

# SAFETY DATA SHEET

[Required under safety and health regulations for shipping and handling]

Version: 2019  
Date Updated: April 01, 2019

## SECTION 1. ----- PRODUCT AND COMPANY IDENTIFICATION-----

|                                      |  |
|--------------------------------------|--|
| <b>Product Name</b>                  | Proteinase K   |
| <b>Product Code(s)</b>               | #92  |
| <b>Recommended Use</b>               | For Laboratory Research Use Only<br>Not for Human or Animal Drug Use |
| <br>                                 |  |
| <b>Supplier</b>                      | Bio Basic Inc.   |
| <b>Address</b>                       | 20 Konrad Crescent, Markham, Ontario,<br>Canada, L3R 8T4             |
| <b>Telephone</b>                     | (905) 474 4493   |
| <b>Fax</b>                           | (905) 474 5794   |
| <b>For Chemical Emergency Phone#</b> | (416) 995 9730   |


## SECTION 2. ----- HAZARDS IDENTIFICATION -----

### Classification of the substance or mixture

#### GHS Classification in accordance with Hazardous Products Regulations (HPR) (SOR/2015-17)

Skin irritation  
(Category 2), H315  
Eye irritation  
(Category 2A), H319  
Respiratory sensitisation (Category 1), H334  
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335 For the full text of the H-Statements mentioned in this Section, see Section 16.

#### GHS Label elements, including precautionary statements

|                            |  |
|----------------------------|--|
| Pictogram                  |   |
| Signal word                | Danger   |
| Hazard statement(s)        |  |
| 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) |  |
| P261                       | Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.   |
| P264                       | Wash skin thoroughly after handling.   |
| P271                       | Use only outdoors or in a well-ventilated area.  |
| P280                       | Wear protective gloves/ eye protection/ face protection.   |
| P284                       | Wear respiratory protection.   |
| P302 + P352                | IF ON SKIN: Wash with plenty of water.   |
| P304 + P340 + P312         | IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.       |
| P305 + P351 + P338         | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

|             |   |
|-------------|---|
| P332 + P313 | If skin irritation occurs: Get medical advice/ attention.           |
| P337 + P313 | If eye irritation persists: Get medical advice/ attention.          |
| P342 + P311 | If experiencing respiratory symptoms: Call a POISON CENTER/doctor.  |
| P362 + P364 | Take off contaminated clothing and wash it before reuse.            |
| P403 + P233 | Store in a well-ventilated place. Keep container tightly closed.    |
| P405        | Store locked up.  |
| P501        | Dispose of contents/ container to an approved waste disposal plant. |

**Hazards not otherwise classified (HNOC) or not covered by GHS - none**

**SECTION 3. ----- COMPOSITION/INFORMATION ON INGREDIENTS -----**

| Chemical Name | EC No.    | CAS-No     | Weight % |
|---------------|-----------|------------|----------|
| Proteinase K  | 254-457-8 | 39450-01-6 | <100     |

**SECTION 4. ----- FIRST-AID MEASURES -----**

**General advice**

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

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

**SECTION 5. ----- FIRE FIGHTING MEASURES -----**

**Extinguishing media**

**Suitable extinguishing media**

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

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

No data available

**Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**Further information**

No data available

**SECTION 6. ----- ACCIDENTAL RELEASE MEASURES -----**

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

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

**Environmental precautions**

Do not let product enter drains.

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

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**Reference to other sections**

For disposal see section 13.

**SECTION 7. ----- HANDLING AND STORAGE-----**

**Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

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

Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature -20 °C

Keep in a dry place.

Storage class (TRGS 510): 13: Non Combustible Solids

**Specific end use(s)**

Apart from the uses mentioned in section 1 no other specific uses are stipulated

**SECTION 8. ----- EXPOSURE CONTROLS/PERSONAL PROTECTION-----**

**Control parameters**

**Exposure controls**

**Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protective equipment**

**Eye/face protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

**Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Control of environmental exposure

Do not let product enter drains.

### SECTION 9. ----- PHYSICAL AND CHEMICAL PROPERTIES -----

#### Appearance

|        |                     |
|--------|---------------------|
| Form   | powder, lyophilized |
| Colour | No data available   |

#### Safety data

|  |                   |
|--|-------------------|
| pH                                     | No data available |
| Melting point/freezing point           | No data available |
| Boiling point                          | No data available |
| Flash point                            | No data available |
| Ignition temperature                   | No data available |
| Auto-ignition temperature              | No data available |
| Lower explosion limit                  | No data available |
| Upper explosion limit                  | No data available |
| Vapour pressure                        | No data available |
| Density                                | No data available |
| Water solubility                       | No data available |
| Partition coefficient: n-octanol/water | No data available |
| Relative vapour density                | No data available |
| Odour                                  | No data available |
| Odour Threshold                        | No data available |
| Evaporation rate                       | No data available |

### SECTION 10. ----- STABILITY AND REACTIVITY -----

#### Chemical stability

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

no data available

#### Conditions to avoid

no data available

#### Materials to avoid

Strong oxidizing agents

#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known. Other decomposition products - no data available

### SECTION 11. ----- TOXICOLOGICAL INFORMATION -----

**Acute toxicity**

**Oral LD50**  
no data available

**Inhalation LC50**  
no data available

**Dermal LD50**  
no data available

**Other information on acute toxicity**  
no data available

**Skin corrosion/irritation**  
no data available

**Serious eye damage/eye irritation**  
no data available

**Respiratory or skin sensitisation**  
no data available

**Germ cell mutagenicity**  
no data available

**Carcinogenicity**

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

**Reproductive toxicity**  
no data available

**Teratogenicity**  
no data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**  
May cause respiratory irritation.

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**  
no data available

**Additional Information**  
RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

prolonged or repeated exposure can cause:, Asthma

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Lungs - Irregularities - Based on Human Evidence

**SECTION 12. ----- ECOLOGICAL INFORMATION -----**

**Toxicity**  
No data available

**Persistence and degradability**  
No data available

**Bioaccumulative potential**  
No data available

**Mobility in soil**

No data available

**PBT and vPvB assessment**

No data available

**Other adverse effects**

No data available

**SECTION 13. ----- DISPOSAL CONSIDERATIONS -----**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product.

**SECTION 14. ----- TRANSPORT INFORMATION -----**

**TDG (Canada)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**SECTION 15. ----- REGULATORY INFORMATION -----**

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

**SECTION 16. ----- OTHER INFORMATION -----**

Full text of H-Statements referred to under sections 2 and 3.

|             |  |
|-------------|--|
| Eye Irrit.  | Eye irritation   |
| 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.  |
| Resp. Sens. | Respiratory sensitisation  |
| Skin Irrit. | Skin irritation  |
| STOT SE     | Specific target organ toxicity - single exposure                           |

Further information: no limited for paper copy, just for internal uses.  
For research use only. Not intended for human or animal diagnostic or therapeutic uses.

**Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of SDS**