1 Chemical Product and Company Identification

Identification of the product: Hexokinase
Product Code: HXK-311
Supplier:
Name: TOYOBO CO., LTD.
Address: 2-8, Dojima Hama 2-chome, Kita-ku, Osaka 530-8230, Japan
Department: Biotechnology Overseas Sales and Marketing Department
Phone: +81-6-6348-3843
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/Mixture: Mixture
Chemical Nature: Hexokinase
CAS#: 9001-51-8
Concentration or concentration range: ca. 46 % (W/W)
Stabilizer, etc: ca. 54 % (W/W)

The ingredients known as hazardous are not included.

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: Wear protective gear to avoid eye/skin contact and inhalation. Do not work at leeward.

Incompatible substances and mixtures: High concentrated waste fluid should not be directly discharged into rivers.

Methods and materials for containment and cleaning up:
Methods and materials for containment and cleaning up:
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 under -20℃ to prevent deactivating.
Packaging Materials: Use the initial container of the product.

8 Exposure Controls/Personal Protection

Engineering Measures: Provide shower and eye washing apparatus nearby.
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.
Safety Data Sheet

9 Physical and Chemical Properties

Physical State  Powder
Colour/Odour    White/No odour
pH              ca. pH 7.5 in the case of 10mg/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°C. When left for long at room temperature, proteins might be degraded, which does not cause any hazardous reaction.
Possible hazard reactions at specific condition  Not specified.
Conditions to avoid  Prolonged storage at temperatures higher 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  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  (Single exposure) No information available.
Specific target organ systemic toxicity  (Repeated exposure) No information available.
Aspiration toxicity  No information available.

12 Ecological Information

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

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 applicable.
Domestic Regulations     Not applicable.
Specific Precautions     Keep at temperatures below -20°C.

15 Regulatory Information

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

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.