

Skin and Body Protection

Product Name: Invertase (IVH-101) First issue : Apr. 25. 2012 Revised : May. 31. 2022 SDS No. 625F

#### 1 Chemical Product and Company Identification Invertase Identification of the product Product Code TVH-101 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 +81-6-6348-3833 Fax 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 Invertase CAS# 9001-57-4 ca. 30 % (W/W) Concentration or concentration range Stabilizer, etc ca. 70 % (W/W) Ingredients Contributing to the Hazard The ingredients known as hazardous are not included. 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. Accidental Release Measures 6 Personal Precautions, protective Wear protective gear to avoid eye/skin contact and inhalation. Do not equipment and emergency procedure. work at leeward. Environmental Precautions High concentrated waste fluid should not be directly discharged into rivers. Methods and materials for containment Clean up the solution spilled with cloth, paper or anything similar to and cleaning up. soak up the solution leaking out of the container. 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 below -20°C to prevent deactivating. Packaging Materials Use the initial container of the product. Exposure Controls/Personal Protection 8 Engineering Measures Provide shower and eye washing apparatus nearby. Personal Protective Equipment Respiratory Protection Protecting mask. Protecting gloves (rubbers or plastic gloves etc.). Hand Protection Eye Protection Safety goggles.

Safety Data Sheet

Long sleeve working wear.

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# 9 Physical and Chemical Properties

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

## 10 Stability and Reactivity

Stability

Possible hazard reactions at specifi condition Conditions to avoid

Materials to avoid

Hazardous Decomposition Products

### 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

### 12 Ecological Information

Persistence/Degradability

## 13 Disposal Considerations

Residues

Contaminated packaging

### 14 Transport Information

International Regulations Domestic Regulations Specific Precautions

#### 15 Regulatory Information Regulations

# 16 Other Information Notice

Notice

### Safety Data Sheet

ical Properties	
	Powder White /No odour ca. pH 5.0 in the case of 10mg/ml in water.
rature	No information available. No information available. No information available. Easily soluble in water.
ctivity	
,	Stable at temperatures below -20°C.When left for long at room temperature, proteins might be degraded, which does not cause any hazardous reaction.
ctions at specific	
	Not specified.
id	Prolonged storage at temperatures higher than room temperature and high humidity.
d	Any materials which dissolve or destroy proteins such as strong acid or alkali.
sition Products	No information available.
ormation	
	No information available.
tation	No information available.
on	No information available.
	Might cause allergic reactions upon inhaling or skin contact because of the protein contained.
ity	No information available.
	No information available.
on	No information available.
an toxicity	No information available.
an systemic toxicity	No information available.
	No information available.
ation	
bility	This product is biodegradable and does not remain on the environment for long.
ations	
	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.

Not applicable. Not applicable. Keep at temperatures \*\*\*°C.

Follow all of the laws and regulations in your country.

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.