1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

a) GHS Product Identifier : Proteinase K

b) Other means of identification : Not available

c) Product code : HK878-20X, HK878-01K, HK878-03K, HK878-03KE, HK878-05K, HK878-05KE, HK878-5K, HK878-YAK, HX878-04X, HX878-04XE, HX878-YAD, HX878-YADE, HX878-YAX

d) Recommended use of the chemical and restrictions on use : Restricted for professional users.

e) Supplier's details (including name, address, phone number etc.) : BioGenex Laboratories, Inc
49026 Millmont Drive
Fremont, CA 94538

f) Emergency phone number : BioGenex: (01) (510) 275-0550
Chemtrec Assistance: (800) 424-9300 (U.S. and Canada only)
(01) (703) 527-3887 (all other countries)

2. HAZARD IDENTIFICATION

a) GHS classification of the substance/mixture and any national or regional information: **Classification according to Regulation (EC) No. 1272/2008**

Skin irritation (Category 2),

H315 Eye irritation (Category 2),

H319 Respiratory sensitisation (Category 1),

H334 Specific target organ toxicity - single exposure (Category 3),H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

b) GHS label elements, including precautionary statements :

LABELING:

C

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

P261 - Avoid breathing dust.

P305+P331+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing..

P342 + P311- If experiencing respiratory symptoms: Call a POISON CENTER/doctor

c) Other hazards which do not result in the classification or are not covered by the GHS: Restricted to professional users.

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

a) Chemical identity : Proteinase K

b) Common name, synonyms, etc : Endopeptidase K

c) CAS number and other unique identifiers

Component Name	CAS No	EC No	Content	Index No	Classification
Proteinase K	39450-01-6	254-457-8	100%	647-014-00-9	Skin Irrit. 2; Eye Irrit. 2; Resp. Sens 1; STOT SE 3; H315, H319, H334, H335

4. FIRST AID MEASURES

Get medical aid immediately.

EYES: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Do NOT allow victim to rub or keep eyes closed.

SKIN: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

INGESTION: Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Call a poison control center.

INHALATION: Move the victim to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician: Treat symptomatically and supportively. No specific antidote exists.

5. FIRE-FIGHTING MEASURES

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
Special hazards arising from the substance or mixture : Nature of decomposition products not known
Advice for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

a) Personal precautions, protective equipment and emergency procedures:
Wear appropriate protective equipment as specified in Section 8.

b) Environmental precautions:
Prevent discharge into the environment. Dike spills and stop leakage where practical. Do not allow material to enter drains.

c) Methods and materials for containment and cleaning up.
Eliminate source of ignition. Ventilate area. Cover with absorbent material (soda ash) to confine spill and sweep or shovel into container. Close container tightly. Avoid breathing vapors.

7. HANDLING AND STORAGE

a) 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.

b) Conditions for safe storage, including any incompatibilities:
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Recommended storage temperature -20 °C Storage class (TRGS 510): Combustible Solids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:
A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source..

Personal Protective Equipment
Eyes: Wear safety goggles.
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to prevent skin exposure.
Respiratory Protection : For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle r (US) or type ABEKP2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). .

9. PHYSICAL AND CHEMICAL PROPERTIES

a. Appearance : Clear Liquid
b. Odor Odorless
c. Melting/Freezing Point (^{o}C) NDA
d**. Boiling point (^{o}C)** NDA
e. Flash Point (^{o}C) NDA
f. Evaporation Rate NDA
g. Flammability NDA
h. Water Solubility NDA

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions of use.

CONDITIONS TO AVOID: Heat, sources of ignition.

INCOMPATIBLE WITH : Strong oxidizing agents

11. TOXICOLOGICAL INFORMATION

a) Information on the likely routes of exposure: Eyes, Oral, Dermal, Inhalation

b) Symptoms related to the physical, chemical and toxicological characteristics:

INHALATION: May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema. May cause ulceration of nasal tissue, insomnia, nervous tremors with numb extremities, chemical pneumonia, shock, unconsciousness, and death

INGESTION: May cause perforation of the digestive tract and severe digestive tract irritation with abdominal pain, nausea, vomiting and diarrhea. May cause difficulty in swallowing, stomach distension, possible cerebral swelling and death

SKIN CONTACT: Repeated or prolonged contact can cause redness, irritation, and scaling of the skin (dermatitis). Normal care and personal

hygiene should prevent skin effects.

EYE CONTACT: Eye irritation may occur with exposure to concentrated vapors or contact with product.

c) Delayed and immediate effects and also chronic effects from short and long term exposure

NDA

d) Numerical measures of toxicity (such as acute toxicity estimates)

NDA

Carcinogenicity : None of the components of this material are listed by NTP, OSHA, ACGIH, or IARC as a carcinogen or a suspected carcinogen.

Mutagenicity : No information available.

Reproductive Toxicitiy : No information available.

Teratogenic Effects : No information available.

12. ECOLOGICAL INFORMATION

a) Ecotoxicity (aquatic and terrestrial, where available): NDA

b) Persistence and degradability : NDA

c) Bioaccumulative potential : NDA

d) Mobility in the soil : NDA

e) Other adverse effects : Not a PBT or vPvB

13. DISPOSAL INFORMATION

Waste Treatment Methods

Offer surplus or non-recyclable product to licensed disposal company. Disposal is subject to user compliance with applicable law and product characteristics at time of disposal. Dispose of packaging as product.

14. TRANSPORT INFORMATION

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

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

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

RID/ADR: Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. 15.2

Chemical safety assessment

For this product a chemical safety assessment was not carried out

16. Other information including information on preparation and revision of the SDS

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

Key abbreviations:

N/A	: Not Applicable
NDA	: No data available

Notice to reader

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