Safety data sheet

ClearPAGE Tris-Glycine PreCast Gel, 4–20%, 10 wells

Product name ClearPAGE Tris-Glycine PreCast Gel, 4–20%, 10 wells	Catalog no. PCG42010
Synonyms Polymerized 4–20% gradient polyacrylamide gel	Revision date -
CAS no. -	Document version / date 3.0 / 26 October 2026

01 PRODUCT AND COMPANY IDENTIFICATION

Product identifier	ClearPAGE Tris-Glycine PreCast Gel, 4–20%, 10 wells
Product code	PCG42010
CAS number	-
EC number	-
Recommended use	Ready-to-use 4–20% gradient gel for protein electrophoresis (native or denaturing protocols). For research use only.
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 for the supplied polymerized gel, subject to confirmation of residual acrylamide and additives.
Label elements	No GHS hazard pictograms or signal word assigned for the provisional classification.
Symbols / pictograms	None required for the provisional classification.
Signal word	None
Hazard statements	None assigned to the finished gel.
Precautionary statements - Prevention	Avoid direct contact with gel and storage liquid. Wear protective gloves and safety glasses; wash hands after use.
Precautionary statements - Response	Rinse skin or eyes with water; seek medical advice if irritation persists.
Other hazards	Residual unpolymerized acrylamide content is not established. Damaged plastic cassettes can have sharp edges.

Composition & response

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03 COMPOSITION / INFORMATION ON INGREDIENTS

Product name	ClearPAGE Tris-Glycine PreCast Gel, 4–20%, 10 wells
Synonyms	Crosslinked polyacrylamide gradient gel, 4–20%
Concentration	4–20% acrylamide gradient (polymerized gel)
Formula	-
Molecular weight	-
Product form	Hydrated crosslinked gel in a mini cassette (10 wells)
Composition / ingredient information	Polymerized acrylamide/bisacrylamide matrix (29:1 formulation ratio) in aqueous Tris–glycine system. Does not contain sodium dodecyl sulfate. Exact constituent and free-monomer percentages are not available.

04 FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact	Rinse cautiously with clean water for at least 15 minutes; remove contact lenses if possible. Seek medical advice if symptoms persist.
Skin contact	Remove gel material and rinse thoroughly with soap and water. Remove contaminated clothing; obtain medical advice for persistent irritation.
Inhalation	Not expected during normal handling of a hydrated gel. If exposed to aerosols from liquid, move to fresh air and seek advice if symptomatic.
Ingestion	Rinse mouth; do not induce vomiting. Seek medical advice if swallowed. Never give anything by mouth to an unconscious person.
Self-protection of first aider	Wear gloves and eye protection; avoid contact with gel and storage fluid.
Most important symptoms / effects	Possible transient skin or eye irritation; mixture-specific health data are not available.
Immediate medical attention / treatment	Treat symptomatically; show the product label or this SDS to the physician.

05 FIREFIGHTING MEASURES

Suitable extinguishing media	Water spray, dry chemical, carbon dioxide or foam appropriate to the surrounding fire.
Unsuitable extinguishing media	No product-specific restriction established.
Special hazards arising from the substance or mixture	Thermal decomposition of polymer and cassette may produce irritating fumes and carbon/nitrogen oxides.
Explosion data	Hydrated gel is not expected to present an explosion hazard in normal handling.
Advice for firefighters	Use appropriate protective clothing and self-contained breathing apparatus in a significant fire.

Safe use & protection

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06 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Wear gloves and eye protection. Protect hands from sharp edges if the cassette is broken.
Environmental precautions	Avoid release of gel fragments and storage liquid into drains and waterways.
Methods and materials for containment and cleaning up	Collect gel fragments mechanically; absorb released storage liquid using inert absorbent. Place material in suitable labelled waste container.
Reference to other sections	See Sections 8 and 13.

07 HANDLING AND STORAGE

Precautions for safe handling	Open cassette carefully. Avoid direct contact with gel and storage liquid; use gloves, safety glasses and normal laboratory hygiene.
Conditions for safe storage	Store at 4°C (refrigerated) in unopened packaging. Do not freeze. Product stated shelf life: 1 year at 4°C.
Container labeling	Retain product code and lot identification; protect the sealed pouch from damage and drying.

