

**Safety data sheet**

according to: 1907/2006- REACH and 2020/878 (18.06.2020)

Proteinase K

Version EN: 2.1

Issue: 25.04.2022

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**                      **Proteinase K**

**Catalogue numer:**                      **E4350-01**  
**E4350-02**

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

**Identified uses:**                              laboratory chemicals  
**Uses advised against:**                      not specified

**1.3. Details of the supplier of the safety data sheet**

**Producer:**                      **EURx Sp. z o. o.**  
**80-297 Gdańsk,**  
**ul. Przyrodników 3**  
**Poland**

**E-mail address of the person responsible for data sheet:** eurx@eurx.com.pl

**1.4. Emergency telephone number**    112 (Emergency telephone)

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

According to Reg. 1272/2008

Resp. Sens. 1; H334

**Human health dangers:**

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

**Environmental hazards:**

None.

**Physic-chemical hazards:**

None.

**2.2. Label elements**

**Contains:**

Proteinase K

**Pictograms:**



**Signal Word:**

Danger.

**Hazard Statement (H):**

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

**Precautionary Statement (P):**

**P261** – Avoid breathing vapours/spray.

**P304+P340** – IF INHALED: Remove person to fresh air and keep comfortable for breathing.

**P342+P311** – IF experiencing respiratory symptoms: call a POISON CENTER or doctor/physician.

**2.3. Other hazards**

The product contains no substance meet the criteria for PBT or vPvB.

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The product does not contain substances included in the list of substances with endocrine disrupting properties according to the list established in accordance with Art. 59 REACH.

The product does not contain substances with endocrine disrupting properties in accordance with Commission criteria (EU) 2017/2100 or 2018/605.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable.

#### 3.2. Mixtures

Hazardous components:

Product identifier	Contains [%]	Classification CLP	
		Hazard Class and Category Code(s)	Hazard Statement Code(s)
Proteinase K CAS: 39450-01-6 WE: 254-457-8 Nr indeksu: 647-014-00-9	≤2	Skin Irrit. 2 Eye Irrit. 2 Resp. Sens. 1 STOT SE 3	H315 H319 H334 H335

For full text of H-statements: see SECTION 16

Components with Occupational Exposure Limits:

Glycerol (CAS: 56-81-5): <50%

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### Skin contact

Wash contaminated skin with soap and water, rinse thoroughly with water, in case of irritation, redness, consult your doctor.

##### Eye contact

Rinse with plenty water (15 min). Avoid strong water jet because of the danger of damage to the cornea. Consult your doctor.

##### Inhalation

Move to fresh air. Consult a physician if any symptoms develop and persist.

##### Ingestion

Do not induce vomiting. Rinse mouth with water. Give to drink a glass of water if victim is conscious. Consult your doctor.

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

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

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

The decision about how to proceed after the physical assessment of the victim.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

*Suitable extinguishing media:* foam, dry powder extinguishers, CO<sub>2</sub>, water spray. Use appropriate extinguishing method for conditions.

*Unsuitable extinguishing media:* Do not use a direct water jet.

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

Not applicable.

#### 5.3. Advice for firefighters

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Containers in fire area cooled with water spray, if it is possible to remove the danger zone.  
Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

### SECTION 6: Accidental release measures

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

*For non-emergency personnel:* Notify the appropriate service. Keep unnecessary people away; isolate hazard area.  
*For emergency responders:* Ventilate the area. Eliminate all sources of ignition. Wear suitable protective clothing.

#### 6.2. Environmental Precautions

Do not discharge into the drains/surface water/groundwater.

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

Absorb with inert, absorbent material (such as sand, earth, vermiculite, diatomaceous earth, etc.). Place the contaminated material in properly labeled containers for disposal in accordance with applicable regulations.

#### 6.4. Reference to other sections

Disposal considerations – see section 13.  
Personal precautions – see section 8.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Use only in well ventilated area. Avoid breathing vapors. Avoid contact with eyes. Avoid contact with skin.  
Handle in accordance with good industrial hygiene and safety practice: Do not eat, drink and smoke at work, wash your hands after use, remove contaminated clothing and protective equipment before entering places for meals.

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

Store in original container in cool place. Keep in properly labelled containers. Keep container closed. Store away from sources of heat or ignition. Do not store together with strong bases, strong acids and oxidizing agents.

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

See section 1.2.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Occupational Exposure Limits: Glycerol (CAS: 56-81-5): <5%

Country	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Australia	-	10 (1)	-	-
Belgium	-	10	-	-
Canada - Ontario	-	10	-	-
Canada – Quebec	-	10	-	-
Finland	-	20	-	-
France	-	10	-	-
Germany (AGS)	-	200 (1)	-	-
Germany (DFG)	-	200 (1)	-	400 (1)(2)
Ireland	-	10	-	400 (1)(2)
New Zealand	-	10 (1)	-	-
Poland	-	10	-	-
Singapore	-	10	-	-
South Korea	-	10	-	-
Spain	-	10	-	-
Switzerland	-	50 inhalable aerosol	-	-

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USA – OSHA	-	15 inhalable dust	-	100 inhalable aerosol
	-	5 inhalable dust	-	-
United Kingdom	-	10	-	-

Remarks	
Australia	(1) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.
Germany (AGS)	(1) Inhalable fraction (2) 15 minutes average value
Germany (DFG)	(1) Inhalable fraction (2) 15 minutes average value
New Zealand	(1) The value for inhalable dust containing no asbestos and less than 1% free silica.

**8.2. Exposure controls**

**Appropriate engineering controls:**

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.

**Individual protection measures, such as personal protective equipment:**



Eye / face protection:

Chemical resistant goggles must be worn (EN 166).

