



Safety Data Sheet

BrightBAND 100bp DNA Ladder

1. Identification of the preparation / Substance and of the company

Preparation Name : BrightBAND 1bp DNA Ladder

Catalog Number : BB0511

Use of the preparation : For laboratory use

Company identification : Zepto

2. Composition / Information on ingredients

Ingredients :

Glycerol	10-25% (v/v)	CAS#56-81-5	EC#200-289-5
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Other components :

Components not listed here are not dangerous or their concentrations do not exceed the limits specified in the EU directive 1272/2008/EC.

Additional information : For the wording of the listed risk phrases to section 16.

3. Hazards identification

The preparation is not classified as dangerous according to the Globally Harmonized System(GHS) Classification to Regulation (EC) NO 1272/2008, and is not labelled with danger symbols or indications of danger.

Hazards deriving from physical-chemical properties :

The data available do not support any physical or chemical hazard.

Human health hazards :

Inappropriate handling may cause formation of aerosols. Inhalation of aerosols may cause allergic type reactions in sensitized individuals. Prolonged skin contact may cause minor irritation

Caution : Avoid inhalation, ingestion, and skin contacts.

Environmental hazards : The data available do not support any environmental hazard.

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 : Generally, the product does not irritate the skin. In 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

The preparation cannot cause fire.

Suitable extinguishing agents : Water spray, Carbon Dioxide, dry chemical powder or appropriate foam.

Not suitable extinguishing agents : None

Special exposure hazards from decomposition products : Not thoroughly investigated.

Protective equipment : Wear self-contained breathing apparatus and protective clothing.

6. Accidental release measures

Personal precautions : Wear appropriate gloves (see Section 8), safety glasses to clean small releases/spillage. In case of vapor/aerosol formation, wear suitable respiratory protection means. Ventilate the area.

Environmental precautions : No special measures required.

Methods for cleaning up : Absorb spillages with liquid-binding material. Ventilate and wash the area after the spillage is completely removed.

Additional information : No dangerous substances are released.

7. Handling and storage

Handling : No further requirements.

Use appropriate personal protection measures (see Section 8). Avoid any contact with the liquid. Avoid the formation of aerosols. Ventilate area.

Storage : Store at -20°C. None other specific requirements relating to the preparation.

8. Exposure controls / personal protection

Ingredients with limit values that require monitoring at the workplace :

The product does not contain any relevant quantities of materials with critical values that need to be monitored at the workplace.

General protective and hygienic measures : The usual precautionary measures are the same as for chemicals handling.

Engineering measures : None specific requirements relating to the preparation.

Personal protection :

- Respiratory protection: No special measures required.
- Hand protection: Wear rubber gloves. None special requirements to rubber.
- Eye protection: Safety glasses (goggles) are recommended during ordinary operations with the preparation.
- Skin protection: The usual precautionary measures accepted in research laboratories, e.g. protective clothes (gowns). Not specific requirements.

9. Physical and chemical properties

Appearance : Liquid.

Color : Green.

Odor : Odorless.

pH-value at 25 °C : 8.0.

Boiling point : 100 °C.

Flash point : Not applicable.

Flammability/autoflammability : The preparation is not flammable/self-igniting.

Explosive properties : The preparation does not possess explosive properties.

Oxidizing properties : Not applicable.

Vapor pressure : Not applicable.

Relative density at 20 °C : ~1 g/cm³.

Solubility in/miscibility with water : Fully miscible.

Fat solubility : Not applicable.

Vapor density : Not applicable.

Evaporation rate : Not applicable.

Conductivity : Not applicable.

Viscosity : Not viscous.

10. Stability and reactivity

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

Reactivity : No information available.

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

Possibility of hazardous reactions : No dangerous reactions known.

Incompatible materials : No in particular.

Hazardous decomposition products : No dangerous decomposition products known.

11. Toxicological information

Acute toxicity : Not hazardous.

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

Ingestion : Repeated ingestion or excessive dosage may cause irritation of the gastrointestinal tract.

Skin and eye contact : Generally, the product does not irritate the skin and eyes. Prolonged skin or eye contact may cause minor irritation.

<u>Chemical name</u>	<u>LD50 Oral</u>	<u>LD50 Dermal</u>
<u>Glycerol</u>	<u>12600 mg/kg (Rat)</u>	<u>21900 mg/kg (Rat)</u>

Chronic toxicity : Product dose not present a chronic toxicity hazard based on known or supplied information.

Carcinogenic effects : Product dose not present a carcinogenic effects based on known or supplied information.

Mutagenic effects : Product does not present a mutagenic effects based on known or supplied information.

Reproductive toxicity : Product does not present a reproductive toxicity hazard based on known or supplied information.

Sensitization : Product does not present a sensitization hazard based on known or supplied information. Target organ effects: Product does not present a target organ effects based on known or supplied information.

12. Ecological information

Ecotoxicity : The preparation is considered not dangerous to the environment with respect to mobility, persistence and degradability, bioaccumulation, aquatic toxicity and other data relating to ecotoxicity.

Persistence and degradability : The preparation is readily biodegradable.

Bioaccumulative potential : It is considered that the preparation does not accumulate in biota, and does not pass through the food chain.

Other adverse effects : Not applicable.

13. Disposal considerations

Waste from residues / unused products : Dispose of in accordance with local regulation.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

IMDG : Non-hazardous for sea freight.

ADR : Non-hazardous for road transport.

RID : Non-hazardous for rail transport.

ICAO/IATA : Non-hazardous for air transport.

15. Regulatory information

US

Labelling according to US Regulations : Caution : Avoid contact and inhalation.

US Regulatory information : SARA LISTED : No.

EU

Labelling according to EU Guidelines :The preparation is not dangerous within the meaning of Directives 1272/2008/EC, and is not labelled with danger symbols or indications of danger.

Canada

WHMIS classification :This product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all the information required by the CPR.

DSL : No.

NDSL : No.

16. Other information

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Zepto shall not be held liable for any damage resulting from handling or from contact with the above product.