

Material Safety Data Sheet (MSDS)

Product Identification

Product Name: Protein Reagent X

Catalog Number: PRX-9812

Manufacturer: GPC Reagents Division

Recommended Use: Protein quantification in grain samples using Kjeldahl method.

Hazard Identification

Classification: Skin Irritant (Category 2), Eye Irritant (Category 2A)

Label Elements:

- Signal Word: Warning
- Hazard Statements: Causes skin and eye irritation.
- Precautionary Statements: Wear protective gloves and eye protection. Avoid inhalation.

Composition / Information on Ingredients

Main Components:

- Sulfuric Acid (CAS No: 7664-93-9) – 10%
- Copper Sulfate (CAS No: 7758-98-7) – 1%
- Distilled Water – 89%

First Aid Measures

Eye Contact: Rinse immediately with water for at least 15 minutes. Seek medical attention.

Skin Contact: Wash with plenty of soap and water. Remove contaminated clothing.

Inhalation: Move to fresh air. Administer oxygen if breathing is difficult.

Ingestion: Do NOT induce vomiting. Rinse mouth. Seek medical advice.

Fire-Fighting Measures

Suitable Extinguishing Media: Water spray, dry chemical, carbon dioxide.

Hazards: May release toxic fumes under fire conditions.

Protective Equipment: Wear self-contained breathing apparatus and full protective gear.

Handling and Storage

Handling: Use only with adequate ventilation. Avoid contact with skin, eyes, and clothing.

Storage: Store in tightly closed container in a cool, dry, well-ventilated area away from incompatible substances.

Exposure Controls / Personal Protection

Engineering Controls: Use fume hood or localized exhaust.

PPE: Gloves, lab coat, chemical splash goggles, and face shield.

Stability and Reactivity

Stability: Stable under recommended storage conditions.

Incompatibilities: Bases, oxidizing agents, strong reducing agents.

Hazardous Decomposition Products: Sulfur oxides, nitrogen oxides under fire.

Disposal Considerations

Dispose of contents and container in accordance with local, regional, and national regulations.

Use licensed chemical waste disposal contractor if available.

Note: This MSDS is provided in accordance with OSHA Hazard Communication Standard (29 CFR 1910.1200).