

**MOLDED PTFE MATERIAL SAFETY DATA SHEET Nylatron**

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** Nylatron GS, GSVQ, GSVQ II  
**CHEMICAL NAME:** Polyhexamethylene Adipamide – Nylon 66 –plus Molybdenum Disulfide

**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**

<b>Ingredient</b>	<b>C.A.S. No.</b>	<b>% by Wt</b>	<b>ACGIH TLV</b>	<b>OSHA PEL</b>	<b>CRMG</b>
Polyhexamethylene Adipamide	32131-17-2	Major	None	None	None

Additives not hazardous by 29CFR1910.1200.

**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. At temperatures above 349C/660°F, molybdenum disulfide will release sulfur dioxide and carbon monoxide.

### 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/m<sup>3</sup>. 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/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (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:** 1.15-1.18 [*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:** Nylatron GS does not appear to possess any toxicological properties.

**Medical Conditions Prone to Aggravation by Exposure:** Thermal decomposition products of Nylatron 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.

### **DISCALIMER:**

The information provided herein is related only to the specific product designated and may not be applicable where such product is used in combination with any other materials or in any process. **NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER NATURE, ARE MADE HEREUNDER.** The user of this product has the sole responsibility to determine the suitability of the product for any use and manner of use intended. This document may be revised after its issuance, and the user should refer to the most current version.

**--END OF MSDS--**