

Product Name: Glucose oxidase (GLO-101)

First issue: Feb. 10. 2010 Revised: Nov. 27.2023 SDS No.2472F

Safety Data Sheet

1 Chemical Product and Company Identification

Identification of the product Glucose oxidase

Product Code GLO-101

Supplier

Name TOYOBO CO., LTD.

Osaka Umeda Twin Towers South, Address

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

Department Biotechnology Overseas Sales and Marketing Department

+81-6-6348-3846 Phone +81-6-6348-3833 Fax Recommended use and restrictions on use diagnostic product

2 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 Classification not possible

Composition/Information on Ingredients

Substance/Mixture Mixture

Chemical Nature Glucose oxidase Stabilizer, Etc

CAS# 9001-37-0 Concentration or concentration range

ca. 85 % (W/W) ca. 15 % (W/W)

Ingredients Contributing to the Hazard The ingredients known as hazardous are not included.

4 First Aid Measures

Inhalation Remove to fresh air. Consult a physician when unpleasantness occurs.

Wash off with plenty of water. Consult a physician when inflammation on Skin Contact

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.

Fire Fighting Measures

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

Protection of Firefighters Avoid working at leeward.

Accidental Release Measures

Personal Precautions, protective Wear protective gear to avoid eye/skin contact and inhalation. Do not equipment and emergency procedure.

work at leeward.

Environmental Precautions High concentrated waste fluid should not be directly discharged into

rivers.

Methods and materials for containment

and cleaning up.

Clean up the solution spilled with cloth, paper or anything similar to

soak up the solution leaking out of the container.

Handling and Storage

Handling

Wear protective gear to avoid eye/skin contact and inhalation. Technical Measures

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.

Store below $-20^{\circ}\mathrm{C}$ to prevent deactivating. Storage Conditions Use the initial container of the product. Packaging Materials

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.).

Eve Protection Safety goggles.

Skin and Body Protection Long sleeve working wear.



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Physical and Chemical Properties

Physical State

Colour/Odour

nН

Decomposition Temperature

Flash Point Density Solubility

Powder

Yellow /No odour

ca. pH 6.9 when dissolved with water.

No information available. No information available. No information available. Easily soluble in water.

10 Stability and Reactivity

Stability

Stable at temperatures below -20 $^{\circ}$ 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

Conditions to avoid

Materials to avoid

Hazardous Decomposition Products

Not specified.

Prolonged storage at temperatures higher than room temperature and high

humidity.

Any materials which dissolve or destroy proteins such as strong acid or

Might cause allergic reactions upon inhaling or skin contact because of

alkali.

No information available.

No information available.

No information available. No information available.

the protein contained.

No information available.

No information available.

No information available.

No information available.

11 Toxicological Information

Acute Toxicity Skin corrosion/irritation Eve damage/irritation

Sensitization

Germ cell mutagenicity

Carcinogenicity Toxic to reproduction

Specific target organ toxicity

(Single exposure)

Specific target organ systemic toxicity No information available.

(Repeated exposure)

Aspiration toxicity

No information available.

12 Ecological Information

Persistence/Degradability

This product is biodegradable and does not remain on the environment for

13 Disposal Considerations

Waste from 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.

14 Transport Information

International Regulations Domestic Regulations

Specific Precautions

Not applicable. Not applicable.

Keep at temperatures below -20℃.

15 Regulatory Information

Regulations

Follow all of the laws and regulations in your country.

16 Other Information

Notice

The information shall not be taken as being all inclusive and is to be used only 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.