

## Proteinase K

Revision date: 2017/11/01

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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product number: Proteinase K

Recommended use: Laboratory Chemicals

Supplier: RBC Bioscience Corp.

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### 2. HAZARDS IDENTIFICATION

#### GHS Classification

Respiration sensitization: Category 1

#### GHS Label element

Hazard pictograms:



Signal Word: Danger

#### Hazard Statements

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

#### Precautionary Statements

Prevention

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P284 Wear respiratory protection.

Response

P304+P341 if inhaled: if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P342+P311 if experiencing respiratory symptoms: Call a poison centre or doctor/ physician.

#### Potential Health Effects:

Aggravated Medical Condition: None known.

Symptoms of Overexposure: No information available.

Carcinogenicity

#### IARC

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

#### ACGIH

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**OSHA**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**NTP**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Substance

Hazardous ingredients

Chemical Name	CAS-No.	Concentration (%)
Proteinase K	39450-01-6	1~5

### 4. FIRST AID MEASURES

**General advice:**

Move out of dangerous area. Show this material safety data sheet to the doctor in attendance..

**If inhaled:**

If unconscious place in recovery position and seek medical advice. Keep respiratory tract clear. If symptoms persist, call a physician.

**In case of skin contact:**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.

**In case of eye contact:**

Remove contact lenses. Protect unharmed eye. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed:**

If accidentally swallowed obtain immediate medical attention. Rinse mouth with water. Never give anything by mouth to an unconscious person.

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

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

**Note to Physician:**

No information available

### 5. FIRE FIGHTING MEASURE

**Suitable Extinguishing media:**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Specific hazards during firefighting:**

Exposure to decomposition products may be a hazard to health.

**Hazardous combustion products:**

No hazardous combustion products are known.

**Specific extinguishing methods:**

In the event of fire and/or explosion don't breathe fumes.

**Special protective equipment for fire-fighters:**

Wear self-contained breathing apparatus for firefighting if necessary

## 6. ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment. Ensure adequate ventilation. Avoid breathing dust/fume/gas/mist/vapors/spray.

### **Environmental precautions:**

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

### **Methods and materials for containment and cleaning up:**

Soak up with inert absorbent material. (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

### **Advice on safe handling:**

Avoid formation of aerosol. Don't breathe vapors/dust. Avoid exposure – obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

### **Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place.

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

### **Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

### **Personal protective equipment**

#### **Respiratory protection:**

In the case of vapor formation use a respirator with an approved filter.

#### **Hand protection remarks:**

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact)

#### **Material:**

Protective gloves

#### **Eye protection:**

Tightly fitting safety goggles. Don't wear contact lenses.

#### **Skin and body protection:**

Choose body protection according to the amount and concentration of the dangerous substance at the work place. Footwear protecting against chemicals.

#### **Hygiene measures:**

Keep away from food and drink. Wash hands before breaks and at the end of workday. Ensure adequate ventilation, especially in confined areas. Avoid contact with the skin and the eyes. When using do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Solid, (lyophilized)  
Color: No data available.  
Odor: characteristic.  
Odor Threshold: No data available.  
pH: No data available.  
Melting point/range: No data available.  
Boiling point/range: No data available.  
Flash point: No data available.  
Evaporation rate: No data available.  
Burning rate: No data available.  
Upper explosion limit: No data available.  
Lower explosion limit: No data available.  
Vapor pressure: No data available.  
Relative vapor density: No data available.  
Relative density: No data available.  
Density: No data available.  
Solubility: No data available.  
Water solubility: No data available.  
Solubility in other solvents: No data available.  
Partition coefficient n-octanol/water: No data available.  
Auto ignition temperature: No data available.  
Thermal decomposition: No data available.  
Viscosity: No data available.  
Viscosity, dynamic: No data available.  
Viscosity, kinematic: No data available.  
Explosive properties: No data available.  
Oxidizing properties: No data available.

## 10. STABILITY AND REACTIVITY

Reactivity: No decomposition if stored and applied as directed.  
Chemical stability: No decomposition if stored and applied as directed.  
Possibility of hazardous reactions: Stable under recommended storage conditions.  
Conditions to avoid: Heat, Flames and sparks.  
Incompatible materials: No data available  
Hazardous decomposition products: No decomposition if stored and applied as directed.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Product:

Acute oral toxicity: No data available  
Acute inhalation toxicity: No data available  
Acute dermal toxicity: No data available

### Skin corrosion/irritation

#### Product:

May cause skin irritation and/or dermatitis.

## Serious eye damage/eye irritation

### Product:

Remarks: the product causes irritation of eyes, skin and mucous membranes.

## Respiratory or skin sensitization

### Product

Remarks: May cause sensitization by inhalation and skin contact.

## Germ Cell mutagenicity

No data available

## Carcinogenicity

No data available

## Reproductive toxicity

No data available

## STOT-single exposure

No data available

## STOT-repeated exposure

No data available

## Aspiration toxicity

No data available

## Further information

No data available

## 12. Ecological Information

### Eco toxicity

#### Product

Toxicity to fish: No data available

Toxicity to algae: No data available

Toxicity to bacteria: No data available

### Persistence and degradability

No data available

### Bio accumulative potential

#### Product

Bio accumulation: No data available

Partition coefficient n-octanol/water: No data available

### Mobility in soil

No data available

### Other adverse effects

No data available

## 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

Waste from residues:

Send to a licensed wastes management company. Dispose of as hazardous waste in compliance with local and national regulations.

Contaminated packaging:

Dispose of as unused product. Don't re-use empty containers.

## 14. TRANSPORT INFORMATION

### UNRTDG

Not regulated as a dangerous good

### IATA-DGR

Not regulated as a dangerous good

### IMDG-Code

Not regulated as a dangerous good

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

### Domestic regulation

#### 49 CFR

Not regulated as a dangerous good

### Special precaution for user:

Remarks: Not classified as dangerous in the meaning of transport regulations.

## 15. REGULATORY INFORMATION

### OSHA Hazards:

Respiratory sensitizer, Sever skin irritant. Server eye irritant. Server respiratory irritant.

### EPCRA-Emergency Planning and Community Right-to-Know

### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards:** Acute Health Hazard

### SARA 302:

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

**California Prop 65**

This product does not contain any chemicals known to the State of California to cause cancer, birth or any other reproductive defects.

## 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.