

MOLDED PTFE MATERIAL SAFETY DATA SHEET Nylon

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Nylon 101, 103, 105
CHEMICAL NAME: Polyhexamethylene Adipamide – Nylon 66

MANUFACTURER: Jade Engineered Plastics
ADDRESS: 121 Broad Common Rd
Bristol RI 02809

EMERGENCY PHONE: 401-253-4440 (24 hours)
Issue Date: 08/01/2010
Supersedes Date: N/A
Product Use: Engineered Thermoplastic Fabricated Parts

SECTION 2: INGREDIENTS

Ingredient	C.A.S. No.	% by Wt
Polyhexamethylene Adipamide	32131-17-2	Major

*Stabilizers <11

Additives not hazardous by 29CFR1910.1200.

* = Components for Nylon 103 & 105

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

HMIS Classification: Health: 0; Flammability: 1; Reactivity: 0

Potential Health Effects:

Eye Contact: Mechanical Irritation Only
Skin Contact: Molten Nylon causes thermal burns.
Inhalation: Parts not respirable.
Ingestion: Not a probable route of exposure.

Specific Physical Form: Skived Films, Rods, Sheets, Tubes, Molded/Machined Parts
Odor, Color: None, Off-White
General Physical Form: Solid

Immediate health, physical, and environmental hazards: None

SECTION 4: FIRST AID MEASURES

Inhalation: If exposed to fumes from overheating material, move to fresh air. If signs/symptoms develop, seek medical attention.

Skin Contact: Immediately flush skin with plenty of soap and cold water. If molten polymer contacts skin, cool rapidly with cold water. Do not attempt to peel polymer from skin. Obtain immediate medical attention.

Eye Contact: Flush eyes with plenty of water. If symptoms persist, seek medical attention.

Chronic Effects: None known

Medical Conditions Aggravated

By this Material: None Known

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray or any Class A extinguishing agent.

Unusual Fire & Explosion: None known

Hazards:

Hazardous Decomposition: At temperatures above 340C/644°F, heavy fuming, carbon monoxide, carbon dioxide, nitrogen oxides and hydrogen cyanide.

Products:

Flash Point 400C/752°F per ASTM D-1929

Fire Fighting Protective

Equipment: Wear full protective equipment and self-contained breathing apparatus (SCBA). Firefighting equipment should be thoroughly decontaminated after use.

Physical Health Hazards:

Dust may form explosive mixtures with air. Avoid dust formation and control ignition sources. All plastic dust particles suspended in air are combustible and may be explosive. Keep away from heat, sparks, flame, and other ignition sources. Prevent dust accumulations and dust clouds. Employ grounding, venting, and explosive relief provisions in accordance with accepted engineering practices and NFPA provisions in any process capable of generating dust and/or static electricity. Explosion hazards apply only to dusts, not granular forms of this product. (See also special precautions section below.)

SECTION 6: ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Observe precautions from other sections. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Ventilate the area with fresh air. Collect as much of the spilled material as possible. Use wet sweeping compound or water to avoid dusting. Sweep up. Clean up residue. Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible. **In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.**

SECTION 7: HANDLING AND STORAGE

Safe Storage Conditions: Dry storage under normal warehouse conditions. Keep containers closed to prevent contamination.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use with appropriate local exhaust ventilation at processing equipment to keep particulates below 15mg/m³. Grinding and machining of parts should be reviewed to assure particulate levels are kept at recommended levels.

Hand & Skin Protection: Avoid skin contact with hot material. Wear protective gloves, such as Nomex, when handling this material to prevent thermal burns. Wear long sleeve cotton shirt and pants if handling molten polymer.

Eye Protection: Avoid eye contact; Wear safety glasses with side shields when grinding or machining.
Hygiene Measures: Avoid contact with skin, eyes, & personal clothing. Do not contaminate tobacco products. Wash hands thoroughly before eating.

Exposure Limit: Particulates (not otherwise regulated) with the following generic exposure limits:
OSHA PEL: 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction)

Personal Protective Equipment:

Respiratory Protection: Avoid breathing of dust.
During normal processing, none required if adequate ventilation is provided.
During heating: Avoid breathing of vapors.

Prevention of Swallowing: Not a probable route of exposure.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Skived Films, Rods, Sheets, Tubes, Molded/Machined Parts
Color: Off-White
Odor: Not applicable
Boiling Point/Range: Not applicable
Melting Point/Range: 250-265C / 482-509°F
Flash Point (C/°F): 400C/752°F
Vapor Pressure: Not applicable
Vapor Density: Not applicable
Specific Gravity: 1.13-1.15 [*Ref Std: WATER=1*]
Solubility in Water: Insoluble
Physical State: Solid

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.
Materials & Conditions to Avoid: Strong acids and oxidizing agents. Do not heat above 340C/644°F.

SECTION 11: TOXICOLOGICAL INFORMATION

Chronic Toxicity: Nylon 101 does not appear to possess any toxicological properties.

Medical Conditions Prone to Aggravation by Exposure: Thermal decomposition products of Nylon have been reported to be irritating to the mucus membranes and respiratory tract.

Carcinogenicity: None known.

SECTION 12: ECOLOGICAL INFORMATION

Aquatic Toxicity: Toxicity is expected to be low based on insolubility of polymer in water.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste from residues/unused products: Reclaim if feasible. Dispose of waste product in a landfill or incineration facility in compliance with Federal, State, and Local Regulations.
Since regulations vary, consult applicable regulations or authorities before disposal.

SECTION 14: TRANSPORT INFORMATION

DOT Hazard Class: N/A
Shipping Name: N/A

SECTION 15: REGULATORY INFORMATION

Section 313 Supplier Notification: **(SARA Title III – Toxic Chemicals List)**

This product contains no known toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and 40CFR372.

State Right to Know Laws: No substances on the state hazardous list, for the states indicated below, are used in the manufacture of the products on this MSDS, with the exceptions indicated. While we do not specifically analyze these products, or the raw materials used in their manufacture, for substances on various state hazardous substances lists, to the best of our knowledge the products on this MSDS contain no such substances except for those specifically listed below:

Pennsylvania: Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more: **NONE KNOWN**.
Substances on the Pennsylvania Special Hazardous Substances List present at a concentration of 0.01% or more: **NONE KNOWN**.

California: Substances known to the State of California to cause cancer: **NONE KNOWN**.
Substances known to the State of California to cause birth defects or other reproductive harm: **NONE KNOWN**.

SECTION 16: OTHER INFORMATION

Additional Advice: Consult your supplier if the material is to be used for special applications such as in the food industry or for hygiene, medical or surgical end use.

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