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## Material Safety Data Sheet

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### ***TECAMID™6/12 Natural***

EMERGENCY TELEPHONE: 724-746-6050 or 856-227-0500  
ISSUE DATE: October 1, 1985  
REVISION DATE: April 11, 2011  
TRADE NAME: TECAMID™  
PART NAME: NYLON 6/12  
CHEMICAL NAME: Polyhexamethylene Dodecanamide

### *1. Information on Ingredients*

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<b>MATERIAL</b>	<b>CAS Number</b>	<b>%</b>
Polyhexamethylene Dodecanamide	26098-55-5	>97
Lubricant, Stabilizer		0 - 3

Material is not known to contain Toxic Chemicals under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Additives in this product do not present a respiration hazard unless the product is ground to a powder of respirable size and the dust is inhaled. All dusts can potentially cause injury to the respiratory tract if respirable particles are generated and inhaled in sufficiently high concentrations. Good industrial hygiene practices, as with all dusts, should include precautions to prevent inhalation of respirable particles.

### *2. Hazard Identification*

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#### **POLYHEXAMETHYLENE DODECANAMIDE**

No adverse effects are expected from occupational exposure.  
Significant skin permeation after contact appears unlikely. There are no reports of human sensitization.

#### **CARCINOGENICITY INFORMATION**

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

### 3. First Aid Measures

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#### **INHALATION**

No specific intervention is indicated as the compound is not likely to be hazardous by inhalation. Consult a physician if necessary. If exposed to fumes from overheating or combustion, move to fresh air. Consult a physician if symptoms persist.

#### **SKIN CONTACT**

The compound is not likely to be hazardous by skin contact, but cleansing the skin after use is advised. If molten polymer gets on skin, cool rapidly with cold water. Do not attempt to peel polymer from skin. Seek medical treatment for thermal burn.

#### **EYE CONTACT**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician if irritation persists.

#### **INGESTION**

No specific intervention is indicated as compound is not likely to be hazardous by ingestion.

### 4. Fire Fighting Measures

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#### **FLAMMABLE PROPERTIES**

Flash Point: Not Applicable

#### *Fire and Explosion Hazards :*

- Like most organic materials in powder form, dust generated from this product may form a flammable dust-air mixture. Potential for a dust explosion may exist. Minimize the generation and accumulation of dust. Keep away from sources of ignition.
- Large molten masses may ignite spontaneously in air. Water quenching of such masses is good practice.
- Hazardous gases/vapors produced in fire are ammonia, carbon monoxide, traces of hydrogen cyanide, aldehydes.

#### **EXTINGUISHING MEDIA**

Water, Foam, Dry Chemical, CO<sub>2</sub>

#### **FIRE FIGHTING INSTRUCTIONS**

Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus.

## 5. Handling and Storage

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### **HANDLING (Personnel)**

See FIRST AID and PERSONAL PROTECTIVE EQUIPMENT Sections

### **HANDLING (Physical Aspects)**

Minimize the generation and accumulation of dust.

### **STORAGE**

Store in a cool dry place. Keep away from heat and sunlight.

## 6. Exposure Controls / Personal Protection

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### **ENGINEERING CONTROLS**

**VENTILATION:** If hot processing this material, use local and/or general exhaust ventilation to control the concentration of vapors and fumes below exposure limits.

In cutting, grinding, or machining operations with this material, use local exhaust to control the concentration of dust below exposure limits.

### **PERSONAL PROTECTIVE EQUIPMENT**

#### *EYE/FACE PROTECTION*

Wear safety glasses. Wear coverall chemical splash goggles and face shield when possibility exists for eye or face contact with molten material. A full face mask positive-pressure air-supplied respirator provides protection from eye irritation.

#### *RESPIRATORS*

A NIOSH/MSHA approved air-purifying respirator with an organic vapor cartridge with a dust/mist filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, where exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

#### *PROTECTIVE CLOTHING*

If there is potential contact with hot/molten materials, wear heat resistant clothing and footwear. Wear leather or cotton gloves when grinding, sawing, routing, drilling or sanding.

### **EXPOSURE GUIDELINES**

#### *EXPOSURE LIMITS*

#### **POLYAMID**

PEL (OSHA):	Particulates (Not Otherwise Regulated)
	15 mg/m <sup>3</sup> , 8 hr. TWA, total dust
	5 mg/ m <sup>3</sup> , 8 hr. TWA, respirable dust

## 7. Physical and Chemical Properties

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### PHYSICAL DATA

Melting Point:	>200°C (>392 °F)
Solubility in Water:	Insoluble
Odor:	None
Color:	Cream
Form:	Rod, Plate, Sheet or Tube (stock shape product)
Specific Gravity:	> 1

## 8. Stability and Reactivity

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### CHEMICAL STABILITY

Stable at normal temperatures and storage conditions.

### CONDITIONS TO AVOID

Temperatures above 340°C (644°F). Avoid prolonged exposure at or above the recommended processing temperatures.

### INCOMPATIBLITY WITH OTHER MATERIALS

Incompatible or can react with strong acids, oxidizing agents.

### DECOMPOSITION

Hazardous gases or vapors can be released, including carbon monoxide, ammonia, hydrogen cyanide.

### POLYMERIZATION

Polymerization will not occur.

## 9. Toxicological Information

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### ANIMAL DATA

#### NYLON 612

Oral LD50: >10,000 mg/kg in rats

Nylon 612 is not a skin irritant or eye irritant in animal tests.

Nylon 612 caused no adverse effects when administered to animals in their diets for 13 weeks.

No animal test reports are available to define carcinogenic, mutagenic, developmental, or reproductive hazards.

## 10. Ecological Information

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### **AQUATIC TOXICITY**

No information is available. Toxicity is expected to be low based on insolubility in water. Do not discharge to streams, ponds, lakes or sewers.

## 11. Disposal Considerations

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### **WASTE DISPOSAL**

Preferred options for disposal are (1) recycling, (2) incineration with energy recovery, and (3) landfill. The high fuel value of this product makes option 2 very desirable for material that cannot be recycled, but incinerator must be capable of scrubbing out acidic combustion products. Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulation.

## 12. Transportation Information

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### **SHIPPING INFORMATION**

Not regulated in transportation by DOT/IMO/IATA.

## 13. Regulatory Information

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### **U.S. FEDERAL REGULATIONS**

TSCA Inventory Status: In compliance with TSCA Inventory requirements for commercial purposes.

### **STATE REGULATIONS (U.S.)**

#### **STATE RIGHT-TO-KNOW**

No substances on the state hazardous substances list, for the states indicated below, are used in the manufacture of products on this Material Safety Data Sheet, with the exceptions indicated.

Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for special hazardous substances) – None known

WARNING – Substances known to the state of California to cause cancer, birth defects or other reproductive harm – None known

Substances on the New Jersey workplace hazardous substance list present at the concentration of 1% or more (0.1% for substances indentified as carcinogens, mutagens or teratogens ) – None known

## 14. Other Information

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### **ADDITIONAL INFORMATION**

MEDICAL USE: CAUTION – Do not use in medical applications involving permanent implantation in the human body.

*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 responsibility to evaluate and use this product safely and to comply with all applicable laws and regulations. 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 may infringe existing patents. No warranty is made, either expressed or implied.*