

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Trade name: Proteinase K

Date of issue: June 15, 2012

Revised at: June 01, 2015 (version B)



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

### 1.1 Product identifier

Trade name: Proteinase K

Order number: 405002

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Laboratory chemical

### 1.3 Details of the supplier of the safety data sheet

Hain Lifescience GmbH

Hardwiesenstr. 1

72147 Nehren, Germany

Tel.: +49 (0) 74 73- 94 51- 0

E-Mail: msds@hain-lifescience.de

Informing department: Tel.: +49 (0) 74 73- 94 51- 730

### 1.4 Emergency telephone number

+49 (0) 74 73- 94 51- 0 (Mon-Fri 8:00-17:00 CET)

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008:

Eye irritation (Category 2)

Specific target organ toxicity - single exposure (Category 3)

Skin irritation (Category 2)

Respiratory sensitization (Category 1)

### 2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008:

Hazard pictograms:



Signal word:

Danger

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 statements:

P280:

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

P305+351+338: If in eyes: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing.

P310:

Immediately call a poison center or doctor/physician.

P405:

Store locked up.

### 2.3 Other hazards

none

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## **3. Composition/information on ingredients**

### **3.1 Substances**

Proteinase K (CAS no. 39450-01-6, EG no. 254-457-8, Index no. 647-014-00-9)

## **4. First aid measures**

### **4.1 Description of first aid measures**

If symptoms arise, call a physician.

If inhaled:	Remove to fresh air. Call a physician.
If swallowed:	Wash out mouth with plenty of water. Drink plenty of water. Call a physician.
In case of skin contact:	Immediately wash skin with soap and copious amounts of water. Remove contaminated clothing. Call a physician.
In case of eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Ensure adequate flushing by separating the eyelids with fingers. Call a physician.

### **4.2 Most important symptoms and effects, both acute and delayed**

No data available.

### **4.3 Indication of any immediate medical attention and special treatment needed**

No data available.

## **5. Firefighting measures**

### **5.1 Extinguishing media**

No restriction; use any means suitable for extinguishing surrounding fire.

### **5.2 Special hazards arising from the substance or mixture**

No data available.

### **5.3 Advice for firefighters**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## **6. Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Wear gloves and chemical safety goggles. Avoid formation of dust. Ventilate area and wash spill site after material pickup is complete.

### **6.2 Environmental precautions**

Do not let large quantities of product enter drains.

### **6.3 Methods and material for containment and cleaning up**

Pick up mechanically. Avoid formation of dust.

### **6.4 Reference to other sections**

Disposal: see section 13.

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## **7. Handling and storage**

### **7.1 Precautions for safe handling**

No further requirements.

### **7.2 Conditions for safe storage, including any incompatibilities**

Keep tightly closed at 2-8°C in a dry, ventilated area away from heat sources and flammable and toxic substances.

### **7.3 Specific end use(s)**

No data available.

## **8. Exposure controls/personal protection**

### **8.1 Control parameters**

Does not contain substances with exposure limit values.

### **8.2 Exposure controls**

Wear suitable protective clothing, gloves, and chemical safety goggles when handling the product. Close vial tightly immediately after use. Wash hands thoroughly after handling.

## **9. Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

- a) Appearance: white powder
- b) Odour: none
- c) Odour threshold: No data available.
- d) pH: No data available.
- 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) Vapour pressure: No data available.
- l) Vapour density: No data available.
- m) Relative density: No data available.
- n) Solubility(ies): water soluble
- o) Partition coefficient n-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) Oxidising properties: No data available.

### **9.2 Other information**

No data available.

## **10. Stability and reactivity**

### **10.1 Reactivity**

No data available.

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## 10.2 Chemical stability

No data available.

## 10.3 Possibility of hazardous reactions

No data available.

## 10.4 Conditions to avoid

No data available.

## 10.5 Incompatible materials

Strong oxidizing agents

## 10.6 Hazardous decomposition products

No data available.

## 11. Toxicological information

### 11.1 Information on toxicological effects

- a) Acute toxicity: No data available.
- b) Skin corrosion/irritation: No data available.
- c) Serious eye damage/irritation: No data available.
- d) Respiratory or skin sensitisation: May cause sensitization by inhalation.
- e) Germ cell mutagenicity: No data available.
- f) Carcinogenicity: No data available.
- g) Reproductive toxicity: No data available.
- h) Specific target organ toxicity - single exposure: May cause respiratory irritation.
- i) Specific target organ toxicity - repeated exposure: No data available.
- j) Aspiration hazard: No data available.

## 12. Ecological information

### 12.1 Toxicity

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

No data available.

### 12.6 Other adverse effects

No data available.

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## **13. Disposal considerations**

### **13.1 Waste treatment methods**

Dispose of unused reagents and waste in accordance with federal, state, and local regulations.

## **14. Transport information**

### **14.1 UN number**

ADR/RID: -

IMDG: -

IATA: -

### **14.2 UN proper shipping name**

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

### **14.3 Transport hazard class(es)**

ADR/RID: -

IMDG: -

IATA: -

### **14.4 Packing group**

ADR/RID: -

IMDG: -

IATA: -

### **14.5 Environmental hazards**

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

### **14.6 Special precautions for user**

No data available.

## **15. Regulatory information**

### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

No data available.

### **15.2 Chemical safety assessment**

No data available.

## **16. Other information**

The above product shall be used by trained staff only. The above information is believed to be correct but does not purport to be all inclusive and should be used only as a guide. Hain Lifescience shall not be held liable for any damage or other consequences resulting from handling or from contact with the above product.

**Changes compared to the previous version of this document**

Change of chapters 2.1, 2.2, and 16.