TOYOBO

Lipoprotein lipase
First issue : Jan. 19. 2011
Revised : May. 31. 2022
MSDS No.407F

Safety Data Sheet

1 Chemical Product and Company Identification

Identification of the product	Lipoprotein lipase
Product Code	LPL-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
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/Preparation	Preparation
Chemical Nature	Lipoprotein lipase
CAS#	9004-2-8
amounts contained	ca. 30%(W/W)
Ingredients Contributing to the Hazard	
Common Chemical name	Polyethylene glycol p-octylphenyl ether 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated
Synonyms	Triton X-100
EC No.	618-344-0
CAS No.	9002-93-1
Concentration or concentration range	ca 2.0% (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	Wash off with running water for 15 minutes or longer immediately, consult a physician afterwards.
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	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.)

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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.
Safe Handling Advice	Wear protective gear, avoiding contact on eye,skin and cloths.

Storage

Technical Measures	Keep sealed container in freezer.
Incompatible Products	None specified.
Storage Conditions	Store under -20℃.
Packaging Materials	Use the initial container of the product.

8 Exposure Controls/Personal Protection

Engineering Measures	Set local ventilation equipment.
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.

9 Physical and Chemical Properties

Physical State	Powder
Colour/Odour	Light brown/No odour
pH	Approximate pH7.5 in the case of 10 mg/ml in water.
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℃. Proteins, when left for long at room temperature, might be degraded, which does not cause any hazardous reaction though.
Possible hazard reactions at specific condition	Not specified.
Conditions to avoid	Prolonged storage under higher temperature 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	Not available.
Local Effects	Not available.
Sensitization	Not available.

12 Ecological Information

Persistence/Degradability	Lipoprotein lipase decomposes and does not remain on the environment for long, since it consists of protein.

13 Disposal Considerations

Waste from Residues	Dispose of protein 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

14 Transport Information

International Regulations	None specified (Not classified as hazardous material as per the UN recommendation).
Specific Precautions	Keep at temperatures below -20℃.

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15 Regulatory Information

For Customers in the European Economic Area	"REACH Regulation - SVHC: Polyethylene glycol p-octylphenyl ether is included in the Authorization list (Annex XIV). The substance is necessary to stabilize the Lipoprotein lipase. As an additive, it is therefore considered part of the enzyme according to the substance definition under REACH (Art. 3(1)) and is not subject to authorisation (acc. To ECHA FAQ 0565)."

16 Other Information

Notice	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.