



*Biomolecules for research*

## MATERIAL SAFETY DATA SHEET

### Section 1 : Substance Identification

**Name:** Apstatin

**CAS Number:** 160470-73-5

**Catalog Number:** PI-145

**Chemical Formula:**  $C_{23}H_{33}N_5O_5$

**Chemical Class:** Peptide

**Company Identification:** BIOMOL International L.P.  
5120 Butler Pike  
Plymouth Meeting PA 19462-1202 USA  
(610) 941-0430 (9am-5pm ET)

### Section 2 : Health Hazard Data

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

**Chronic Health Effects:** unknown

### Section 3 : First Aid Measures

**Eye Contact:** Check for and remove contact lenses. Flush eyes with running water for at least 15 minutes separating eyelids. **Seek medical attention immediately.**

**Skin Contact:** Wash with soap and water for 15 minutes. Remove contaminated clothing and shoes. **Seek medical attention immediately.**

**Inhalation:** Remove from exposure. If breathing is difficult, administer oxygen. If breathing stops, administer artificial respiration. **Seek medical attention immediately.** Provide chemical label and MSDS if possible.

**Ingestion:** Remove dentures and clear mouth. If person is conscious, rinse mouth with water. **Call physician or poison control immediately.** Provide chemical label and MSDS information if possible.

## Section 4 : Fire and Explosion Data

**Flammability:** Not Available

**Flash Point:** Not Available

**Combustion Products:** Carbon monoxide, Carbon dioxide, Nitrogen oxides

**Extinguishing Media:** Carbon Dioxide, Dry chemical powder, polymer foam, water spray

**Special Firefighting Procedures:** Use self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Unusual Fire/Explosion Hazards:** None known

## Section 5 : Spill or Leak Procedures

**Cleanup Procedures:** Wearing appropriate protective gear as outlined under "Protective Equipment" wipe up spill and place in sealed container and hold for disposal. Avoid raising dust. Ventilate the area and wash spill site after material has been removed.

**Waste Disposal Method:** Observe all Federal, State and Local regulations concerning the disposal of this product.

## Section 6 : Storage and Handling Precautions

**Protective Equipment:** For spill clean up, wear suitable protective clothing, chemical resistant rubber gloves, rubber boots, and chemical safety goggles. Self contained breathing apparatus or NIOSH/MSHA approved respirator is recommended.

**Storage and Handling:** This product should be stored at -20°C. It should be kept in a tightly closed container. This product should be handled only by qualified experienced professionals. Wash thoroughly after handling this material.

## Section 7 : Physical Data

**Appearance:** White solid

**Molecular Weight:** 459.5

**Boiling Point:** Not Available

**Solubility:** DMSO, water

**Specific Gravity:** Not Available

**Volatility:** Not Available

**Odor:** Not Available

**Taste:** Not Available

**Melting Point:** Not Available

**Vapor Density:** Not Available

**Vapor Pressure:** Not Available

## Section 8 : Stability and Reactivity Data

**Stability:** This material is stable if stored as directed

**Conditions to Avoid:** None known

**Incompatibles:** Strong oxidizing agents

## Section 9 : Toxicity Data

**RTECS#:** Not Available

## Section 10 : Ecological Data

**Ecotoxicological Information:** None Available

*The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.*

Emergency Contact:

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Last Revised : 1/26/07