1 Chemical product and company identification

Identification of the product: β-Galactosidase

SUPPLIER
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Recommended uses and restrictions on use: diagnostic product

2 Hazards identification

Important hazards: 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

Chemical product (a substance or a mixture): Mixture

Systematic chemical name: β-Galactosidase
CAS No.: 9031-11-2
Concentration or concentration ranges: ca. 70%(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: 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, foam, dry chemical powder, or carbon dioxide etc.

Specific hazards: No information available.
Specific extinguishing methods: Fire-fighting is done from the windward side.
Precautions for fire-fighters (special protective equipment): In case of large fires, wear respiratory protection.
6 Accidental release measures
Personal precautions, protective equipment, and emergency procedure
Wear protective gear to avoid eye/skin contact and inhalation. Collection work is done from the windward side.

Environmental precautions
High concentrated waste fluid should not be directly discharged into rivers.

Methods and materials for containment and methods and materials 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.)

7 Handling and storage
Handling (precautions for safe handling)
Wear protective gear to avoid eye/skin contact and inhalation.

Precautions (local/total ventilation)
Do not drop the container to prevent the content popping out.

Storage (conditions for safe storage)
Keep sealed container in freezer and store under -20℃.

(suitable storing conditions and unsuitable storing conditions)
None specified.

Incompatible substances and mixtures
Store under -20℃ to avoid deactivating.

Storage Conditions
Use the initial container of the product.

8 Exposure controls and personal protection
Engineering controls
Provide eye washing apparatus nearby.

Personal protective equipment
Dust mask

Hand protection
Protecting gloves (rubber 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
Powder / White

Odour
No odour

pH
ca. pH7.0 (1% W/V)

Flash point
No information available.

Explosiveness
No information available.

Density/relative density
No information available.

Solubility(ies)
Easily soluble in water.
Safety Data Sheet

10 Stability and reactivity
Chemical stability and hazardous reactions

Stable at temperatures below -20°C. When left for long at room temperature, proteins might be degraded, which does not cause any hazardous reaction.

Conditions to Avoid
Prolonged storage at temperatures higher than room temperature and high humidity.

Incompatible materials
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 irritation/corrosion
No information available.

Eye damage/irritation
Might cause allergic reactions upon inhaling or skin contact because of the protein contained.

Respiratory or skin sensitization
No information available.

Reproductive cell mutagenicity
No information available.

Carcinogenicity
No information available.

Reproductive toxicity
No information available.

Specific target organ toxicity-single exposure
No information available.

Specific target organ toxicity-repeated exposure
No information available.

Aspiration hazard
No information available.

12 Ecological information

Ecotoxicity
No information available.

Persistence and degradability
This product is biodegradable and does not remain on the environment for long. Considered to be not bioaccumulative.

Bioaccumulative potential
No information available.

Mobility in soil
No information available.

13 Disposal considerations

Waste from residues
Dispose of 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 goods as per the UN recommendation)

Specific precautions transport measures and conditions
Keep at temperatures below -20°C.

15 REGULATORY INFORMATION
Safety Data Sheet

Regulations

Follow all of laws and regulations in your country.

16 OTHER INFORMATION

Notice

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