

MATERIAL SAFETY DATA SHEET

According to EC Directive 1907/2006
Revision Date: 01.08.13 MS-50175 V03



1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Trade Name : Proteinase K Solution

Catalogue Number : BIO-37084 5 ml
BIO-37085 5 x 5 ml

Gentaur Molecular Products
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1910 Kampenhout, BELGIUM

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2. HAZARD IDENTIFICATION

Product name
Proteinase K

Directive 1999/45/EC
HARMFUL



R36/37/38 – Irritating to eyes, respiratory system and skin.
R42 – May cause sensitization by inhalation

GHS Directive 1272/2008/EC
WARNING
DANGER



H315 – Skin Irrit.2
H319 – Eye Irritant. 2
H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 – May cause respiratory irritation.

According to Regulation (EC) No1272/2008
Skin Irritant (Category 2)
Eye Irritant (Category 2)

According to European Directive 67/548/EEC as amended.
Xn – Harmful. May cause sensitisation by inhalation and skin contact.

Label elements

Pictogram



Signal word

Warning
Danger

Hazard statement(s)

H315
H319
H334

Causes skin irritation
Causes serious eye irritation
May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause respiratory irritation

H335

Precautionary statement(s)

P261
P305+351+338

Avoid breathing dust
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

P342+311

Hazard symbol(s)

Xn

Harmful

R-phrases(s)

R36/37/38
R42

Irritating to eyes, respiratory system and skin.
May cause sensitization by inhalation

S-phrases(s)

S22-26-36/37

Do not breathe dust. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and gloves

Other hazards

none

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixture of hazardous substances listed below with non-hazardous additions.

Chemical name	CAS-No.	EC-No.	Concentration	Classification
Proteinase K	39450-01-6	254-457-8	N/A	H315; H319; H334; H335 R36/37/38; R42

4. FIRST AID MEASURES

After Inhalation

Remove to fresh air. Keep airways free.

After Swallowing

Rinse mouth with water. Never give anything by mouth to an unconscious person. Consult a physician immediately.

After Contact with Eyes

Rinse eyes with running water with eyelids open for at least 15 minutes. Tilt the head to prevent chemical transferring to uncontaminated eye.

After Contact with Skin

Remove contaminated clothing. Rinse the affected skin or mucous membrane thoroughly under running water. Use soap if possible.

Note to Physician

No additional recommendations

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

All extinguishers can be used, including fire blankets.

Unusual Fire Hazard

Formation of hazardous and caustic vapour-air mixtures possible. Only when there is a large scale leak is there danger to the environment, or on the formation of hazardous substances.

Fire Fighting Protective Measures

Wear full protective clothing to prevent contact with the skin and eyes.

Wear self-contained breathing equipment to prevent inhalation of explosive or combustion gases.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Ensure ventilation is adequate. Only to be used by trained staff.
Refer to section 8 for personal protection equipment recommendations.
Wear suitable eye protection and a dust mask. Avoid dust formation.

Environmental Precautions

Do not allow to enter sewers.

Clean-up Measures

Prevent the spread of any spill in order to minimise harm to human health and the environment if it is safe to do so. Use a liquid-binding material (e.g. sand, sawdust, diatomite etc.) to absorb the spillage. Place in closed containers for disposal. Ventilate area well after clean-up procedures have taken place.

7. HANDLING AND STORAGE

Handling

In accordance with the instructions that come with the product. Use good laboratory handling procedures.

Storage

Packaging allows safe storage. Refer to section 12 for further details.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures

Local exhaust ventilation or other engineering controls are normally required when handling this product to avoid overexposure.

Ingredients with Limit Values

Contains no substances with occupational exposure limit values.

Personal Protection

Respiratory Protection: Only if additional recommendations in test instruction or packing insert.

Eye Protection: An eye wash station must be available where this product is used. Wear chemically resistant, tightly fitting safety goggles or glasses with side-shields, according to EN 166.

Skin Protection: Prevent all contact with this product. Protective gloves, apron, face and further skin protection should be used depending on conditions of use, according to EN 374. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment thoroughly after each use.

Hygiene Practices: Avoid contact with skin or eyes. Do not place in mouth. Do not eat, drink or smoke when handling this product. Upon completion of the use of this product, dispose of protective gloves safely and wash hands thoroughly with soap and water.

9. PHYSICAL AND CHEMICAL PROPERTIES

	Colour	Odour	Appearance	pH	Flash point	Boiling point	Sol. In water	Specific Gravity
Proteinase K	White	-	Powder	-	-	-	-	-

10. STABILITY AND REACTIVITY

Stability

Avoid excess heat, flame and pressure. Avoid strong oxidising agents. Product may deteriorate if in direct sunlight or humidity.

Reactivity

Can form reactive substances with oxidizing agents.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

No data available

May cause respiratory irritation.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Data on other components is either not available or not required.

12.ECOLOGICAL INFORMATION

No data available

13.DISPOSAL CONSIDERATIONS

Product Disposal

Must be disposed of according to all local official regulations.

Packaging Disposal

Unclean packaging should be disposed of according to all local official regulations.

14.TRANSPORT INFORMATION

ADR/RID/IMDG/IATA – Not dangerous goods.

15.REGULATORY INFORMATION

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

Label elements

Pictogram



Signal word

Warning
Danger

Hazard statement(s)

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Hazard symbol(s)

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S-phrases(s)

S22-26-36/37

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Other hazards

none

16. OTHER INFORMATION

The information provided in this Material Safety Data Sheet (MSDS) is accurate to the best of our present knowledge. However, this shall not constitute a guarantee for any specific product features. All substances and preparations may present unknown hazards and should be used with caution. Bioline shall not be held liable for any damage resulting from the handling of or from contact with the above product. The information supplied in this MSDS shall not establish a legally valid contractual relationship.

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