Safety Data Sheet

1 Chemical product and company identification
Identification of the product
Product Code
SUPPLIER
Name
Address
Telephone No.
Fax No.
Recommended uses and restrictions on use
diagnostic product

2 Hazards identification
Important hazards
GHS classification
Label elements

3 Composition/information on ingredients
Chemical product (a substance or a mixture)
Mixtures
Hazardous ingredients (>cut-off levels of GHS)
Chemical identity
Concentration or concentration range

4 First-aid measures
Inhalation
Skin contact
Eye contact
Ingestion

5 Fire-fighting measures
Extinguishing media
Precautions for fire-fighters (special protective equipment)

6 Accidental release measures
Personal precautions, protective equipment, and emergency procedures
Environmental precautions

The product might cause allergic reactions upon inhaling or skin contact because of the protein contained.
Classification not possible
None
Diaphorase
Mixture
Diaphorase
9001-68-7
ca. 50 – 80 %(W/W)
Remove to fresh air. Consult a physician when unpleasantness occurs.
Wash off with plenty of water. Consult a physician when inflammation on the skin occurs.
Wash off with running water for several minutes immediately, consult a physician afterwards.
Swill plentiful amount of water or milk for immediate vomiting, consult a physician.
Water spray, dry chemical powder, or carbon dioxide etc.
Avoid working at leeward.
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 rivers.
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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.)

7 Handling and storage
Handling (precautions for safe 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 (local/total ventilation)
None specified.

Prevention of contact
Wear protective gear, avoiding contact on eye, skin and cloths.

Storage (conditions for safe storage)
Technical measures
Keep sealed container in freezer. Store under -20℃.

(suitable storing conditions and unsuitable storing conditions)

Incompatible substances and mixtures
None specified.

Packaging Materials
Use the initial container of the product.

8 Exposure controls and personal protection
Permissible concentration
Occupational exposure limit, biological limit
Engineering controls
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, Form, Colour
Solid

Odour
Light yellow / No odour

pH
Approximate pH 6.5~7.5 in the case of 100 mg/ml in water.

Flash point
No information available.

Density/relative density
No information available.

Solubility(ies)
Easily soluble in water.

Decomposition temperature
No information available.

10 Stability and reactivity
Chemical stability and hazardous reactions
Stable at temperatures below -20℃. Proteins, when left for long at room temperature, might be degraded, which does not cause any hazardous reaction though. Prolonged storage under higher temperature than room temperature and high humidity.

Conditions to Avoid
Any materials which dissolve or destroy proteins such as strong acid or alkali.
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Hazardous decomposition products: No information available.

11 Toxicological information

Acute toxicity: Not available.
Skin irritation/corrosion: Not available.
Eye damage/irritation: Not available.
Respiratory or skin sensitization: Not available.
Reproductive cell mutagenicity: Not available.
Carcinogenicity: Not available.
Reproductive toxicity: Not available.
Specific target organ toxicity-single exposure: Not available.
Specific target organ toxicity-repeated exposure: Not available.
Aspiration hazard: Not available.

12 Ecological information

Ecotoxicity
Persistence and degradability: The product decomposes and does not remain on the environment for long, since it mainly consists of protein.

13 Disposal considerations

Waste from residues
Dispose of protein in accordance with all applicable local and national laws and regulations.

Contaminated container and 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
None specified (Not classified as hazardous material as per the UN recommendation).

15 REGULATORY INFORMATION

(The names of laws, the regulation labelling) None specified.

16 OTHER INFORMATION

(Specific training, recommended use, possible restrictions) The contents specified here are made based on the documents, information or data which is 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.