TOYOBO

Catalase (CAO-519) First issue: Oct. 27, 2015 Revised: May. 31. 2022 SDS No. 1134F

Safety Data Sheet

Chemical Product and Company Identification

Identification of the product Catalase Product Code CAO-519

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

+81-6-6348-3846 Phone +81-6-6348-3833 Fax 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 Mixture Chemical Nature Catalase CAS# 9001-05-2 ca. 0.6 % (W/V) Concentration or concentration range

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.

6 Accidental Release Measures

Personal Precautions, protective equipment and emergency procedure.

Environmental Precautions

Methods and materials for containment

and cleaning up.

Wear protective gear to avoid eye/skin contact and inhalation. Do not

work at leeward.

High concentrated waste fluid should not be directly discharged into Clean up the solution spilled with cloth, paper or anything similar to

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. Precautions Do not drop the container to prevent the content popping out.

Storage

Technical Measures Keep sealed container in freezer

Incompatible substances and mixtures None specified.

Storage Conditions Store at 2-8 $^{\circ}$ C to prevent deactivating. Use the initial container of the product. Packaging Materials

Exposure Controls/Personal Protection

Provide shower and eye washing apparatus nearby. Engineering Measures

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

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Physical and Chemical Properties

Physical State Liquid

Colour/Odour Gray-brown /No odour

рΗ pH 7.0 \pm 0.5

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

10 Stability and Reactivity

Stable at 2-8 $^{\circ}\text{C}$. When left for long at room temperature, proteins might Stability

be degraded, which does not cause any hazardous reaction.

Possible hazard reactions at specific

Conditions to avoid Prolonged storage at temperatures higher than room temperature and high

humidity.

Not specified.

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

Sensitization Might cause allergic reactions upon inhaling or skin contact because of

the protein contained.

Germ cell mutagenicity No information available. Carcinogenicity No information available. Toxic to reproduction No information available. Specific target organ toxicity No information available.

(Single exposure)

Specific target organ systemic toxicity No information available.

(Repeated exposure)

Aspiration toxicity No information available.

12 Ecological Information

Persistence/Degradability This product is biodegradable and does not remain on the environment for

13 Disposal Considerations

Residues Dispose of 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 material.

14 Transport Information

International Regulations Not specified (Not classified as hazardous material as per the UN

recommendation).

15 Regulatory Information

Follow all of the laws and regulations in your country. Regulations

16 Other Information

Notice

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.