Skin protection

Hand protection:

It is recommended to use protective gloves resistant to chemicals (EN374).

Suitable material:

Nitrile rubber, butyl rubber (thickness: >0,4mm, penetration time: >480min.).

The selection of suitable gloves does not only depend on the material, but also on the brand and quality resulting from differences in manufacturers. Resistance of the material, the glove can be determined after the tests. The exact time of the destruction of the protective gloves must be determined by the manufacturer.

Other:

Protective clothing.

Respiratory protection:

Use with adequate ventilation. Avoid inhaling vapors of the product.

**Thermal hazards:**

Not applicable.

**Environmental exposure controls:**

No special precautionary measures necessary.

**SECTION 9: Physical and chemical properties**

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

Physical state	Liquid
Colour	Colorless
Odour	No data available.
Melting point/freezing point	No data available.
Boiling point or initial boiling point and boiling range	No data available.
Flammability	No data available.

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Lower and upper explosion limit	No data available.
Flash point	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
pH	No data available.
Kinematic viscosity	No data available.
Solubility	No data available.
Partition coefficient: n-octanol/water	No data available.
Vapour pressure	No data available.
Density and/or relative density	No data available.
Relative vapour density	No data available.
Particle characteristics	Not applicable.

**9.2. Other information**

None.

**9.2.1. Information with regard to physical hazard classes**

No data available.

**9.2.2. Other safety characteristics**

No data available.

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No data available.

**10.2. Chemical stability**

Under normal circumstances the product is stable.

**10.3. Possibility of hazardous reactions**

No data available.

**10.4. Conditions to avoid**

Keep away from heat, hot surfaces.

**10.5. Incompatible materials**

Strong bases, strong acids and oxidizing agents.

**10.6. Hazardous decomposition products**

No data available.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

(a) acute toxicity: Based on the available data, the classification criteria are not met.

(b) skin corrosion/irritation: Based on the available data, the classification criteria are not met.

(c) serious eye damage/irritation: Based on the available data, the classification criteria are not met.

(d) respiratory or skin sensitisation: **May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.**

(e) germ cell mutagenicity: Based on the available data, the classification criteria are not met.

(f) carcinogenicity: Based on the available data, the classification criteria are not met.

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- (g) reproductive toxicity: Based on the available data, the classification criteria are not met.  
 (h) STOT-single exposure: Based on the available data, the classification criteria are not met.  
 (i) STOT-repeated exposure: Based on the available data, the classification criteria are not met.  
 (j) aspiration hazard: Based on the available data, the classification criteria are not met.

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

Based on the available data, the classification criteria are not met.

#### 11.2.2. Other information

Based on the available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

The product is not classified as dangerous to the environment.

### 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

The product contains no substance meet the criteria for PBT or vPvB.

### 12.6. Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

### 12.7. Other adverse effects

No data available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Waste disposal methods:

Waste must be disposed of in accordance with local authority requirements.

#### Contaminated packaging:

Packaging: Dispose of product waste in accordance with local regulations. The packaging is recyclable.

## EU REGULATIONS

Directive 2008/98/EC Of The European Parliament And Of The Council of 19 November 2008 on waste and repealing certain Directives

## SECTION 14: Transport information

### ADR/RID/IMDG/IATA:

#### 14.1. UN number

Not applicable.

#### 14.2. UN proper shipping name

Not applicable.

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

Not applicable.

#### 14.4. Packing group

Not applicable.

#### 14.5. Environmental hazards

Not applicable.

#### 14.6. Special precautions for user

Not applicable.

#### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

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**SECTION 15: Regulatory information**

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

**EU REGULATIONS:**

1. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
2. Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
3. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Text with EEA relevance).
4. Directive 2008/98/EC Of The European Parliament And Of The Council of 19 November 2008 on waste and repealing certain Directives

**15.2. Chemical safety assessment**

No chemical safety assessments for the mixture.

- List of substances subject to authorization (REACH; Annex XIV): not applicable
- Candidate list of SVHCs: not applicable
- Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (REACH; Annex XVII): not applicable

**SECTION 16: Other information**

**Changes compared to the last version:**

Points: 2.3.; 9.2.1.; 9.2.2.; 11.2.; 12.6.; 12.7..

**Abbreviations and acronyms, list of relevant hazard statements used in the safety data sheet:**

**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  
**Skin Irrit. 2** – Skin irritation cat. 2  
**Eye Irrit. 2** – Eye irritation cat. 2  
**Resp. Sens. 1** – Respiratory sensitization cat. 1  
**STOT SE 3** – Specific target organ toxicity - single exposure cat. 3  
**DNEL** – derived no-effect level  
**PNEC** – predicted no-effect concentration  
**ATE** – Acute Toxicity Estimate  
**LC50** – lethal concentration, 50%  
**LD50** – lethal dose, 50%  
**PBT** – Persistent, Bioaccumulative and Toxic  
**vPvB** – very Persistent and very Bioaccumulative  
**ADR** – International Carriage of Dangerous Goods by Road  
**RID** – International Carriage of Dangerous Goods by Rail  
**IMDG** – International Maritime Dangerous Goods  
**IATA** – International Air Transport Association

Method of classification:

Calculation method

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### Training:

Before working with the product is recommended safety training of employees in connection with the occurrence of workplace chemicals. Documentation should be prepared and employees should be familiarized with the results of risk assessment in the workplace associated with the presence of chemical agents.

### **Key literature:**

Annex to Regulation (EU) 2015/830.

Current legislation (Section 15).

Information Agency for Chemical Substances.

*The information in this MSDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this MSDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.*