

SAFETY DATA SHEET (SDS)

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: Extra Range Prestained Protein Marker
Cat No.: PL00003

Chemical Name: Not applicable

REACH registration number: No registration number is given yet for this substance / substances in this mixture since the annual import quantity is less than one tonnage per annum or the transition period for its registration according to Article 23 of REACH has not yet expired.

Company/undertaking Identification:

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Emergency telephone number:
312-455-8498

2. HAZARDOUS IDENTIFICATION:

GHS label elements

Pictogram: None

Signal word: None

Hazard statements: None

Precautionary statements: None

3. INGREDIENT COMPOSITION/INFORMATION:

Mixture of the substances listed below, and additional trade secret chemicals.

Glycerol	10-25 %	56-81-5
Sodium dodecyl sulfate	1-3 %	51-21-3
Urea	< 25 %	57-13-6
Tris-phosphate	1-2 %	6992-39-8

Components not listed here are not dangerous or their concentrations do not exceed the limits specified in the EU directive 1272/2008/EC.

4. FIRST AID MEASURES:

General Advice	Consult a physician. Show this Safety Data Sheet to the doctor in attendance.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Rinse with disinfectant cleaner. If symptoms persist, consult a physician.
Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	If inhaled move victim to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen and call physician. If warranted, seek medical attention. If possible, save sample of material that caused reaction for use in determination of appropriate treatment.

Ingestion
Flush out mouth with water. If material has been swallowed give water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute, and delayed
Potential acute health effects
Skin contact: None

Over-exposure signs/symptoms

Skin contact: Repeated contact may cause allergic reactions in very susceptible persons. Avoid Repeat exposure
Ingestion: Repeated ingestion may cause damage to organs.

Indication of immediate medical attention and special treatment needed, if necessary
Notes to physician: None.

Specific treatments: No specific treatment.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

5. FIRE FIGHTING MEASURES:

Suitable extinguishing media: Use a water spray, CO₂, or dry powder.

Unsuitable extinguishing media: No information available

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment, and emergency procedures:

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Put on appropriate personal protective equipment.

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air).

Methods and materials for containment and cleaning up:

Small/Large spill: : Absorb spills of reagents and patients samples wit absorbent paper, taking care not to spread the material. Clean spill area with water.

7. HANDLING AND STORAGE:

Handle as if capable of transmitting a disease. Use PPE. Avoid contact with skin, eyes, and clothing. Wear appropriate protective clothing (Section 8).

Keep container tightly closed, and in a cool, well-ventilated area. Store at 2-8°C.

Precautions for safe handling:

Protective measures: Put on appropriate personal protective equipment (see Section 8)

8. EXPOSURE CONTROLS/PPE:

Control parameters:

Chemical name	CAS No.	Exposure limits
Glycerol	56-81-5	TWA : 10 mg/m ³
Sodium dodecyl sulfate	51-21-3	No data available
Urea	57-13-6	No data available
Tris-phosphate	6992-39-8	No data available

Individual protection measures:

Hygiene measures: Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases, or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of

protection: safety glasses with side-shields.

Skin protection:

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. **Respiratory protection:** Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical state @ 40°C: Colorless Liquid

Color: None

Odor: Not available.

Odor threshold: Not available.

pH: Not available.

Melting point: Not available.

Boiling point: Not available.

Flash point: Not available.

Burning time: Not applicable.

Burning rate: Not applicable

Evaporation rate: Not available.

Flammability (solid, gas): Not available.

Lower and upper explosive (flammable) limits: Not available.

Vapor pressure: Not available.

Vapor density: Not available.

Relative density: Not available.

Solubility: Not available.

Partition coefficient: Not available.

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

SADT: Not available.

Viscosity: Not available.

10. STABILITY AND REACTIVITY:

Reactivity: None known

Chemical stability: Stable under normal conditions

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: No information available

Incompatible materials: No information available

Hazardous decomposition products: No information available

11. TOXICOLOGICAL INFORMATION:

Information on toxicology effects:

Acute toxicity: Not available

Irritation/Corrosion: Not available.

Sensitization: Not available.

Mutagenicity: Not available.

Carcinogenicity: Not available.

Reproductive toxicity: Not available.

Teratogenicity: Not available.

Specific target organ toxicity (single exposure): Not available.

Specific target organ toxicity (repeated exposure): Not available.

Aspiration hazard: Not available.

Conclusion/Summary: To the best of our knowledge, the toxicological properties of this substance have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION:

Data not yet available.

13. DISPOSAL CONSIDERATIONS:

Disposal should be made in accordance with existing procedure and protocols currently in place. Observe all federal, state, and local regulations pertaining to waste disposal.

14. TRANSPORT INFORMATION:

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION:

US Federal Regulations

This mixture is not listed on the TSCA Inventory. This substance is not SARA listed.

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances: Not listed

Clean Air Act Section 602 Class II Substances: Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304:

Composition/information on ingredients: No products were found. SARA 304 RQ: Not applicable.

SARA 311/312:

Classification: Not applicable.

Composition/information on ingredients: No products were found. State regulations:

California Prop65: Not listed

International regulations:

EU REACH: Not listed

16. OTHER INFORMATION:

Reason for revision: Initial release of SDS

Revision number: 0

Revision: 11/15/2022

The above information is believed to be correct but should only be used as a guide for experienced personnel. Proteintech Group Inc. will not be liable for any damage resulting from the handling of or from contact with the above product. This SDS does not purport to be all-inclusive.