TOYOBO

Glycerol dehydrogenase First issue : Feb. 10, 2012 Revised: May. 31. 2022 SDS No.593F

Safety Data Sheet

1 Product and Company Identification

Product Name Glycerol dehydrogenase

Product Code GYD-301

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

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Recommended use and restrictions on use diagnostic product

2 Hazard Identification

because of the protein contained.

GHS classification Classification not possible

3 Composition/Information on Ingredients

Substance/Mixture Mixture

Chemical Nature Glycerol dehydrogenase

CAS# 9028-14-2 amounts contained ca. 60%(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 Wash 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
Methods for Cleaning up Use cloth, paper or anything similar to soak up the solution leaking out

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.)

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 clothes.

Storage

Technical Measures Keep sealed container in freezer.

Incompatible Products None specified. Storage Conditions Store under -20° C.

Packaging Materials Use the initial container of the product.

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8 Exposure Controls/Personal Protection

Engineering Measures

Set local ventilation equipment.

Personal Protective Equipment

Respiratory Protection

Hand Protection Protecting gloves (rubber or plastic gloves etc.).

Protecting mask.

Eye Protection Safety goggles.

Skin and Body Protection Long sleeve working wear.

9 Physical and Chemical Properties

Physical State Powder

Colour/Odour white/No odour

pH Approximate pH 7.5 in the case of 10 mg/ml in water.

Decomposition Temperature

Flash Point

Density

Solubility

No information available.
No information available.
Easily 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.

Not specified.

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

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.

11 Toxicological Information

Acute Toxicity
Local Effects
Sensitization
Not available.
Not available.

12 Ecological Information

Persistence/Degradability Glycerol dehydrogenase decomposes and does not remain on the environment

for long, since it consists of protein.

13 Disposal Considerations

Waste from Residues Dispose of protein 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 None specified (Not classified as hazardous material as per the UN

recommendation).

Specific Precautions Keep at temperatures below -20°C.

15 Regulatory Information

Regulations None specified.

16 Other Information

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