

# Material Safety Data Sheet (MSDS)

## I. Identification

This Datasheet applies to the following catalog numbers:

U-540  
UL-410-451 (APG proteins)  
UL-500, 520, 521, 522, 530 (UFM1 proteins)  
UL-522, 558, 801-840 (NEDD8 proteins)  
UL-552, 556, 600-620 (ISG15 proteins)  
UL-551, UL-700, 705-736, 750-754, 756-764, 766-777 (SUMOs)  
ULM-710-762 (SUMO Mutants)  
ULC-200-320 (SUMO chains)  
UL-810-813, 820-835 (ISG15 Proteins)  
UL-900-914 (FAT10 proteins)

## II. Ingredients

**Material:** Protein in Buffer  
See individual product datasheet for buffer components

## III. Physical Data

**Boiling point:** N/A  
**Vapor density (Air = 1):** N/A  
**Appearance and odor:** Colorless and odorless  
**Melting point:** N/A  
**Freezing Point:** N/A  
**Vapor Pressure at 20°C:** N/A  
**Specific gravity (H<sub>2</sub>O = 1):** N/A  
**Evaporation rate:** N/A  
**Vapor pressure (mm Hg):** N/A  
**Solubility in water:** Readily miscible in water

## IV. Fire and Explosion Hazard Data

**Auto-ignition temperature:** N/A  
**Flash point:** N/A  
**Flammable limits in Air (% by volume):** N/A  
**Percent volatile by volume (%):** N/A  
**Extinguishing media:** Fire extinguishing media should match other materials in fire.  
**Special fire fighting procedures:** If involved in fire, don NIOSH/MSHA approved self-contained breathing apparatus, flame/chemical resistant.  
**Unusual fire and explosion hazards:** None known

## V. Health Hazard Data

To the best of our knowledge, the toxicological properties of this compound have not been fully investigated. Exercise appropriate precautions to prevent opportunities for inhalation, and direct contact with skin and eyes. All uncharacterized chemicals should be treated as suspected toxins.

**Swallowing:** May be harmful if swallowed.  
**Inhalation:** May be harmful if inhaled.  
**Skin contact:** May be harmful.  
**Eye contact:** May cause eye irritation.  
**Chronic effects of Overexposure:** May be harmful.  
**Emergency and First Aid Procedures**

Swallowing: Wash out mouth with water, provided person is conscious. Call a physician.

Skin: In case of contact, immediately wash skin with copious amounts of water.

Inhalation: If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

**Eyes:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating eyelids with fingers. Consult a physician.

## VI. Reactivity Data

**Stability:** Any degradation products are not hazardous.  
**Stability/Conditions to avoid:** Not reactive as far as is known  
**Incompatibility/Materials to avoid:** None known  
**Hazardous Decomposition Products:** None known  
**Hazardous polymerization:** Will not occur

## VII. Spill or Leak Procedures

**Steps to be taken if material is spilled or released:** Wear lab coat, chemical resistant gloves and safety glasses. Wipe up spill with a suitable absorbant and dispose of properly. Wash down the spill site.  
**Waste disposal method:** Dispose of in accordance with all federal, state and local regulations.

## VIII. Special Protection Information

**Respiratory protection:** Not required.  
**Ventilation:** Not required.  
**Protective equipment:** Good laboratory practices should always be used. Wear suitable protective clothing, chemical resistant gloves and lab safety glasses.

## IX. Special Precautions

**Precautions to be taken in handling and storage:** This compound is sold only for research use by personnel familiar who are well trained in good laboratory habits, such as avoiding spills, keeping hands clean at all times and not rubbing eyes with hands while working in the laboratory. This compound is for use in dilute solutions in biological research. No other use is intended, and any other use may involve substantial hazards.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide for experienced personnel. Boston Biochem, Inc., shall not be held liable for any damage resulting from the handling of or from contact with the above product. The burden of safe use of this material rests entirely with the user.

## X. Contact

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