

MATERIAL SAFETY DATA SHEET (MSDS)

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identity

Product name: Recombinant Fusion Protein.

1.2 Identified uses and uses advised against

Identified uses: For research use only.

Not for use in animals or humans.

1.3 Details of the supplier of the safety datasheet

Supplier: Proteintech Group Inc.
2201 W. Campbell Park Drive
Chicago, IL
60612
USA

Tel: +1-312-455-8498
Web: www.ptqlab.com
Email: Proteintech@ptqlab.com

Section 2: COMPOSITION/INFORMATION ON INGREDIENTS

2.1 Composition

| | | |
|---------------------------|------|----------------|
| Sodium Chloride | < 1% | Cas# 7647-14-5 |
| Monosodium phosphate | < 1% | Cas# 7758-80-7 |
| Sodium phosphate, Dibasic | < 1% | Cas# 7558-79-4 |
| Trehalose | 5-8% | Cas# 99-20-7 |
| Mannitol | 5-8% | Cas# 87-78-5 |
| Imidazole | < 1% | Cas# 288-32-4 |
| Glutathione | < 1% | Cas# 70-18-8 |

2.2 Hazardous ingredients

This product contains no hazardous ingredients.

Section 3: FIRST-AID MEASURES

| | |
|--------------|---|
| Skin Contact | Promptly wash contaminated skin thoroughly with soap and water. Promptly remove clothing if soaked through and wash skin with water. |
| Eye Contact | Promptly wash eyes with plenty of water lifting the eyelid(s). Make sure to remove any contact lenses. Continue rinsing eye(s) for at least 15 minutes. |
| Inhalation | Move person to area of exposure to fresh air, encourage them to rest and keep warm. |
| Ingestion | Rinse mouth thoroughly with water. Never make an unconscious person vomit or drink fluids. If ingestion has resulted in loss of consciousness seek medical help. |

NB: Seek medical attention if any discomfort persists after carrying out the procedures above.

Section 4: FIRE FIGHTING MEASURES:

This product is not flammable.

Suitable extinguishing media: Use fire-extinguishing media appropriate for the surrounding materials e.g. water, carbon dioxide spray, foam.

Section 5: ACCIDENTAL RELEASE MEASURES:

5.1 Personal precautions and protective equipment

Use protective gloves, goggles and suitable protective clothing.

5.2 Environmental precautions

Do not allow to enter drains, sewers or watercourses.

5.3 Methods and materials for containment

and clearing up.

Absorb spillage with suitable absorbent material and dispose by approved routes, avoiding contamination of water sources or drains. Wash site of spillage thoroughly with water and detergent.

Section 6: HANDLING AND STORAGE

6.1 Precautions for safe handling

Avoid spilling, skin and eye contact. Wear a lab coat.

Only handle the powdered product in well ventilated areas.

6.2 Conditions of safe storage

Keep container tightly closed.

Store the product in a dry, well-ventilated area, at room temperature.

Or store the product at -20 °C.

Section 7: EXPOSURE CONTROLS /PERSONAL PROTECTIVE EQUIPMENT (PPE)

Follow good laboratory practice when handling this product.

The following PPE and precautionary measures are recommended:

- Eye protection: Laboratory safety goggles
- Hands: Chemical resistant gloves
- Skin: Laboratory protective clothing
- Respiratory system: Fume hood or use in areas with adequate ventilation.

Section 8: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Powder

Color: Varying

Odor: None

Solubility: Soluble in water

Section 9: CHEMICAL STABILITY AND REACTIVITY

Stability: Stable under normal temperature and conditions.

Conditions to avoid: None known.

Incompatibility: None known.

Hazardous Polymerization: None.

Section 10: TOXICOLOGICAL INFORMATION

May be harmful if inhaled or absorbed through the skin.

May be harmful if swallowed.

May cause irritation to mucous membranes and the upper respiratory tract.

May cause eye/skin irritation.

Carcinogenic effects: Not available.

Mutagenic effects: Not available.

Reproduction toxicity: Not available.

Teratogenic effects: Not available.

Section 11: ECOLOGICAL INFORMATION

There are no data on the ecotoxicity of this product.

Section 12: DISPOSAL CONSIDERATIONS

Dispose of waste in accordance with local authority and national regulations.

Section 13: TRANSPORT INFORMATION

The product is not classified as dangerous goods and free of transport regulations imposed on such materials.

Section 14: OTHER PRECAUTIONS

The product should only be used by trained personnel. Proteintech Group, Inc. shall not be held liable for any damage resulting from mishandling, misuse or contact with the product. All information is correct at the time of publication.

Material Safety Data Sheet.

Date of document preparation: March 2007

Revised: September 2014