Safety Data Sheet

β-Glucosidase
First issue :
SDS No. 1790F

1 Chemical product and company identification
Identification of the product
Product Code
β-Glucosidase
BGH-101
SUPPLIER
Name
TOYOBO CO., LTD
Address
2-8, Dojima-Hama 2-chome Kita-ku, Osaka 530-8230, Japan
Telephone No.
+81-6-6348-3843
Fax No.
+81-6-6348-3833
Recommended uses and restrictions on use
diagnostic product

2 Hazards identification
Important hazards
The product might cause allergic reactions upon inhaling or skin contact because of the protein contained.
GHS classification
Classification not possible

3 Composition/information on ingredients
Chemical product (a substance or a mixture)
Mixture
Hazardous ingredients
β-Glucosidase
Stabilizer, etc
Chemical identity
Systematic chemical name,
β-Glucosidase
Stabilizer, etc
Trivial, common or generic name
CAS No.
9001-22-3
Concentration or concentration range
c.a.12.5 %(w/w)
c.a.87.5% (w/w)

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
Rinse with water for several minutes or longer immediately. Consult a physician if eye irritation persists.
Ingestion
Swill plentiful amount of water or milk for immediate vomiting. Consult a physician when unpleasantness occurs.

5 Fire-fighting measures
Extinguishing media
Water spray, foam, dry chemical powder, or carbon dioxide etc.
Specific hazards
Toxic gases and fumes are generate in a fire
Specific extinguishing methods
Fire-fighting is done from the windward side.
Precautions for fire-fighters
In case of large fires, wear respiratory protection.

6 Accidental release measures
Personal precautions, protective equipment, and emergency procedure
Wear protective gear to avoid eye/skin contact and inhalation.
Collection work is done from the windward side.
Environmental precautions
High concentrated waste fluid should not be directly discharged into rivers.
Methods and materials for containment and methods and materials for cleaning up(Recovery, neutralization and disposal)
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.
Precautions
Do not drop the container to prevent the content popping out.
Storage
Technical measures
Keep sealed container in freezer and store under -20°C.
Packaging materials
Use the initial container of the product.

8 Exposure controls and personal protection
Engineering controls
Provide eye washing apparatus nearby.
Personal protective equipment
Dust mask
Protecting gloves(rubber or plastic gloves etc.)
Safety goggles
Long sleeve working wear.

9 Physical and chemical properties
Physical State, Form, Colour
Powder, Light Yellow
Odour
No odour
pH
Approximate pH 7.5 in the case of 10 mg/ml in water.
Flash point
No information available.
Density
No information available.
Solubility
Easily soluble in water.
Decomposition temperature
No information available.
Flammability (solid, gas)
No information available.

10 Stability and reactivity
Chemical stability and hazardous reactions
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.
Conditions to Avoid
Prolonged storage under higher temperature than room temperature and high humidity.
Incompatible materials
Any materials which dissolve or destroy proteins such as strong acid or alkali.
Hazardous decomposition products
No information available.

11 Toxicological information
Acute toxicity
No information available.
Skin corrosion/irritation
No information available.
Serious eye damage/eye irritation
No information available.
Respiratory sensitization
No information available.
Skin sensitization
Might cause allergic reactions upon inhaling or skin contact because of the contained protein.
Germ cell mutagenicity
No information available.
Carcinogenicity
No information available.
Reproductive toxicity
No information available.
Specific target organ toxicity-single exposure
No information available.
Specific target organ toxicity-repeated exposure
No information available.
Aspiration hazard
No information available.
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12 Ecological information
Ecotoxicity
Persistence and degradability
Bioaccumulative potential
Mobility in soil

No information available.
Components are biodegradable and considered not to remain in the environment for a long time.
Considered to be not bioaccumulative.
No information available.

13 Disposal considerations
Waste from residues
Contaminated container and Contaminated packaging

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.

14 Transport information
International Regulations
Special precautions for user

None specified (Not classified as hazardous goods as per the UN recommendation)
Keep at temperature below -20°C

15 Regulatory information
Regulations

Follow all of laws and regulations in your country.

16 Other information
Notice

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