Safety data sheet

Proteinase K

Product name Proteinase K (solution)	Catalog no. EZPK1, EZPK5
Synonyms -	Revision date 28 January 2025
CAS no. -	Format version / date 1.0 / 24 October 2026

01 PRODUCT AND COMPANY IDENTIFICATION

Product identifier	Proteinase K
Product code	EZPK1, EZPK5
CAS number	-
EC number	-
Recommended use	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	Respiratory sensitization, Category 1 (H334), according to Regulation (EC) No. 1272/2008 (CLP).
Label elements	GHS labeling under Regulation (EC) No. 1272/2008 (CLP).
Symbols / pictograms	
Signal word	Warning
Hazard statements	H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Precautionary statements - Prevention	P261 – Avoid breathing dust/fume/gas/mist/vapors/spray. P284 – Wear respiratory protection.
Precautionary statements - Response	If inhaled, remove the person to fresh air. If respiratory symptoms occur, call a physician or poison center.
Other hazards	Possible respiratory sensitizer. No PBT/vPvB components at 0.1% or higher.

Composition & response

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03 COMPOSITION / INFORMATION ON INGREDIENTS

Product name	Proteinase K
Synonyms	-
Concentration	20 mg/mL
Formula	-
Molecular weight	-
Mixture statement	Proteinase, Tritirachium album (CAS 39450-01-6): 1–5% (Skin Irrit. 2, H315; Eye Irrit. 2, H319; Resp. Sens. 1, H334). Glycerin (CAS 56-81-5): 40–60%, not classified.

04 FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact	Immediately flush with water for at least 15 minutes. Seek medical advice if irritation persists.
Skin contact	Rinse skin thoroughly with water.
Inhalation	Move to fresh air. If respiratory symptoms occur, call a doctor or poison center.
Ingestion	Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical advice if symptoms persist.
Self-protection of first aider	Use appropriate personal protective equipment.
Most important symptoms / effects	May cause allergic or asthma-like symptoms or breathing difficulty if inhaled.
Immediate medical attention / treatment	Treat symptomatically. Seek medical attention for respiratory symptoms.

05 FIREFIGHTING MEASURES

Suitable extinguishing media	Use extinguishing measures appropriate to the surrounding fire.
Unsuitable extinguishing media	No data available.
Special hazards arising from the substance or mixture	No information available.
Explosion data	No data available.
Advice for firefighters	Wear self-contained breathing apparatus if necessary. Prevent firefighting runoff from reaching water bodies.

Safe use & protection

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06 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Ensure ventilation. Wear protective equipment and avoid inhalation of aerosols or mists.
Environmental precautions	Do not allow product to enter drains. Notify local authorities if a significant spill cannot be contained.
Methods and materials for containment and cleaning up	Absorb liquid with suitable material and collect into closed disposal containers.
Reference to other sections	See sections 8 and 13.

07 HANDLING AND STORAGE

Precautions for safe handling	Work in a ventilated area or under a hood. Avoid aerosol inhalation and skin or eye contact.
Conditions for safe storage	Keep tightly closed. Protect from light and follow storage instructions on product labeling.
Container labeling	Keep containers properly labeled.

08 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Contains no substances with established occupational exposure limits.

8.2 Exposure controls

Engineering measures	Provide adequate ventilation, especially in confined spaces.
Hygiene measures	Remove contaminated clothing. Wash hands after working with the substance.
Eye / face protection	Wear safety glasses with side shields (EN 166).
Hand protection	Wear suitable protective gloves.
Skin and body protection	Wear a laboratory coat or suitable protective clothing.
Respiratory protection	Wear suitable respiratory protection if ventilation is insufficient or aerosols may form.

Material properties

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09 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid
Odor	No data available
Odor threshold	No data available
pH	7.5
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)	No 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	None.

10 STABILITY AND REACTIVITY

Reactivity	No data available
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	No data available
Conditions to avoid	No data available
Incompatible materials	No dangerous reaction known under normal conditions of use.
Hazardous decomposition products	No data available

Health & environment

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11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	Glycerin: LD50 oral (rat) 12,600 mg/kg; LD50 dermal (rabbit) >10 g/kg; inhalation >570 mg/m³ (rat). Proteinase: No data available.
Skin corrosion / irritation	Not classified based on available mixture data.
Serious eye damage / eye irritation	Not classified based on available mixture data.
Carcinogenicity	Not classified based on available information.
Reproductive toxicity	Not classified based on available information.
STOT - SE	Not classified based on available information.
STOT - RE	Not classified based on available information.
Aspiration hazard	No aspiration hazard classification; may cause respiratory sensitization if inhaled.

11.2 Potential health effects

Ingestion: May be harmful if swallowed.
Inhalation: May cause respiratory sensitization (H334).
Skin: May be harmful on contact.
Eyes: May cause irritation.

11.3 Additional information

Respiratory sensitization is possible; exposure may cause asthma-like symptoms.

12 ECOLOGICAL INFORMATION

Ecotoxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	No components identified as PBT or vPvB at concentrations of 0.1% or higher.

13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	Dispose of in accordance with applicable local regulations. Discharge to wastewater only where expressly permitted.
Contaminated packaging	Take empty containers to an approved waste handler for recycling or disposal. Do not reuse empty containers.

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 for transport.	-	-	No transport environmental hazard indicated.
IMDG	-	Not regulated for transport.	-	-	No transport environmental hazard indicated.
IATA	-	Not regulated for transport.	-	-	No transport environmental hazard indicated.

Special precautions for user	No data available.
Transport in bulk (MARPOL / IBC)	Not applicable.

15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation	Safety data sheet format under Regulation (EC) No. 1907/2006 (REACH).
Environmental hazards	No data available.
Chemical Safety Assessment	A chemical safety assessment has not been carried out.

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