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Safety Data Sheet (SDS)

Revision Date:
28 JAN 2025

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name: Proteinase K
Product Code: EZPK1, EZPK5
CAS Number: -
EC Number: -

1.2 Details of the supplier of the safety data sheet

Company: EcoTech Biotechnology
Address: Universite Mah. Cat Yolu Cad. Ata Teknokent Sitesi B Blok No: 74/113 Yakutiye Erzurum
Turkiye
Telephone: 0090 544 327 34 97
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1.3 Product use

For research use only

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008.[EU-GHS/CLP]
Respiratory sensitization (Category 1), H334

2.2 Label elements

Labeling according Regulation (EC) No 1272/2008 [EC]

Pictogram:



Signal word : Warning

Hazard statement(s)

H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statement(s)

P261 : Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P284 : Wear respiratory protection.

Supplemental Hazard

Statement(s) : None

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Possible sensitizer.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Product Name

Proteinase K

Synonyms: -

Concentration: 20mg/ml
Formula: -
Molecular Weight: -

Component	CAS-No.	Classification	Concentration
Proteinase, Tritirachium album	39450-01-6	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334	1-5 %
Glycerin	56-81-5	Not classified	40-60 %

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled: Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.

If swallowed: Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

In case of skin contact: If on skin, rinse well with water.

In case of eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation occurs.

4.2 Most important symptoms and effects, both acute and delayed

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

4.3 Indication of any immediate medical attention and special treatment needed

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

No information available.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Ensure adequate ventilation.

Use personal protective equipment. Avoid formation of dust. Avoid breathing vapours, mist or gas.

For personal protection see section 8.

6.2 Environmental precautions

Local authorities should be advised if significant spillages cannot be contained. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect bind, and pump off spills. Keep in suitable, closed containers for disposal. Avoid generation of dusts.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Advice on safe handling

Work under hood. Do not inhale substance.

7.2 Precautions for safe handling

For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.

7.3 Conditions for safe storage, including any incompatibilities

Keep tightly closed. Protect from light.

See label, package insert or internal guidelines.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Ingredients with workplace control parameters.

8.2 Exposure controls

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Hygiene measures

Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.

Personal protective equipment

Eye/face protection: Wear safety glasses with side-shields conforming to European Standard EN166.

Hand protection: Wear protective gloves.

Skin and body protection: Wear laboratory coat or impervious clothing.

Respiratory protection: In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

a) Appearance:	Liquid
b) Odor:	No data available
c) Odor Threshold:	No data available
d) pH:	7.5
e) Melting point/freezing point:	No data available
f) Initial boiling point and boiling range:	No data available
g) Flash point:	No data available
h) Evaporation rate:	No data available
i) Flammability (solid, gas):	No data available
j) Upper / lower flammability or explosive limits:	No data available
k) Vapor pressure:	No data available
l) Vapor density:	No data available
m) Relative density:	No data available
n) Solubility(ies):	No data available
o) Partition coefficient: <i>n</i> -octanol / water:	No data available
p) Auto-ignition temperature:	No data available
q) Decomposition temperature:	No data available
r) Viscosity:	No data available
s) Explosive properties:	No data available
t) Oxidizing properties:	None

SECTION 10. STABILITY AND REACTIVITY

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 conditions of normal use.
Hazardous decomposition products: No data available

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

a) Acute toxicity:

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Glycerin	12600 mg/kg (Rat)	>10g/kg (Rabbit)	>570 mg/m ³ (Rat)
Proteinase, Tritirachium album	No data available	No data available	No data available

b) Skin corrosion / irritation: Not classified based on available information.
c) Serious eye damage/eye irritation: Not classified based on available information.
d) Carcinogenicity: Not classified based on available information.
e) Reproductive toxicity: Not classified based on available information.
f) STOT - SE: Not classified based on available information.
g) STOT - RE: Not classified based on available information.
h) Aspiration hazard: May cause sensitisation by inhalation

11.2 Potential health effects

Ingestion: May be harmful if swallowed.
Inhalation: May be harmful if inhaled.
Skin: May be harmful if absorbed through skin.
Eyes: May be harmful if in contact with eyes.

11.3 Additional Information

No additional information is available

SECTION 12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product

Can be disposed as waste water, when in compliance with local regulations.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

Section 14. TRANSPORT INFORMATION

14.1 UN number

ADR/RID: -

IMDG: -

IATA: -

14.2 UN proper shipping name

ADR/RID: Not regulated in the meaning of transport regulations

IMDG: Not regulated in the meaning of transport regulations

IATA: Not regulated in the meaning of transport regulations

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: No IMDG: No IATA: No

14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION**15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture**

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

SECTION 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