skin on contact.
Serious eye damage/irritation	May cause irritation to eyes on contact.
Respiratory Sensitization	No data available.
Skin sensitization	No data available.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, NTP, or OSHA.
Mutagenic effects	No data available.
Reproductive effects	No data available.
STOT – single exposure	No data available.
STOT – repeated exposure	No data available.
Aspiration hazard	No data available.
Chronic effects	No data available.

12. Ecological information

Ecotoxicity:	Not expected to be harmful to aquatic animals.
Persistence and degradability:	No data available
Bioaccumulation/Accumulation:	No data available
Mobility in soil:	No data available
Other adverse effects:	No adverse environmental effects (e.g. ozone depletion, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Waste disposal methods:	To be performed in compliance with all current local, state and federal regulations. Spills onto sand, soil, or other absorbent may be handled by placing the affected soil into approved containers then label and store for proper treatment or disposal.
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14. Transport information

DOT:	Not regulated as dangerous goods.
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15. Regulatory information

U.S. Federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	Not regulated
U.S. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not regulated
CERCLA Hazardous Substances List (40 CFR 302.4)	Sodium Hydroxide Listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories	Immediate Hazard – No
	Delayed Hazard – No
	Fire Hazard – No
	Pressure Hazard – No
	Reactivity Hazard – No

Other Federal regulations

Clean Air Act	Not applicable
Clean Water Act	Not applicable
California Prop 65	This product does not contain any Proposition 65 chemicals.

16. Other information, including date of preparation or last revision

Revision date	August 23, 2022
Disclaimer	The statements contained herein are offered as informational data only and are believed to be correct. However, this product should be handled by persons having related technical skills, and at their own discretion and risk. Since seller has no control over the use of this product, no warranty, expressed or implied, is made and seller assumes no liability in connection with any use of this information or from contact and/or handling of this product.