



Product Name: Glucose-6-phosphate dehydrogenase (G6D-321)

First issue : May. 1. 2014

Revised: May. 31. 2022

SDS No. 869F

Safety Data Sheet

1 Product and Company Identification

Product Name	Glucose-6-phosphate dehydrogenase
Product Code	G6D-321
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
Fax	+81-6-6348-3833
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
Concentration or concentration range	ca. 48%(W/W)
Stabilizer, etc	ca. 52%
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	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.

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	Take up under vacuum using dust collecting filter, wash residual spill with copious amounts of water. Use cloth, paper or anything similar to soak up the solution leaking out of the container. (Waste water should be treated with activated sludge or adsorbed with activated carbon 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.
Storage	
Technical Measures	Keep sealed container in freezer.
Incompatible substances and mixtures	None specified.
Storage Conditions	Store under -20°C to avoid deactivating.
Packaging Materials	Use the initial container of the product.

8 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.).
Eye Protection	Safety goggles.
Skin and Body Protection	Long sleeve working wear.



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9 Physical and Chemical Properties

Physical State	Powder
Colour/Odour	White/No odour
pH	Approximate pH 7.5 (1% W/V)
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. When left for long at room temperature, proteins might be degraded, which does not cause any hazardous reaction.
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	No information available.
Skin corrosion/irritation	No information available.
Eye damage/irritation	No information available.
Sensitization	Might cause allergic reactions upon inhaling or skin contact because of the protein contained.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Toxic to reproduction	No information available.
Specific target organ toxicity (Single exposure)	No information available.
Specific target organ systemic toxicity (Repeated exposure)	No information available.
Aspiration toxicity	No information available.

12 Ecological Information

Persistence/Degradability	long.
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13 Disposal Considerations

Residues	Dispose 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).
Domestic Regulations	None specified.
Specific Precautions	Keep at temperatures below -20°C.

15 Regulatory Information

Regulations	Follow all of the laws and regulations in your country.
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16 Other Information

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