

Safety Data Sheet

1 Product and Company Identification

Product Name	Glucose-6-phosphate dehydrogenase
Product Code	G6D-311
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

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.

3 Composition/Information on Ingredients

Substance/Mixture	Mixture
Chemical Nature	Glucose-6-phosphate dehydrogenase
CAS#	9001-40-5
amounts contained	ca. 90%(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 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

Provide shower and eyewash equipment nearby.

Personal Protective Equipment

Respiratory Protection

Protecting mask.

Hand Protection

Protecting gloves(rubber or plastic gloves etc.).

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 pH7.5 in the case of 10 mg/ml in water.

Decomposition Temperature

No information available.

Flash Point

No information available.

Density

No information available.

Solubility

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.

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.

11 Toxicological Information

Acute Toxicity

Not classified.

Local Effects

Not available.

Sensitization

Not available.

12 Ecological Information

Persistence/Degradability

Glucose-6-phosphate 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

Notice

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