

Safety Data Sheet

1 Product and Company Identification

Product Name	Glycerol kinase
Product Code	GYK-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
Phone	+81-6-6348-3846
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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	Glycerol kinase
CAS#	-
Concentration or concentration range	ca. 60%(W/W)
Stabilizer, etc	ca. 40%
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
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 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.).



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Eye Protection
 Skin and Body Protection

Safety goggles.
 Long sleeve working wear.

9 Physical and Chemical Properties

Physical State
 Colour/Odour
 pH
 Decomposition Temperature
 Flash Point
 Density
 Solubility

Powder
 White/No odour
 ca. pH7.5 (1% W/V)
 No information available.
 No information available.
 No information available.
 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
 Skin corrosion/irritation
 Eye damage/irritation
 Sensitization

 Germ cell mutagenicity
 Carcinogenicity
 Toxic to reproduction
 Specific target organ toxicity
 (Single exposure)
 Specific target organ systemic toxicity
 (Repeated exposure)
 Aspiration toxicity

No information available.
 No information available.
 No information available.
 Might cause allergic reactions upon inhaling or skin contact because of the protein contained.
 No information available.
 No information available.
 No information available.
 No information available.
 No information available.
 No information available.

12 Ecological Information

Persistence/Degradability

long.

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.



Product Name: Glycerol kinase (GYK-311)

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16 Other Information

Notice

Safety Data Sheet

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.