08 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

No mixture-specific occupational exposure limits identified.

8.2 Exposure controls

Engineering measures	General laboratory ventilation and accessible eyewash facilities.
Hygiene measures	Do not eat, drink or smoke while using; wash hands and decontaminate work areas after handling.
Eye / face protection	Safety glasses with side protection (EN 166) or suitable laboratory goggles.
Hand protection	Wear suitable disposable protective gloves; inspect and change if damaged.
Skin and body protection	Laboratory coat, suitable work clothes and enclosed shoes.
Respiratory protection	Not ordinarily required for intact hydrated gel under adequate ventilation.

Material properties

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09 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Transparent to translucent hydrated polymerized gel in a plastic mini cassette.
Odor	No characteristic odor reported.
Odor threshold	No data available
pH	No product-specific data available
Melting point / freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	Not applicable to the hydrated gel as supplied.
Evaporation rate	No data available
Flammability (solid, gas)	No product-specific data available
Upper / lower flammability or explosive limits	Not applicable to the hydrated gel as supplied.
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility(ies)	Polymerized gel matrix is insoluble in water.
Partition coefficient: n-octanol / water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	Not applicable to a solid gel matrix.
Explosive properties	Not expected to be explosive under ordinary handling.
Oxidizing properties	Not expected to be oxidizing.

10 STABILITY AND REACTIVITY

Reactivity	No hazardous reaction anticipated under recommended use.
Chemical stability	Stable when stored refrigerated at 4°C and protected from freezing and drying.
Possibility of hazardous reactions	No dangerous polymerization expected for the polymerized gel.
Conditions to avoid	Freezing, high temperatures, prolonged sunlight, drying and damaged packaging.
Incompatible materials	Strong oxidizing agents; other product-specific incompatibilities not established.
Hazardous decomposition products	On combustion, irritating organic decomposition products and carbon/nitrogen oxides may form.

Health & environment

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11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	No whole-mixture toxicity data available; not classified on current available information.
Skin corrosion / irritation	May cause mechanical or mild skin irritation in susceptible persons; no product-specific test data.
Serious eye damage / eye irritation	Direct contact with gel or storage solution may irritate eyes; no product-specific test data.
Carcinogenicity	Finished gel not tested. Residual free acrylamide concentration not available for assessment.
Reproductive toxicity	No finished-product data. Residual free acrylamide, if present, requires assessment.
STOT - SE	No product-specific data available
STOT - RE	No product-specific data available
Aspiration hazard	Not expected for a solid gel; no product-specific test data.

11.2 Potential health effects

Ingestion: No product-specific effects established; rinse mouth if swallowed.
Inhalation: Not expected for intact hydrated gel under normal use.
Skin: Prolonged exposure to gel or storage liquid may cause irritation.
Eyes: Direct contact may cause irritation; rinse promptly.

11.3 Additional information

Risk assessment must address residual unpolymerized acrylamide and any additives in the finished gel.

12 ECOLOGICAL INFORMATION

Ecotoxicity	No product-specific ecological toxicity data available. Avoid uncontrolled environmental release.
Persistence and degradability	Polymer matrix biodegradability not established for the finished product.
Bioaccumulative potential	No product-specific data available
Mobility in soil	Gel matrix has limited mobility; storage liquid may migrate if spilled.
Results of PBT and vPvB assessment	No product-specific PBT/vPvB assessment available.

13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	Place spent gels and gel cassettes in designated laboratory solid waste; dispose according to local rules and sample contamination status. Do not dispose gel into drains.
Contaminated packaging	Dispose of damaged or contaminated cassettes and pouches according to local laboratory waste procedures.

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

Special precautions for user	Secure packaging against breakage, freezing and leakage; keep refrigerated during product distribution. *Transport status requires confirmation against the final formulation.
Transport in bulk (MARPOL / IBC)	Not applicable.

15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation	Regulation (EC) No. 1907/2006 (REACH) and No. 1272/2008 (CLP) apply as relevant. Product-specific classification requires verification of residual monomer/additives.
Environmental hazards	See Section 12; no product-specific aquatic classification established.
Chemical Safety Assessment	No chemical safety assessment of the supplied PCG42010 product is 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 and Very Bioaccumulative
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 Dangerous Goods Code
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail