

Trade name: Aqua Screen Proteinase K

Reviewed on: 08.10.2009

1. Identification of the substance/preparation and company

Trade name: Aqua Screen Proteinase K**Manufacturer/Supplier:** Minerva Biolabs GmbH, Landhausring 7, 12683 Berlin
Telephone: +49 / 30 – 2000 4370, Telefax: +49 / 30 – 2000 4379**Information department:** Minerva Biolabs Technical Service, Landhausring 7, 12683 Berlin
Telephone: +49 / 30 – 2000 4370, Telefax: +49 / 30 – 2000 4379**Poison emergency information:** +49 / 30 – 2000 4370

2. Composition/information on ingredients

Chemical characterization : Liquid (Proprietary Compound Mixture)**Hazardous components**

(Full text of each relevant R phrase can be found in heading 16)

CAS No.	Components	Value
39450-01-6	proteinase, Tritirachium album serine	-

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

3. Hazards identification

Hazard description: Harmful.**Information pertaining to particular danger for man and environment:**

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

Classification system: The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.**NFPA ratings (scale 0 – 4)**

Health = 1

Fire = 0

Reactivity = 0

WHMIS-ratings (scale 0 – 4)

Health = 1

Fire = 0

Reactivity = 0

4. First aid measures

After inhalation: Move to fresh air. If symptoms persist or in case of complaints call a physician.**After contact with skin:** Wash off immediately with soap and plenty of water. In the case of skin irritation or allergic reactions see a physician.**After contact with eyes:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.**After ingestion:** Immediately call a physician.

5. Fire-fighting measures

Suitable extinguishing media: CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**Extinguishing media that must not be used for safety reasons:** none.**Special protective equipment for fire fighters:** Do not inhale explosive gases or combustion gases. Wear self-contained breathing apparatus for fire fighting, if necessary. Handle in accordance with good industrial hygiene and safety practice.

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6. Accidental release measures

Person-related safety precautions: Avoid contact with skin and eyes. Ensure adequate ventilation.

Measures for environmental protection: Prevent seepage into seage system, workpits and cellars.

Methods for cleaning up/taking up: Spilled or leaking material is to be soaked up with absorbent materials (sand, soil, diatomaceous earth, universal binders, sawdust) and put in containers. Dispose of as described in chapter 13. Ensure adequate ventilation.

7. Handling and storage

Handling:

Advice on safe handling: Keep receptacles tightly sealed. Avoid contact with skin and eyes.

Advice on protection against fire and explosion: No special precautions required.

Storage

Requirements for storage rooms and vessels: No special requirements.

Advice on storage compatibility: None.

Further Information about storage conditions: Keep receptacle tightly sealed.

8. Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of material with critical values that have to be monitored at the workplace.

Personal protective equipment:

Occupational exposure controls: Not applicable

Protective and hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Take off contaminated clothing and shoes immediately. Remove and wash contaminated clothing before re-use. Keep away from food and drink. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Respiratory protection: Not required.

Hand protection: impervious gloves, chemical-resistant

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed goggles.

9. Physical and chemical properties

Appearance

Form: Liquid

Color: Colorless

Odor: Typical for the product.

Important health, safety and environmental information

pH Value at 20 °C (68 °F): undetermined

Changes in the physical state

Melting point: undetermined

Boiling point: undetermined

Flash point: not applicable

Oxidizing properties None.

Density at 20°C (68°F): undetermined³

Explosive properties: None.

Water solubility at 20°C (68°F): Fully miscible

Auto ignition: Product is not self igniting

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10. Stability and reactivity

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Dangerous reactions: Reacts with acids, alkalis and oxidizing agents.

Dangerous products of decomposition: No dangerous decomposition products known.

11. Toxicological information

Acute toxicity:

Primary irritant effect on the skin: Irritant to skin and mucous membranes.

Primary irritant effect on the eye: Irritant effect.

Sensitising effect: Sensitization possible through inhalation. Sensitization possible through skin contact.

Additional information: The product is not subject to classification according to internally approved calculation methods for preparations.

12. Ecological information

Ecotoxicity: No data is available on the product itself.

Persistence and degradability: No data is available on the product itself.

Additional information: Generally not hazardous for water.

13. Advice on disposal

Product:

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

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

14. Transport information

US DOT 49 CFR 172.101

Hazard class: -

Land transport ADR/RID (cross-border)

ADR/RID class: -

Marine transport IMDG

IMDG Class: -

Marine pollutant: No

Air transport ICAO-TI and IATA-DGT

ICAO/IATA Class: -

15. Regulatory information

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Section 355 (extremely hazardous substances): None of the ingredients is listed.

Section 313 (specific toxic chemical listings): None of the ingredients is listed.

TSCA (Toxic Substance Control Act): All of the ingredients are listed.

Proposition 65

Chemicals known to cause cancer: None of the ingredients is listed.

Chemicals known to cause reproductive toxicity: None of the ingredients is listed.

Product related hazard information:

The product has been classified and marked in accordance with directives on hazardous materials..

Hazard symbols: Harmful

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Risk phrases:

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

Safety phrases:

Do not breathe gas/fumes/vapour/spray.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Wear suitable protective clothing. .

National regulations:

Water hazard class: Generally not hazardous for water.

16. Other information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

The product is to be used exclusively for the applications named in the technical leaflet or in the processing instructions.

The receiver of our product is singular responsible for adhering to existing laws and regulations.