TOYOBO

Lipoprotein lipase (LPL-314) First issue: Feb. 10, 2012 Revised: May. 31. 2022

SDS No.1019F

Safety Data Sheet

1 Chemical Product and Company Identification

Identification of the product Lipoprotein lipase

Product Code LPL-314

Supplier

Name TOYOBO CO., LTD

Osaka Umeda Twin Towers South, Address

1-13-1 Umeda Kita-ku, Osaka 530-0001, Japan

Biotechnology Overseas Sales and Marketing Department Department

Phone +81-6-6348-3846 Fax +81-6-6348-3833 Recommended use and restrictions on use diagnostic product

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

Composition/Information on Ingredients

Substance/Mixture

Chemical Nature Lipoprotein lipase

9004-02-8 CAS# Concentration or concentration range ca. 24% ca. 76% Stabilizer, etc

Ingredients Contributing to the Hazard

Common Chemical name

Concentration or concentration range

Chemical formula

 $C_8H_{17}-C_6H_4O(C_2H_4O)nH$

9002-93-1 CAS#

4 First Aid Measures

Ingestion

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

ca 0.3% (W/W)

longer immediately, consult a physician afterwards. Swill plentiful amount of water or milk for immediate

Polyethylene Glycol-p-octylphenyl Ether (Triton X-100)

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

Wear protective gear to avoid eye/skin contact and Personal Precautions

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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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° C.

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.

Long sleeve working wear. Skin and Body Protection

9 Physical and Chemical Properties

Physical State Powder

Colour/Odour Light brown/No odour

Approximate pH7.5 in the case of 10 mg/ml in water.

Decomposition Temperature No information available. No information available. Flash Point No information available. Density Solubility Easily soluble in water.

10 Stability and Reactivity

Stable at temperatures below -20℃. Proteins, when left Stability for long at room temperature, might be degraded, which

Not specified.

does not cause any hazardous reaction though.

Possible hazard reactions at specific

condition

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

Germ cell mutagenicity

It is considered that acute toxicity is extremely low. Acute Toxicity

Skin corrosion/irritation No information available. Eye damage/irritation No information available.

Might cause allergic reactions upon inhaling or skin Sensitization

No information available.

Carcinogenicity No information available. Toxic to reproduction No information available.

Specific target organ toxicity No information available. **TOYOBO**

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(Single exposure)

Specific target organ systemic toxicity

(Repeated exposure)

Aspiration toxicity

No information available.

No information available.

12 Ecological Information

Acute hazards to the aquatic environment $% \left(x\right) =\left(x\right) +\left(x\right) +\left$

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)

 ${\tt Enzyme} \ \ {\tt and} \ \ {\tt other} \ \ {\tt organic} \ \ {\tt ingredients} \ \ {\tt are} \ \ {\tt biodegradable} \ \ {\tt and}$

does not remain on the environment for long.

13 Disposal Considerations

Waste from Residues Contaminated packaging Dispose of protein in accordance with all applicable Wash with copious amounts of water and waste conforming to local regulations depending on the type of the

14 Transport Information

International Regulations

Specific Precautions

None specified (Not classified as hazardous material as

per the UN recommendation).

Keep at temperatures below -20° C.

15 Regulatory Information

REACH (EU)

Regulations

SVHC: Polyethylene Glycol-p-octylphenyl Ether (Triton X-100)

Follow all of laws and regulations in your country.

16 Other Information

Notice

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