Safety data sheet

ClearBand 10x PCR Reaction Buffer (w/o MgCl2)

Product name ClearBand 10x PCR Reaction Buffer (w/o MgCl2)	Catalog no. PB10x
Synonyms -	Source SDS revision -
CAS no. -	Format version / date 3 / 25 October 2026

01 PRODUCT AND COMPANY IDENTIFICATION

Product identifier	ClearBand 10x PCR Reaction Buffer (w/o MgCl2)
Product code	PB10x
CAS number	-
EC number	-
Recommended use	For PCR amplification with compatible DNA polymerases; dilute 10x buffer to 1x in the final reaction. For research use only. Not intended for diagnostic or therapeutic use.
Supplier	EcoTech Biotechnology
Website	www.ecotechbiotech.com
Address	Universite Mah. İpekyolu Cad. Ata Teknokent Sitesi B Blok No: Z10 Yakutiye Erzurum Türkiye
Telephone	0090 544 327 34 97
SDS contact	info@ecotechbiotech.com
Emergency telephone	0090 544 327 34 97
Available	Monday-Saturday/08:00-20:00/GMT+3
Languages	Turkish/English
Outside these hours	Contact: info@ecotechbiotech.com

02 HAZARDS IDENTIFICATION

Classification	Not classified as hazardous according to Regulation (EC) No. 1272/2008 (CLP / GHS).
Label elements	No GHS hazard label elements required.
Symbols / pictograms	None
Signal word	None
Hazard statements	None. No hazard statements assigned.
Precautionary statements - Prevention	Avoid contact with eyes/skin. Do not breathe aerosols. Wear protective gloves, a laboratory coat and eye protection; wash hands after handling.
Precautionary statements - Response	IF IN EYES: Rinse carefully with water. IF ON SKIN: Wash with water. IF SWALLOWED or unwell: Consult a physician. Do not induce vomiting.
Other hazards	Product-specific information on other hazards is not available.

Composition & response

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03 COMPOSITION / INFORMATION ON INGREDIENTS

Product name	ClearBand 10x PCR Reaction Buffer (w/o MgCl2)
Synonyms	-
Concentration	10x solution
Formula	Not applicable (mixture / formulation)
Molecular weight	Not applicable (mixture / formulation)
Mixture statement	Aqueous buffered solution for PCR applications; 10x concentrate without added MgCl2. Exact ionic constituents and concentrations are not available.

04 FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if easy to do; seek medical advice if irritation persists.
Skin contact	Wash affected skin with water and soap. Remove contaminated clothing; consult a physician if irritation develops.
Inhalation	Move to fresh air if mist or aerosol is inhaled. Seek medical advice if breathing discomfort or allergy-like symptoms develop.
Ingestion	Rinse mouth with water. Do not induce vomiting. Seek medical advice if symptoms develop; never give anything by mouth to an unconscious person.
Self-protection of first aider	Use appropriate protective gloves and eye protection; avoid direct contact with spilled solution.
Most important symptoms / effects	No product-specific acute or delayed symptom data are available; irritation or sensitivity cannot be excluded.
Notes to physicians	Treat symptomatically; present product information to medical personnel.

05 FIREFIGHTING MEASURES

Suitable extinguishing media	Use extinguishing media suitable for the surrounding fire: water spray, carbon dioxide, foam or dry chemical.
Unsuitable extinguishing media	No product-specific information available.
Special hazards arising from the substance or mixture	No product-specific thermal decomposition data available. Hazardous gases may form during fires involving packaging and organic constituents.
Explosion data	No product-specific sensitivity or explosion data available.
Advice for firefighters	Firefighters should use self-contained breathing apparatus and appropriate protective clothing when necessary.

Safe use & protection

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06 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Restrict access. Avoid splashes and aerosols; wear suitable gloves, eye protection and laboratory coat. Provide adequate ventilation.
Environmental precautions	Avoid uncontrolled release to drains or waterways. Observe local requirements.
Methods and materials for containment and cleaning up	Absorb small liquid spills with inert material. Transfer to a suitable sealed container, clean the contaminated surface and dispose of waste properly.
Reference to other sections	Refer to Sections 8 and 13 for protective equipment and waste disposal.

