Section 1: Substance Identification

Name: Amifostine          CAS Number: 20537-88-6
Catalog Number: GR-341    Chemical Formula: C$_5$H$_{15}$N$_2$O$_3$PS
Chemical Name: 2-(3-Aminopropyl)aminoethyl phosphorothioate
Synonyms: WR2721
Chemical Class: Not Available
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: Active pharmaceutical ingredient. Exercise appropriate precautions to prevent overexposure via inhalation, or contact with the eyes. May cause irritation of mucus membranes. May be harmful if ingested.
Chronic Health Effects: unknown
Target Organs: Cardiovascular system

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, Sulfur oxides, Phosphorous 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 room temperature. 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:** Solid
**Molecular Weight:** 214.2
**Boiling Point:** Not Available
**Solubility:** 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#:** TE6491000

**Oral LD50:**
- Mouse : 842 mg/kg
- Rat : 826 mg/kg
- Monkey : >10000 mg/kg
- Guinea Pig : 635 mg/kg

**I.P. LD50:**
- Rat : 418 mg/kg
- Guinea Pig : 407 mg/kg
- Mouse : 321 mg/kg

**I.M. LD50:**
- Rat : 396 mg/kg
- Mouse : 514 mg/kg

**I.V. LD50:**
- Mouse : 557 mg/kg

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:

BIOMOL International L.P.
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Plymouth Meeting, PA 19462 USA

(610) 941-0430

Last Revised : 12/3/04