

# Safety Data Sheet

#### 1 Chemical Product and Company Identification

Identification of the product

Product Code

Supplier Name

Address

Cholesterol esterase COE-313

TOYOBO CO., LTD. Osaka Umeda Twin Towers South, 1-13-1 Umeda Kita-ku, Osaka 530-0001, Japan

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

GHS classification

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

#### 3 Composition/Information on Ingredients

	Substance/M1xture	Mixture
	Chemical Nature	Cholesterol esterase
	CAS#	9026-00-0
	Concentration or concentration range	ca. 24%
	Stabilizer, etc	ca. 76%
	Ingredients Contributing to the Hazard	
	Common Chemical name	Polyethylene Glycol-p-octylphenyl Ether (Triton X-100)
	Concentration or concentration range	ca 0.3% (W/W)
	Chemical formula	$C_8H_{17}-C_6H_4O(C_2H_4O)nH$
	CAS#	9002-93-1
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 several minutes or
	<b>T</b>	longer immediately, consult a physician afterwards.
	Ingestion	Swill plentiful amount of water or milk for immediate
		vomiting, consult a physician.
5	Fire Fighting Measures	
U	Extinguishing Media	Water spray, dry chemical powder, or carbon dioxide etc.
	Protection of Firefighters	Avoid working at leeward.
	0	0
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	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.)
		be treated with activated Sindge etc./

1/3



Product Name: Cholesterol esterase (COE-313) First issue : May. 1. 2014 Revised: May. 31. 2022 SDS No.1018F

# Safety Data Sheet

Handling and Storage 7

Handling

Technical Measures

Precautions Safe Handling Advice

## Storage

Technical Measures Incompatible Products Storage Conditions Packaging Materials

Wear protective gear to avoid eye/skin contact and inhalation. Do not drop the container to prevent the content popping out. None specified. Wear protective gear, avoiding contact on eye, skin and cloths.

Keep sealed container in freezer. None specified. Store under −20°C. Use the initial container of the product.

### 8 Exposure Controls/Personal Protection

Engineering Measures Personal Protective Equipment Respiratory Protection Hand Protection Eye Protection Skin and Body Protection

### 9 Physical and Chemical Properties

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

## 10 Stability and Reactivity

Stability

Possible hazard reactions at specific 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)

Set local ventilation equipment.

Protecting mask. Protecting gloves (rubbers or plastic gloves etc.). Safety goggles. Long sleeve working wear.

#### Powder

Light brown/No odour Approximate pH7.5 in the case of 10 mg/ml in water. No information available. No information available. No information available. Easily soluble in water.

Stable at temperatures below -20℃. Proteins, when left for long at room temperature, might be degraded, which does not cause any hazardous reaction though.

Not specified. Prolonged storage under higher temperature than room temperature and high humidity. Any materials which dissolve or destroy proteins such as strong acid or alkali. No information available.

It is considered that acute toxicity is extremely low. 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.

2/3



Product Name: Cholesterol esterase (COE-313) First issue : May. 1. 2014 Revised: May. 31. 2022 SDS No.1018F

# Safety Data Sheet

No information available.

# 12 Ecological Information

Aspiration toxicity

Acute hazards to the aquatic environment Persistence /Degradability

Polyethylene Glycol-p-octylphenyl Ether (Triton X-100) LC50/96hr = 3mg/L (bluegill) Not rapidly biodegradable substance: 22% by BOD (National Institute of Technology and Evaluation, Japan) Enzyme and other organic ingredients are biodegradable and does not remain on the environment for long.

### 13 Disposal Considerations

Waste from Residues

Contaminated packaging

### 14 Transport Information

International Regulations

Specific Precautions

**15 Regulatory Information** REACH(EU)

Regulations

# 16 Other Information

Notice

Dispose of protein 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

None specified (Not classified as hazardous material as per the UN recommendation). Keep at temperatures below  $-20^{\circ}$ C.

SVHC: Polyethylene Glycol-p-octylphenyl Ether (Triton X-100) Follow all of laws and regulations in your country.

The contents specified here is made based on the documents, information or data which are currently available and subject to revision in the future. TOYOBO makes no warranty and assumes no liability whatsoever in connection with any use of this information.

#### 3/3