

# Bacteriostatic Water

Research laboratory solution | Document ID: FR-SDS-BACTERIOSTATICWATER-001

## 01 IDENTIFICATION

|                     |                                                                                   |
|---------------------|-----------------------------------------------------------------------------------|
| PRODUCT IDENTIFIER  | Bacteriostatic Water                                                              |
| OTHER IDENTIFIERS   | Not applicable (mixture / solution)                                               |
| CAS NO.             | Not applicable to mixture                                                         |
| RECOMMENDED USE     | Laboratory chemicals / research use only                                          |
| RESTRICTIONS ON USE | Not for human or veterinary diagnostic, therapeutic, prophylactic or dietary use. |
| RESPONSIBLE PARTY   | Fraction Research - [INSERT LEGAL ENTITY NAME]                                    |
| U.S. ADDRESS        | [INSERT U.S. STREET ADDRESS, CITY, STATE, ZIP]                                    |
| TELEPHONE           | [INSERT BUSINESS TELEPHONE]                                                       |
| EMERGENCY TELEPHONE | [INSERT 24-HOUR EMERGENCY NUMBER / CHEMTREC ACCOUNT IF APPLICABLE]                |

## 02 HAZARD(S) IDENTIFICATION

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| REFERENCE CLASSIFICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | No compound-specific GHS hazard classification is assigned in this reference SDS because the exact manufacturer/importer hazard determination and formulation have not been supplied. Toxicological data are limited. Handle as a potentially hazardous laboratory chemical and reconcile Section 2 to the qualified supplier SDS before distribution. |
| <ul style="list-style-type: none"><li>Reference product is an aqueous research solution. The exact mixture classification must be based on the qualified supplier formulation and SDS.</li><li>For a 0.9% benzyl alcohol reference formulation, avoid ingestion and eye contact and use normal laboratory hygiene. Do not infer injection suitability from this SDS.</li><li>No pictogram or signal word is assigned in this development reference document pending reconciliation to the actual supplied product.</li></ul> |                                                                                                                                                                                                                                                                                                                                                        |

## 03 COMPOSITION / INFORMATION ON INGREDIENTS

|                   |                                                                                                                                             |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| MIXTURE           | Bacteriostatic Water - aqueous solution                                                                                                     |
| WATER             | CAS 7732-18-5; approximately 99.1% w/v reference composition                                                                                |
| BENZYL ALCOHOL    | CAS 100-51-6; 0.9% (9 mg/mL) reference preservative concentration                                                                           |
| EXACT COMPOSITION | Qualified supplier formulation and lot documentation control. Do not publish if the actual product differs from this reference composition. |

04 FIRST-AID MEASURES

- Inhalation: Move person to fresh air and keep comfortable for breathing. Obtain medical advice if symptoms develop or persist.
- Skin contact: Wash with plenty of water and soap. Remove contaminated clothing. Obtain medical advice for persistent irritation.
- Eye contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing; obtain medical attention if irritation persists.
- Ingestion: Rinse mouth. Do not induce vomiting unless directed by medical personnel. Obtain medical advice if a meaningful exposure is suspected.
- Most important symptoms/effects: Substance-specific human toxicology data are limited; treat irritation, respiratory discomfort, gastrointestinal symptoms or unexpected effects conservatively.

05 FIRE-FIGHTING MEASURES

- Suitable extinguishing media: Use extinguishing media appropriate for the surrounding fire; carbon dioxide, dry chemical, foam or water may be used as conditions warrant.
- Specific hazards: Thermal decomposition may generate irritating or hazardous fumes. Avoid inhalation of combustion products.
- Firefighter protection: Use appropriate protective equipment and self-contained breathing apparatus when conditions require.

06 ACCIDENTAL RELEASE MEASURES

- Use appropriate PPE. Contain spill with inert absorbent material and prevent entry to drains or waterways.
- Collect absorbed material in a suitable closed waste container and clean the surface using appropriate laboratory procedures.
- Avoid generating aerosols and avoid direct eye/skin contact.

07 HANDLING AND STORAGE

- Handle using good laboratory chemical hygiene. Avoid ingestion and contact with eyes or skin.
- Keep container tightly closed and protect closure integrity; avoid contamination during repeated laboratory access.
- Store according to the qualified supplier/manufacturer specification and labeled storage conditions.
- This SDS does not establish sterility, post-opening stability, injection suitability or shelf life.

08 EXPOSURE CONTROLS / PERSONAL PROTECTION

|                              |                                                                                                                                                                      |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OCCUPATIONAL EXPOSURE LIMITS | No compound-specific OSHA PEL or validated occupational exposure limit is established in this reference document.                                                    |
| ENGINEERING CONTROLS         | Use adequate local ventilation; a chemical fume hood is appropriate when dust or aerosol generation is possible.                                                     |
| EYE PROTECTION               | Safety glasses or chemical splash goggles appropriate to the task.                                                                                                   |
| HAND PROTECTION              | Chemical-resistant disposable gloves selected for the task and compatible with other materials in use.                                                               |
| SKIN / BODY                  | Laboratory coat or other protective clothing appropriate to exposure potential.                                                                                      |
| RESPIRATORY                  | Avoid dust/aerosol generation. If adequate ventilation cannot be maintained, use respiratory protection selected under an applicable respiratory-protection program. |

