

Safety data sheet

according to 1907/2006/EC, Article 31

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Version 1



1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

- Trade name: Proteinase K – Lyophilized powder, NGS Grade
- Article number: RP100N, RP101N, RP102N, RP103N
- CAS number: 39450-01-6
- EC number: 254-457-8

1.2 Relevant identified uses of the substance or mixture and uses advised against: *no data available*

- Application of the substance / the preparation: *biochemistry*

1.3 Details of the supplier of the safety data sheet

- Manufacturer/supplier:

BLIRT S.A.

Trzy Lipy 3/1.38

80-172, Gdansk

Poland

orders@blirt.eu

Tel. +48 58 739 61 50

1.4 Emergency telephone number:

+48 58 739 61 50 (Inside normal business hours)

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2. Hazards identification

2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008



GHS08

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

2.2 Label elements

– Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

– Hazard pictograms



– Signal word: *Danger*

– Hazard-determining components of labeling: *Proteinase, Tritirachium album serine*

– Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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

H335 May cause respiratory irritation.

– Precautionary statement(s):

Prevention:

P261 Avoid breathing dust/fumes/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+313 If eye irritation persists get medical advice/attention

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/ doctor if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P332+313 P362 If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing.

2.3 Other hazards

Not applicable.

3 Composition/information on ingredients

3.1 Chemical characterization: *Substances*

– CAS No. Description: *39450-01-6 Proteinase, Tritirachium album serine*

– EC number: *254-457-8*

4 First aid measures

4.1 Description of first aid measures

- **After inhalation:** *Supply fresh air or oxygen; call for doctor.*
- **After skin contact:** *Immediately wash with plenty of water. Seek medical treatment.*
- **After eye contact:** *Rinse opened eye for several minutes under running water. Then consult a doctor.*
- **After swallowing:** *make victim drink water (maximum of 2 drinking glasses). Do not induce vomiting; call for medical help immediately.*

4.2 Most important symptoms and effects, both acute and delayed:

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

5 Firefighting measures

5.1 Extinguishing media

- **Suitable extinguishing agents:** *Water spray, CO₂ or powder. Fight larger fires with water spray or alcohol resistant foam.*

5.2 Special hazards arising from the substance or mixture

- **Combustible**

5.3 Advise for firefighters

- **Protective equipment:** *Wear self-contained respiratory protective device.*

Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: *Avoid formation of dust. Do not inhale dust. Avoid substance contact. Ensure adequate ventilation.*

6.2 Environmental precautions: *Do not allow to enter sewers/surface or ground water.*

6.3 Methods and material for containment and cleaning up: *Pick up mechanically. Avoid generation of dusts. Ensure adequate ventilation. Dispose contaminated material as waste according to item 13. Clean up affected area.*

6.4 Reference to other sections

See section 7 for information on safe handling.

See section 8 for information on personal equipment.

See section 13 for disposal information.

7 Handling and storage

7.1 Precautions for safe handling: *Ensure good ventilation/exhaustion at the workplace. Prevent formation of dust. Any unavoidable deposit of dust must be regularly removed.*

7.2 Conditions for safe storage, including any incompatibilities

- **Requirements to be met by storerooms and receptacles:** *No special requirements.*
- **Information about storage in one common storage facility:** *Not required.*
- **Further information about storage conditions:** *Keep container tightly sealed.*
- **Recommended storage temperature:** **-20°C**
- **Storage class:** *10-13*

7.3 Specific end use(s): *No further relevant information available.*

8 Exposure controls/personal protection

8.1 Control parameters

- **Ingredients with limit values that require monitoring at the workplace:** *Not required.*
- **Additional information:** *The lists valid during the making were used as basis.*

8.2 Exposure controls

- **Personal protective equipment:**
 - **General protective and hygienic measures:** *Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Vacuum clean contaminated clothing. Do not blow or brush off contamination. Avoid contact with the eyes and skin.*
 - **Respiratory protection:** *In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Filter P2.*
 - **Protection of hands:**
 - Protective gloves – *the glove material has to be impermeable and resistant to the product/the substance/the preparation.*
 - *Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation:*
 - **Material of gloves:** *the selection of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.*
 - **Penetration time of glove material:** *The exact break through time has to be observed.*
 - **For the permanent contact gloves made of the following materials are suitable:** *Nitrile rubber, NBR. Recommended thickness of the material $\geq 0,11$ mm. Value for the permeation: Level ≥ 480 min.*
 - **Eye protection:** *Safety glasses.*
 - **Body protection:** *Protective work clothing. Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.*

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

– Appearance:

Form: *Powder*

Color: *White*

– pH-value at 20°C: *6.2-6.8*

– Odour: *Odourless.*

– Change in condition:

• Melting point/ melting range: *Undetermined*

• Boiling point/ boiling range: *Undetermined*

– Flash point: *Not applicable.*

– Flammability (solid, gaseous): *Product is not flammable.*

– Danger of explosion: *Product does not present an explosion hazard.*

– Density: *Not determined.*

– Solubility in/ Miscibility with:

• Water: *Soluble.*

9.2 Other information: *No further relevant information available.*

10 Stability and reactivity

10.1 Reactivity: *No data available.*

10.2 Chemical stability: *No data available.*

Thermal decomposition/conditions to be avoided: *Light/strong heating.*

10.3 Possibility of hazardous reaction: *No dangerous reactions known.*

10.4 Conditions to avoid: *No further relevant information available.*

10.5 Incompatible materials: *No further relevant information available.*

10.6 Hazardous decomposition product: *See chapter 5.*

Additional information: *Dust explosion possible. Sensitive to air, light sensitive.*

11 Toxicological information

11.1 Information on toxicological effects

– LD/LC50 values relevant for classification: *not available*

– Primary irritant effect:

• On the skin: *Irritant to skin and mucous membranes.*

• On the eye: *Irritant effect.*

– Sensitization: *Sensitization possible through inhalation.*

12 Ecological information

12.1 Toxicity: *No data available.*

12.2 Persistence and degradability: *No further relevant information available.*

12.3 Bioaccumulative potential: *No further relevant information available.*

12.4 Mobility in soil: *No further relevant information available.*

12.5 Results of PBT and vPvB: *Not applicable.*

12.6 Other adverse effects: *No further relevant information available.*

General notes: *Generally not hazardous for water.*

13 Disposal considerations

13.1 Waste treatment methods

– **Recommendation:** *Must not be disposed together with household garbage. Do not allow product to reach sewage system.*

– **Uncleaned packaging (Recommendation):** *Disposal must be made according to official regulations. Packagings that may not be cleansed are to be disposed of in the same manner as the product.*

14 Transport information

14.1 UN-Number:

- **ADR, ADN, IMDG, IATA:** *not dangerous goods/not applicable*

14.2 UN proper shipping name:

- **ADR, ADN, IMDG, IATA:** *not dangerous goods/not applicable*

14.3 Transport hazard class(es):

- **ADR, ADN, IMDG, IATA** *not dangerous goods/not applicable*
- **Clasa:** *not dangerous goods/not applicable*

14.4 Packing group:

- **ADR, IMDG, IATA:** *not dangerous goods/not applicable*

14.5 Environmental hazards:

- **Marine pollutant:** *No*

14.6 Special precautions for users: *not applicable*

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: *not applicable*

– **Transport/additional information:** *not dangerous according to the above specifications.*

– **UN „Model Regulation“:** *not applicable*

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: *not applicable*

15.2 Chemical safety assessment: *A Chemical Safety Assessment has not been carried out.*

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship