

1. Identification of the substance/preparation and of the company

- Identification of the substance or preparation:

GENOMED Protease

Order Numbers: Contained in 440 050, 440 250, 441 020, 441 050, 442 020, 440 050

- Company identification:

GENOMED Molekularbiologische und diagnostische Produkte GmbH (manufacturer)

Poststrasse 22, D-32584 Löhne/Germany

Tel: (49)-(0)5732/904-700; Fax: -7010

- Emergency Adress:

GENOMED Molekularbiologische und diagnostische Produkte GmbH (manufacturer)

Poststrasse 22, D-32584 Löhne/Germany

Tel: (49)-(0)5732/904-700; Fax: -7010

2. Composition/information on ingredients

Serine Proteas from a recombinant *Bacillus strain*

3. Hazards identification

Odorless, white powder. Irritating to eyes, skin and respiratory tract. Enzyme powders are dusty substances. Inhalation of the enzyme dust resulting from handling may induce sensitisation and cause allergic reactions in sensitised individuals. Avoid contact with eyes, skin and clothing. Avoid repeated or prolonged contact. Keep container tightly closed. Wash thoroughly after handling. Use only with adequate ventilation.

Potential Health Effects:

Inhalation: Short term effects: May cause irritation. May cause allergic reactions.

Long term effects: No information available on significant adverse effects.

Skin contact: Short term effects: May cause irritation. May cause allergic reactions.

Long term effects: May cause irritation. May cause allergic reactions.

Eye contact: Short term effects: May cause irritation.

Long term effects: Same as for short term exposure.

Ingestion: No information available.

4. First aid measures

Wearing of gloves and other protective clothing is strongly advised.

In case of inhalation, remove person from exposure area to fresh air immediately. Perform artificial respiration if necessary. Keep person warm and at rest. Get medical attention immediately.

In case of contact with eyes, rinse eyes immediately with plenty of water or medical saline. Seek medical advice.

In case of skin contact, remove contaminated clothing and shoes immediately. Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains. Seek medical advice.

Ingestion: If vomiting occurs, keep head lower than hips to help prevent aspiration. Treat symptomatically and supportively.

5. Fire-fighting measures

Not inflammable. Choose extinguishing media according to environment conditions. Dry chemical, carbon dioxide, water spray or regular foam are appropriate. Wear self contained breathing apparatus, approved gas mask and protective clothing to avoid contact with eyes and skin.

6. Accidental release measures

- personal precautions such as: Wear rubber or latex gloves, safety goggles and suitable protective clothing.
- methods for cleaning up such as: Wipe up substance immediately and dispose in accordance with state or local laws. Avoid formation of dust. Take up by mechanical means, preferably by a vacuum equipped with a high efficiency filter. Flush carefully with plenty of water. Do not flush spilled material into sewer. Avoid splashing and high pressure washing. Clean and ventilate the concerning area after complete removal. Wash contaminated clothing.

7. Handling and storage

Avoid formation of dust. Ensure good ventilation of the room when handling this substance. Store solid desiccated at -20°C or below. Store in tightly closed containers, prevent exposure to moisture. Observe all national and local regulations when storing this substance.

8. Exposure controls/personal protection

- respiratory protection: Use respirator with filter, CEN class A2, B2, E2, K2, P3.
- hand protection: Rubber or latex gloves.
- eye protection: Splash-proof or dust-resistant safety goggles.
- skin protection: Suitable protective clothing.

9. Physical and chemical properties

- appearance: Odorless, white, freeze-dried powder.
- pH: N. I.
- boiling point: N. I.
- melting point: N. I.
- specific gravity: N. I.
- vapor pressure: N. I.

10. Stability and reactivity

- conditions to avoid: Avoid contact with strong oxidizers, excessive heat, sparks or open flame.
- hazardous decomposition products: Thermal decomposition has not been reported to occur under normal temperatures and pressures.

11. Toxicological information

Inhalation of the enzyme dust resulting from handling may induce sensitisation and cause allergic reactions in sensitised individuals.

Carcinogen Status: None.

Local Effects: Irritant for eye, skin and mucous membranes

Acute toxicity level: No data available

Target effects: Sensitizer – respiratory, dermal

12. Ecological information

On regular use no prejudice is to be expected. The substance is readily biodegradable.

13. Disposal considerations

The component should be disposed in accordance with state or local laws.

14. Transport information

None.

15. Regulatory information

European information:

R: 42

Harmful (Xn). May cause sensitisation by inhalation..

S: 22

Do not breathe dust.

S: 36

Wear suitable protective clothing.

16. Other information

The above-mentioned data correspond to our present state of knowledge and experience. Although utmost care has been taken in the composition of this text, the publisher cannot be held responsible for any damage resulting from any eventual error in this publication.