



50bp plus DNA Ladder RTU

Document Type: Global Master SDS (International Use)

Revision Date: 2026-03-18

Version: 2.0

Supersedes: SDS dated 2022-08-18

1. Identification

Prepared in accordance with:

United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Intended use:

This Global Master SDS is intended for international hazard communication and may be supplemented by country- or region-specific addenda to meet local regulatory requirements.

Product Name: 50bp plus DNA Ladder RTU

Catalog Number: DM017-R500(N)~DM017-B500ML, DM017-R500S(N)

Recommended Use: Laboratory research use only

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2. Hazard(s) Identification

Classification according to GHS: Not classified as a hazardous substance or mixture according to GHS.

Signal word: None.

Hazard pictogram: None.

Hazard statements: None.

Other Hazards: Prolonged or repeated skin contact may cause minor irritation.

3. Composition / Information on Ingredients

Ingredients:

Substance	CAS No.	Concentration
Water	732-18-5	> 75 % (v/v)
Glycerol	56-81-5	10-25 % (v/v)

4. First-Aid Measures

Ingestion: If swallowed, rinse mouth and throat thoroughly with water. Consult a doctor in event of any complaints.

Inhalation: If inhaled, remove victim from area of exposure. If symptoms of irritation or respiratory allergy occur, consult a doctor.





Skin contact: If symptoms of irritation after prolonged exposure occur, consult a doctor.

Eye contact: In case of contact, wash out opened eyes with plenty of water for several minutes. Consult a doctor in event of any complaints.

5. Fire-Fighting Measures

Suitable extinguishing media: Water, dry chemical powder, or appropriate foam.

Unsuitable extinguishing media: None

Specific hazards: May emit nitrogen oxides upon combustion.

Protective equipment: Firefighters should wear self-contained breathing apparatus.

6. Accidental Release Measures

Personal precautions: Remove ignition sources. No smoking.

Environmental precautions: Prevent release into the environment.

Cleanup methods: Wet with water and collect mechanically.

7. Handling and Storage

Handling: Avoid heat, shock, friction, and static discharge.

Storage: Store at -20°C in original packaging. Keep away from combustible materials and oxidizers.

8. Exposure Controls / Personal Protection

Control parameters

Glycerol (Mist): Taiwan PEL-TWA: 10 mg/m³; OSHA PEL: 15 mg/m³ (Total dust).

Individual protection measures

Hand protection: Wear protective Nitrile rubber gloves (complying with EN 374 or equivalent).

Eye protection: Safety glasses with side-shields or chemical goggles (complying with EN 166 or ANSI Z87.1).

9. Physical and Chemical Properties

Appearance: Orange liquid.

pH value (25°C): ~8.0

Melting/Freezing point: < 0°C (approximate)

Boiling point: ~ 100°C.

Flash Point: No flash point detected up to boiling point.

Vapor pressure: ~ 2.3 kPa (at 20°C, similar to water).

Relative density: 1.0 ~ 1.1 g/cm³ (at 20°C).

Solubility: Fully miscible with water.

Viscosity: Low viscosity (aqueous solution).

10. Stability and Reactivity

Stability: Stable under storage conditions (see Section 7).

Conditions to avoid: No conditions which may cause dangerous reactions.

Possibility of hazardous reactions: No dangerous reactions known.





Materials to avoid: Strong oxidizing agents, strong bases.

Hazardous decomposition products: No dangerous decomposition products known.

Hazardous polymerization: Will not occur.

11. Toxicological Information

Routes of exposure:

Inhalation: Inhalation of aerosols may cause allergic type reactions in sensitized individuals.

Ingestion: Repeated ingestion or excessive dosage may be irritating.

Skin and eye contact: Prolonged contact may cause irritation.

Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12. Ecological Information

No data available. The product is not expected to be acutely toxic to aquatic organisms.

13. Disposal Considerations

Dispose of contents and container in accordance with local, regional and national regulations.

14. Transport Information

UN number: Not applicable.

Proper shipping name: Not regulated as dangerous goods.

Transport hazard class: Not applicable.

Packing group: Not applicable.

Environmental hazards: Not a marine pollutant.

15. Regulatory Information

This product is classified and labeled in accordance with the United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

This Safety Data Sheet is intended to serve as a Global Master SDS. Compliance with specific regional or national regulations may require additional information or adaptations.

16. Other Information

Revision history:

Version 4.0

Disclaimer:

The information provided in this Safety Data Sheet is believed to be accurate and represents the best information currently available to BIO-HELIX Co., Ltd. at the time of issue. It is intended solely as guidance for safe handling, use, processing, storage, transportation, disposal and release of the product. It does not constitute a warranty, express or implied.



Safety Data Sheet



BIO-HELIX Co., Ltd. shall not be held liable for any damage resulting from handling or use of this product in a manner inconsistent with this guidance.

