1 Chemical Product and Company Identification
Identification of the product
Product Code
Supplier
Name
Address
Department
Phone
Fax
Recommended use and restrictions on use diagnostic product

2 Hazard Identification
Most Important Hazards and Effects
GHS classification
Classification not possible

3 Composition/Information on Ingredients
Substance/Mixture
Chemical Nature
CAS# 9026-00-0
Concentration or concentration range ca. 24%
Stabilizer, etc ca. 76%
Ingredients Contributing to the Hazard
Common Chemical name Polyethylene Glycol-p-octylphenyl Ether (Triton X-100)
Concentration or concentration range ca. 0.3% (W/W)
Chemical formula C₈H₁₇-C₆H₄O(C₂H₄O)nH
CAS# 9002-93-1

4 First Aid Measures
Inhalation
Skin Contact
Eye Contact
Ingestion
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 or longer immediately, consult a physician afterwards.
Swill plentiful amount of water or milk for immediate vomiting, consult a physician.

5 Fire Fighting Measures
Extinguishing Media
Protection of Firefighters
Water spray, dry chemical powder, or carbon dioxide etc.
Avoid working at leeward.

6 Accidental Release Measures
Personal Precautions
Environmental Precautions
Methods for 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 rivers.
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

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℃.

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.

Skin and Body Protection
Long sleeve working wear.

9 Physical and Chemical Properties

Physical State
Powder

Colour/Odour
Light brown/No odour

pH
Approximate pH 7.5 in the case of 10 mg/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℃. Proteins, when left for long at room temperature, might be degraded, which does not cause any hazardous reaction though.

Possible hazard reactions at specific condition
Not specified.

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

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

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
Polyethylene Glycol-p-octylphenyl Ether (Triton X-100)
Acute hazards to the aquatic environment: LC50/96hr = 3mg/L (bluegill)
Persistence/Degradability: Not rapidly biodegradable substance: 22% by BOD (National Institute of Technology and Evaluation, Japan)
Enzyme and other organic ingredients are biodegradable and does not remain on the environment for long.

13 Disposal Considerations
Waste from Residues: Dispose of protein 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: None specified (Not classified as hazardous material as per the UN recommendation).
Specific Precautions: Keep at temperatures below -20°C.

15 Regulatory Information
REACH (EU): SVHC: Polyethylene Glycol-p-octylphenyl Ether (Triton X-100)
Regulations: Follow all of laws and regulations in your country.

16 Other Information
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