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**MATERIAL SAFETY DATA SHEET**

**TECAMID™ MDS Nylon 6/6**

**EMERGENCY TELEPHONE:** 724-746-6050 or 856-227-0500  
**Issue Date:** June 1, 1999  
**Revised Date:** June 29, 2004  
**TRADE NAME:** Tecamid™6/6 MDS  
**CHEMICAL NAME:** Polyhexamethylenediamine-adipic acid resin

**1. First Aid Measures**

**Eye Contact:** Flush eyes with running water for at least 15 minutes. If irritation or discomfort persists, obtain medical attention.

**Skin Contact:** For irritation, flush the skin with cool water, then wash gently with mild soap and water. If hot polymer burns the skin, immerse burned area in cold running water and obtain medical attention immediately.

**Inhalation:** Remove affected individual to fresh air; obtain medical attention for irritation or other exposure symptom.

**Ingestion:** Not a probable rout of exposure, but avoid ingestion of the product.

**2. Hazardous Ingredient information**

<u>Ingredient / C.A.S.#</u>	<u>Wt. %</u>	<u>Hazard Data</u>
Molybdenum Disulfide / 1317-33-5	<10%	ACGIH TLV = 10 mg/m <sup>3</sup> TWA OSHA PEL = 10 mg/m <sup>3</sup> TWA

This compound may contain varying amounts of polymers, stabilizers, and processing aids. Except as indicated above, any hazardous chemical that may be included in these mixtures are present in concentrations of less than 1.0 percent.

**3. Health Information & Protection**

**Inhalation:** Pellets are not respirable. Thermal processing fumes and vapors may cause irritation to the nose and throat. Prolonged excessive, dust exposure may cause other symptoms.

**Ingestion:** Not a probable rout of exposure.

**Skin:** Pellets or dust in contact with the skin may cause irritation. Contact with hot or molten polymer may cause thermal burns.

**Eyes:** Pellets or dust may cause mechanical irritation.

**4. Fire & Explosion Hazard**

**Flash Point:** Not Applicable  
**Auto ignition Temperature:** Not Applicable  
**Upper Flammable Limits (% by Vol):** Not Applicable

Lower Flammable Limits (% by Vol): Not Applicable

Unusual Fire and Explosion Hazards: None

#### 5. Accidental Release Measures

*Spill / Leak: (Always wear personal protective equipment - section 7):* Sweep up or vacuum up material and place it in a container for reuse or disposal. Caution: pellets on floor are slippery and can cause falls.

#### 6. Storage and Handling

*Storage:* Store in moisture proof containers in a cool and dry area.

*Normal Handling:* Wear adequate personal protective equipment. Avoid breaking vapor or dust. Use with adequate ventilation.

#### 7. Exposure Controls / Personal Protection

*Ventilation:* Maintain vapor or dust levels below the permissible TLV concentration by the use of adequate local or mechanical (general) exhaust system which discharges at a point outside the workplace.

*Respiratory Protection:* for exposures to thermal processing fumes or vapors in excess of permissible exposure levels, use an organic vapor respirator approved by NIOSH.

Excessive nuisance dust may be irritating to the eyes and breathing passages and may cause skin abrasion. The American Conference of Governmental Industrial Hygienists recommends a threshold limit value (TLV) of 10 milligrams per cubic meter of air for general nuisance dust.

*Eyes and Face:* Wear safety glasses with side-shields as a minimum. Do not wear contact lenses. A face shield may be added when processing molten material.

*Hands, Arms, and Body:* Wear gloves when handling drums and when handling hot polymer. Arm protection may be added to protect against thermal burns.

*Other Clothing & Equipment:* Should be consistent with user's plant requirements. An eye wash fountain or other source of running water is recommended in or near the work area.

*Fire Extinguishing Agents Recommended:* Use water or dry chemical

*Special Fire Fighting Precautions:* Wear self-contained breathing apparatus approved by NIOSH

*Special Precautions / Procedures:* None

#### 8. Physical & Chemical Properties

*Material is (at normal conditions):* [ ] Liquid [x] Solid [ ] Gas

*Appearance and Odor:* White to tan color unless pigmented; negligible odor

*Boiling Point:* Not Applicable

*Melting Point:* 215°C

*Specific Gravity (H<sub>2</sub>O = 1):* 1.35

*Vapor Density (air = 1):* Not applicable

*Solubility in water (% by weight):* Insoluble

*Vapor Pressure (mm Hg at 20°C):* Not applicable

#### 9. Stability & Reactivity

*Conditions to Avoid:* Exposure to open flame or temperature exceeding optimum recommended processing temperatures. Also, avoid prolonged exposure to processing temperatures.

*Incompatibility:* Strong mineral acids

*Hazardous Decomposition Products:* Thermal breakdown products may include a complex mixture of organic and inorganic compounds including but not limited to simple hydrocarbons, aldehydes, ketones, inorganic oxides, carboxylic acids of many molecular weights and structures, and possibly trace amounts of hydrogen cyanide and other materials depending on the product grade, specific temperature, time of exposure, and other immediate environmental factors.

*Hazardous Polymerization:* Will not occur.

#### **10. Disposal Considerations**

*Waste Disposal Methods:* Can be discarded as a harmless organic material. Disposers must comply with Federal, State, and Local Disposal or Discharge Laws.

*This material safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which we received from sources outside our company. We believe this information to be correct but cannot guarantee its accuracy or completeness. Health and safety precaution in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulation. No statement made in the data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either express or implied.*