1 Chemical Product and Company Identification

Identification of the product Proline specific endopeptidase

Product Code PSP-101

Supplier Name TOYOBO CO.,LTD.
Address 2-8, Dojima Hama 2-chome, Kita-ku, Osaka 530-8230, Japan
Department Biotechnology Overseas Sales and Marketing Department
Phone +81-6-6348-3843
Fax +81-6-6348-3833

2 Recommended use and restrictions on use

diagnostic product

3 Hazard Identification

Most Important Hazards and Effects The product might cause allergic reactions upon inhaling or skin contact because of the protein contained.

GHS classification

4 Composition/Information on Ingredients

Substance/Mixture Mixture
Chemical Nature Proline specific endopeptidase
CAS# -
Concentration or concentration range ca. 80%(W/W)
Stabilizer, etc ca. 20%
The ingredients known as hazardous are not included.

5 First Aid Measures

Inhalation Remove to fresh air. Consult a physician when unpleasantness occurs.
Skin Contact Wash off with plenty of water. Consult a physician when inflammation on the skin occurs.
Eye Contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Ingestion Swill plentiful amount of water or milk for immediate vomiting, consult a physician.

6 Fire Fighting Measures

Extinguishing Media Water spray, dry chemical powder, or carbon dioxide etc.
Protection of Firefighters Avoid working at leeward.

7 Accidental Release Measures

Personal Precautions

Environmental Precautions High concentrated waste fluid should not be directly discharged into rivers.
Methods for Cleaning up Take up under vacuum using dust collecting filter, wash residual spill with copious amounts of water. Use cloth, paper or anything similar to soak up the solution leaking out of the container. (Waste water should be treated with activated sludge or adsorbed with activated carbon etc.)

8 Handling and Storage

Handling

Technical Measures Wear protective gear to avoid eye/skin contact and inhalation. Do not drop the container to prevent the content popping out.
Precautions None specified.

Storage

Technical Measures Keep sealed container in freezer.
Incompatible substances and mixtures None specified.
Storage Conditions Store under -20°C to avoid deactivating.
Packaging Materials Use the initial container of the product.

9 Exposure Controls/Personal Protection

Engineering Measures Provide shower and eye washing apparatus nearby.
Personal Protective Equipment
Respiratory Protection Protecting mask.
Hand Protection Protecting gloves (rubbers or plastic gloves etc.).
Eye Protection Safety goggles.
Skin and Body Protection Long sleeve working wear.
Product Name: Proline specific endopeptidase (PSP-101)

First issue: May. 1, 2014
Reviced: Apr. 1, 2021

SDS No. 905F

Safety Data Sheet

Physical and Chemical Properties

Physical State: Powder

Colour/Odour: White/No odour

pH: ca. pH6.5-7.5 in the case of 100 mg/ml in water.

Decomposition Temperature: No information available.

Flash Point: No information available.

Density: No information available.

Solubility: Easily soluble in water.

Stability and Reactivity

Stability: Stable at temperatures below -20°C. When left for long at room temperature, proteins might be degraded, which does not cause any hazardous reaction.

Possible hazard reactions at specific condition: Not specified.

Conditions to avoid: Prolonged storage at temperatures higher than room temperature and high humidity.

Materials to avoid: Any materials which dissolve or destroy proteins such as strong acid or alkali.

Hazardous Decomposition Products: No information available.

Toxicological Information

Acute Toxicity: No information available.

Eye damage/irritation: No information available.

Skin corrosion/irritation: No information available.

Sensitization: No information available.

Germ cell mutagenicity: No information available.

Specific target organ systemic toxicity (Repeated exposure): Aspiration toxicity

Carcinogenicity: No information available.

Toxic to reproduction: No information available.

Specific target organ toxicity (Single exposure): No information available.

Ecological Information

Persistence/Degradability: This product is biodegradable and does not remain on the environment for long.

Disposal Considerations

Residues: Dispose of in accordance with all applicable local and national laws and regulations.

Contaminated packaging: Wash with copious amounts of water and waste conforming to local regulations depending on the type of the material.

Transport Information

International Regulations: None specified (Not classified as hazardous material as per the UN recommendation).

Domestic Regulations: None specified.

Specific Precautions: Keep at temperatures below -20°C.

Regulatory Information

Regulations: Follow all of the laws and regulations in your country.

Other Information

Notice: The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may be present unknown hazards and should be used with caution. The SDS is subject to revision as new information becomes available. The information in this SDS, to the best of our knowledge, is accurate and correct. However, TOYOBO makes no warranty and assumes no liability whatsoever in connection with any use of this information.