07 HANDLING AND STORAGE

Precautions for safe handling	Use standard molecular biology laboratory practice. Avoid aerosol formation, ingestion and direct eye or skin contact. Do not eat or drink during use.
Conditions for safe storage	Store at -20°C in a tightly closed container. Thaw fully and mix gently before use. Minimize freeze-thaw cycles.
Container labeling	5 x 1 mL laboratory reaction buffer, 10x (without MgCl2).

08 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

No product-specific occupational exposure limits are available for the supplied formulation or separate kit components.

8.2 Exposure controls

Engineering measures	Use normal laboratory ventilation. Avoid creating enzyme-containing aerosols or mists.
Hygiene measures	Wash hands after handling. Do not eat, drink or smoke in the laboratory.
Eye / face protection	Use safety spectacles or splash goggles as appropriate (EN 166).
Hand protection	Use suitable protective laboratory gloves and change when contaminated.
Skin and body protection	Wear a buttoned laboratory coat and closed footwear.
Respiratory protection	Normally not required for routine liquid handling with adequate ventilation; use appropriate protection for aerosol-generating tasks.

Material properties

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09 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid (aqueous PCR buffer)
Odor	No data available
Odor threshold	No data available
pH	No data available
Melting point / freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable (liquid); no measured flammability data available
Upper / lower flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility(ies)	No data available
Partition coefficient: n-octanol / water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

10 STABILITY AND REACTIVITY

Reactivity	No product-specific reactivity data available.
Chemical stability	Store under the recommended conditions (-20°C). Product performance may deteriorate following repeated freeze-thaw cycles.
Possibility of hazardous reactions	No product-specific hazardous reaction data available.
Conditions to avoid	Excessive heat, improper storage temperatures, prolonged ambient exposure and repeated freeze-thaw cycles.
Incompatible materials	Strong oxidizing agents and other materials incompatible with biological reagents; detailed compatibility data are not available.
Hazardous decomposition products	No data available.

Health & environment

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11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	No acute toxicity data available for the final formulation.
Skin corrosion / irritation	No product-specific skin irritation or corrosion data available.
Serious eye damage / eye irritation	No product-specific serious eye damage or irritation data available.
Carcinogenicity	No product-specific carcinogenicity data available.
Reproductive toxicity	No product-specific reproductive toxicity data available.
STOT - SE	No product-specific STOT single-exposure data available.
STOT - RE	No product-specific STOT repeated-exposure data available.
Aspiration hazard	No product-specific aspiration hazard data available.

11.2 Potential health effects

Ingestion: No product-specific data available.
Inhalation: Avoid mist and aerosols; protein sensitivity is possible for susceptible individuals.
Skin: No product-specific data available.
Eyes: No product-specific data available.

11.3 Additional information

No additional product-specific toxicological information is available.

12 ECOLOGICAL INFORMATION

Ecotoxicity	No product-specific aquatic toxicity data available; avoid release to the environment.
Persistence and degradability	No data available.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Results of PBT and vPvB assessment	No product-specific PBT or vPvB assessment data available.

13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	Collect unused reagent and contaminated material according to institutional procedures and applicable local regulations. Do not discharge concentrated reagents into drains without approval.
Contaminated packaging	Discard empty vials and contaminated packaging in accordance with applicable laboratory waste regulations; do not reuse.

Transport & reference

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14 TRANSPORT INFORMATION

Mode	UN no.	UN proper shipping name	Hazard class	Packing group	Environmental hazards
ADR/RID	-	Not regulated as dangerous goods	-	-	No
IMDG	-	Not regulated as dangerous goods	-	-	No
IATA	-	Not regulated as dangerous goods	-	-	No

15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation	Not classified as hazardous according to Regulation (EC) No. 1272/2008 (CLP). Regulation (EC) No. 1907/2006 (REACH) and applicable national regulations remain applicable.
Environmental hazards	Not classified as hazardous to the aquatic environment under CLP.
Chemical safety assessment	No formulation-specific chemical safety assessment information available.

16 OTHER INFORMATION

Key to abbreviations and acronyms

STOT-SE	Specific Target Organ Toxicity - Single Exposure
STOT-RE	Specific Target Organ Toxicity - Repeated Exposure
PBT	Persistent Bioaccumulative and Toxic
vPvB	very Persistent very Bioaccumulative and toxic
ADR	European Agreement concerning the international carriage of Dangerous goods by Road
CAS	Chemical Abstracts Service
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime code for Dangerous Goods
REACH	Registration, Evaluation, Authorization and restriction of Chemicals
RID	Regulations concerning the International transport of Dangerous goods by rail