09    **PHYSICAL AND CHEMICAL PROPERTIES**

|                              |                                                                                       |
|------------------------------|---------------------------------------------------------------------------------------|
| PHYSICAL STATE               | Liquid                                                                                |
| COLOR                        | Clear/colorless expected for reference aqueous formulation; verify actual lot         |
| ODOR                         | Slight/characteristic or not established; verify actual lot                           |
| PH                           | Reference bacteriostatic-water labeling reports pH 4.5-7.0; verify actual formulation |
| BOILING / FREEZING           | Primarily aqueous; exact values not established for final product                     |
| FLASH POINT                  | Not established for final diluted formulation                                         |
| SOLUBILITY                   | Miscible/aqueous formulation                                                          |
| RELATIVE DENSITY / VISCOSITY | Not established for final product                                                     |

10    **STABILITY AND REACTIVITY**

- Reactivity: No hazardous polymerization or unusual reactivity is established in this reference document.
- Chemical stability: Expected to be stable when stored and handled according to the qualified supplier specification.
- Conditions to avoid: Excessive heat, moisture/light exposure where relevant, contamination, and conditions that promote decomposition.
- Incompatible materials: Strong oxidizing agents and other reactive chemicals should be segregated unless compatibility has been established.
- Hazardous decomposition: Fire or severe thermal decomposition may generate irritating or hazardous fumes.

11    **TOXICOLOGICAL INFORMATION**

- Likely routes of occupational exposure include inhalation of dust/aerosol, ingestion, and skin or eye contact.
- The reference solution contains benzyl alcohol at 0.9% (9 mg/mL). Exact mixture toxicology and classification depend on the actual supplied formulation.
- Substance-specific acute, chronic, reproductive, sensitization, mutagenicity and carcinogenicity data are limited or not established in this reference document.
- Absence of a specific GHS classification in this reference document does not establish that the material is non-hazardous.
- No numerical acute-toxicity estimate is assigned here unless provided by the exact manufacturer/importer SDS.
- No basis is established in this reference document for listing the material as an OSHA, IARC or NTP carcinogen; this does not establish long-term safety.

## 12 ECOLOGICAL INFORMATION

- No reliable product-specific ecotoxicity, persistence, degradability, bioaccumulation or soil-mobility data are established in this reference document.
- Avoid uncontrolled release to drains, surface water or the environment.

## 13 DISPOSAL CONSIDERATIONS

- Dispose of product, contaminated absorbents and contaminated inner packaging through an appropriate chemical-waste stream in accordance with federal, state and local requirements.
- Do not dispose to drains. Empty outer packaging may be recycled only if uncontaminated and permitted locally.

## 14 TRANSPORT INFORMATION

|                     |                                                                                                                                                   |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| DOT                 | Transport classification not assigned in this reference document; verify the exact manufacturer/importer SDS and packaged-product classification. |
| IMDG                | Transport classification not assigned in this reference document; verify the exact manufacturer/importer SDS.                                     |
| IATA                | Transport classification not assigned in this reference document; verify the exact manufacturer/importer SDS.                                     |
| SPECIAL PRECAUTIONS | Protect from moisture/physical damage as applicable and verify carrier requirements for the final packaged product.                               |

## 15 REGULATORY INFORMATION

- This document follows the 16-section heading sequence described by OSHA Hazard Communication Standard 29 CFR 1910.1200 and Appendix D.
- Bacteriostatic Water is described here solely as a research-use material. This SDS does not authorize human or veterinary use.
- Regulatory status can depend on exact chemical identity, formulation, intended use, claims, distribution and jurisdiction; obtain appropriate compliance review before public distribution.
- The exact manufacturer/importer hazard classification and supplier SDS supersede this reference document where differences exist.
- Reference U.S. drug labeling for Bacteriostatic Water for Injection describes a sterile aqueous preparation containing 0.9% benzyl alcohol and is prescription-drug labeling; this reference SDS does not establish that the Fraction Research product is that regulated drug product or is suitable for injection.

## 16 OTHER INFORMATION

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|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PREPARATION DATE     | August 18, 2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| REVISION             | Reference 001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| PRIMARY DATA BASIS   | Production identity must be based on the actual qualified supplier formulation, Certificate of Analysis and Safety Data Sheet. This development TDS intentionally does not infer preservative concentration, sterility, pH, endotoxin level or injection suitability. Composition reference also informed by current DailyMed labeling for bacteriostatic water containing 0.9% benzyl alcohol; actual supplier formulation controls. OSHA 29 CFR 1910.1200 Appendix D used for section structure. |
| IMPORTANT LIMITATION | This SDS is a standardized reference document for development and document-layout use. Before public distribution, reconcile exact chemical form, formulation/excipients, hazard classification, responsible-party contact details, emergency telephone number, storage conditions, transport status and lot/manufacturer specifications to the actual qualified supplier/manufacturer SDS.                                                                                                        |

*All chemicals may present unknown hazards. The user is responsible for establishing handling procedures appropriate to the actual material, concentration, formulation, scale and workplace conditions.*