**TOYOBO** 

 $\alpha$  -Glucosidase First issue : Jan. 6. 2011 Revised: May. 31, 2022

SDS No.410F

# Safety Data Sheet

1 Product and Company Identification

Product Name lpha -Glucosidase

Product Code AGH-211

Supplier

Name TOYOBO CO., LTD

Address Osaka Umeda Twin Towers South,

1-13-1 Umeda Kita-ku, Osaka 530-0001, Japan

Department Biotechnology Overseas Sales and Marketing Department

Phone +81-6-6348-3846
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Recommended use and restrictions on diagnostic product

use

2 Hazard Identification

skin contact because of the protein contained.

GHS classification Classification not possible

3 Composition/Information on Ingredients

Substance/Preparation Preparation Chemical Nature  $\alpha$ -Glucosidase CAS# 9001-42-7 amounts contained ca. 35%(W/W)

Ingredients Contributing to the Hazard No information available.

4 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 Rince off with running water for 15 minutes or longer

immediately, consult a physician afterwards.

Ingestion Swill plentiful amount of water or milk for immediate

vomiting, consult a physician.

5 Fire Fighting Measures

Extinguishing Media Water spray, dry chemical powder, or carbon dioxide etc.

Protection of Firefighters Avoid working at leeward.

6 Accidental Release Measures

Personal Precautions Wear protective gear to avoid eye/skin contact and

inhalation. Do not work at leeward.

Environmental Precautions High concentrated waste fluid should not be directly

discharged into rivers.

Methods for Cleaning up Use cloth, paper or anything similar to soak up the

solution leaking out of the container. Take up under vacuum using dust collecting filter, wash residual spill with copious amounts of water. (Waste water should be treated

with activated sludge etc.)

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7 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.

Safe Handling Advice Wear protective gear, avoiding contact on eye, skin and

cloths.

Storage

Technical Measures Keep sealed container in freezer.

Incompatible Products None specified. Storage Conditions Store under  $-20^{\circ}$ C.

8 Exposure Controls/Personal Protection

Engineering Measures Set local ventilation equipment.

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.

9 Physical and Chemical Properties

Physical State, form and colour Solid, powder, white

Odour No odor

pH Approximate pH7.0 in the case of 10 mg/ml in water.

Decomposition Temperature

Flash Point

Density

No information available.

No information available.

No information available.

Freely soluble in water.

10 Stability and Reactivity

Stability Stable at temperatures below -20°C. Proteins, when left for

long at room temperature, might be degraded, which does not

cause any hazardous reaction though.

Possible hazard reactions at specific  $% \frac{1}{2}\left( \frac{1}{2}\right) =\frac{1}{2}\left( \frac{1}{2}\right) +\frac{1}{2}\left( \frac{1}{2}\right) +\frac{1}{2}\left($ 

condition Not specified.

Conditions to avoid Prolonged storage under higher temperature 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.

11 Toxicological Information

Acute Toxicity

Local Effects

Sensitization

Not available.

Not available.

12 Ecological Information

Persistence/Degradability lpha -Glucosidase decomposes and does not remain on the

environment for long, since it consists of protein.

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## 13 Disposal Considerations

Waste from Residues

Contaminated packaging

#### 14 Transport Information

International Regulations

Specific Precautions

### 15 Regulatory Information

Regulations

#### 16 Other Information

Notice

# Safety Data Sheet

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

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

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

Keep at temperatures below  $-20^{\circ}$ C.

None specified.

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