

β-Galactosidase (GAH-201) First issue : May. 1. 2014 Reviced: May. 31. 2022 SDS No.2112F

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# **Safety Data Sheet**

### 1 Chemical product and company identification

Identification of the product Product Code SUPPLIER Name  $\beta$  -Galactosidase GAH-201

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
Telephone No.	+81-6-6348-3846
Fax No.	+81-6-6348-3833
Recommended uses and restrictions on use	diagnostic product

#### 2 Hazards identification

Important hazards

The product might cause allergic reactions upon inhaling or skin contact because of the protein contained. Classification not possible

GHS classification

#### **3** Composition/information on ingredients

Chemical product (a substance or a mixture)	Mixture
(Substance)	
Systematic chemical name	eta-Galactosidase
CAS No.	9031-11-2
concentration or concentration ranges	ca. 70%(W/W)

#### 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.
Ingestion	Continue rinsing. Swill plentiful amount of water or milk for immediate vomiting, consult a physician.

## **5** Fire-fighting measures

Extinguishing media	Water spray, foam, dry chemical powder, or carbon dioxide etc.
Specific hazards	No information available.
Specific extinguishing methods	Fire-fighting is done from the windward side.
Precautions for fire-fighters (special protective	In case of large fires, wear respiratory
equipment>	protection.

#### 6 Accidental release measures

# **TOYOBO**

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## Safety Data Sheet Personal precautions, protective equipment, and Wear protective gear to avoid eye/skin contact

and inhalation. Collection work is done from the emergency procedure windward side. High concentrated waste fluid should not be Environmental precautions directly discharged into rivers. Methods and materials for containment and Use cloth, paper or anything similar to soak up the solution leaking out of the container. Take methods and materials for cleaning up 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  $\langle \text{precautions for safe handling} \rangle$ **Technical measures** Wear protective gear to avoid eye/skin contact and inhalation. Precautions (local/total ventilation) Do not drop the container to prevent the content popping out. Storage  $\langle \text{conditions for safe storage} \rangle$ Technical measures Keep sealed container in freezer and store under

#### 8 Exposure controls and personal protection

Engineering controlsProvide eye washing apparatus nearby.Personal protective equipment<br/>Respiratory protectionDust mask<br/>Protecting gloves (rubber or plastic gloves etc.)Eye protectionSafety goggles<br/>Long sleeve working wear

#### 9 Physical and chemical properties

Physical State, Form, Colour	Powder / White
Odour	No odour
рН	ca. pH7.0 (1% W/V)
Flash point	No information available.
Explosiveness	No information available.
Density/relative density	No information available.
Solubility(ies)	Easily soluble in water.



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# **Safety Data Sheet**

#### **10** Stability and reactivity

Chemical stability and hazardous reactions

Conditions to Avoid

Incompatible materials

Hazardous decomposition products

#### **11** Toxicological information

Acute toxicity Skin irritation/corrosion Eye damage/irritation Respiratory or skin sensitization

Reproductive cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity-single exposure Specific target organ toxicity-repeated exposure No information available. Aspiration hazard

#### **12 Ecological information**

Ecotoxicity		No information available.
Persistence and degrad	ability	This product is biodegradable and does not remain
-		on the environment for long.
Bioaccumulative poten	tial	Considered to be not bioaccumulative.
Mobility in soil		No information available.
*		

#### **13 Disposal considerations**

Waste from residues

Contaminated container and Contaminated packaging

#### **14 Transport information**

International Regulations

Specific precautions transport measures and conditions

Stable at temperatures below -20°C. When left for long at room temperature, proteins might be degraded, which does not cause any hazardous Prolonged storage at temperatures higher than room temperature and high humidity. Any materials which dissolve or destroy proteins such as strong acid or alkali.

No information available.

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.

Dispose of in accordance with all applicable local and national laws and regulations.

Wash with copious amounts of water and waste conforming to local regulations depending on the type of the material.

None specified (Not classified as hazardous goods as per the UN recommendation) Keep at temperatures below -20°C.

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# **Safety Data Sheet**

## **15 REGULATORY INFORMATION**

Regulations

Follow all of laws and regulaitos in your

#### **16 OTHER INFORMATION**

Notice

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