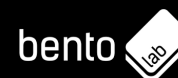


100 bp DNA Ladder

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



1. Identification of the substance and of the company

Product name	DNA Ladder 100 bp
Catalog Number	B101-LADDER-100BP, DL-100BP-200, DL-100BP-500
Supplier Information	Bento Bioworks Ltd 5 Hancock Road London, E3 3DA United Kingdom
Emergency telephone number (CHEMTREC)	Within the USA & Canada: 1-800-424-9300 Outside the USA & Canada: 1-703-741-5970

2. Hazards identification

Classification of the substance or mixture

According to Regulation (EC) No. 1272/2008 (EU-GHS/CLP)

The product contains no substances which are considered to be hazardous to health at their given concentration.

3. Composition / information on ingredients

Hazardous ingredients according to Regulation (EC) No 1272/2008

Not applicable.

4. First aid measures

If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water.
In case of skin contact	Wash off with soap and plenty of water.
In case of eye contact	Flush eyes with water as a precaution.
Notes to physician	Treat symptomatically.

5. Firefighting measures

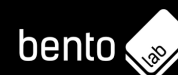
Extinguishing media	Dry chemical, CO ₂ , water spray or alcohol resistant foam.
Special hazards	Not applicable.
Firefighting precautions	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. Accidental release measures

100 bp DNA Ladder

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Personal precautions	Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Use personal protection equipment.
Environmental precautions	Avoid discharge into drains and waterways whenever possible.
Methods for cleaning up	Soak up with inert absorbent material (sand, diatomite, acid binders, universal binders, sawdust).

7. Handling and storage

Precautions for safe handling	No special precautions required.
Conditions for safe storage	No special precautions required. Store at 4°C.
Specific end use(s)	For research and educational use only.

8. Exposure controls/personal protection

Engineering Measures	Not required.
----------------------	---------------

Personal protective equipment

Respiratory Protection	Not required.
Hand Protection	Protective gloves for prolonged contact.
Eye Protection	Protective safety glasses.
Skin and Body Protection	Appropriate protective clothing.
Hygiene Measures	Handle in accordance with good safety practice.

9. Physical and chemical properties

Appearance	Colourless liquid
Odour	Not defined
pH value	7.0-7.5
Boiling point	Undetermined
Melting point	Undetermined
Flash point	Not applicable
Autoignition	Not applicable
Explosion hazard	Not applicable
Vapour pressure	No information available
Relative density	No information available
Water solubility	Soluble in water
Other data	No other data

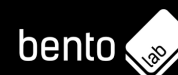
10. Stability and reactivity

Chemical stability	Stable under normal conditions.
--------------------	---------------------------------

100 bp DNA Ladder

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Hazardous reactions	Hazardous reaction has not been reported.
Conditions to avoid	No information available.
Incompatible materials	Strong oxidizing agents, acids and alkali
Hazardous decomposition	No known hazardous decomposition products.

11. Toxicological information

Routes of Exposure

Acute toxicity	No data available
Irritation and corrosion	No data available
Sensitisation	No data available
Chronic exposure	No data available
Exposure Symptoms	No data available

Potential Health Effects

Inhalation	May cause respiratory tract irritation. May be harmful if inhaled.
Skin	May cause skin irritation. May be harmful if absorbed through skin.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

12. Ecological information

Ecotoxicity	Do not allow product to reach ground water, water course or sewage system.
Degradability	Biodegradable
Accumulation	Does not bioaccumulate.
Mobility	No information available.
Further information	No information available.

13. Disposal considerations

Waste treatment methods	Observe all federal, state, and local environmental regulations.
-------------------------	--

14. Transport information

ADR/RID/ICAO/IATA class	This substance is considered to be non-hazardous for transport.
-------------------------	---

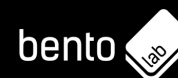
15. Regulatory information

Labelling according to EU guidelines	This product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials.
--------------------------------------	---

100 bp DNA Ladder

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



US Federal Regulations

This product is not subject to regulations under US Toxic Substances Control Act (TSCA), and SARA 302/313/311/312.

16. Other Information

This information is based on available knowledge and shall be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution.

This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Bento Bioworks Ltd is not held liable for any damage resulting from handling or from contact with the above mentioned products.

References

ECHA

<https://echa.europa.eu/>

TOXNET

<https://www.nlm.nih.gov/toxnet/index.html>

eChemPortal

<https://www.echemportal.org/>