



## Professional Plastics

# MATERIAL SAFETY DATA SHEET

## NylaPro-6000

### Section One: Identification

**Chemical Family:** Polyamide      **Product Name:** NylaPro-6000® Cast Nylon

**Manufactured by:** Professional Plastics  
1810 Valencia Dr.  
Fullerton, CA 92831  
Phone: (714) 446-6500  
Fax: (714) 447-0114

**Department of Transportation: Hazard Classification** - Not Required

### Section Two: Physical Data

**Specific Gravity:** 1.15      **State:** Solid  
**Percent Volatile by Volume** <1.0%      **Vapor Pressure at 20° C mm Hg** < 0.001%  
**Solubility in Water:** Insoluble      **Melting Point:** 433° F  
**Appearance and Odor:** Opaque Rods, Sheets, and Tubes with No Special Odor

### Section Three: Hazardous Ingredients

This is a polymeric material. All components are enclosed in the polymer system, and therefore present no likelihood of exposure under normal conditions of processing and handling. **See Appendix A for glass fiber reinforced material.**

### Section Four: Fire & Explosion Data

**Approximate Flammable Limits**      **LEL:** N/A      **UEL:** N/A

**Extinguishing Media:** Water, Carbon Dioxide, Foam, Dry Chemical  
Treat as Class B Fire

**Special Fire Fighting Procedures:** Full protective equipment, including self-contained breathing apparatus is recommended as protection from fumes from large fires. Water

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should be used to keep fire-exposed container cool. Water and/or dry chemical may cause damage to machinery.

### Section Five: Health Hazard Data

**Inhalation:** Remove to fresh air, if fever or flu-like symptoms are present; refer to a physician for treatment.

**Skin or Eye contact:** Hot melted Cast Nylon will cause thermal burns. Cool rapidly with cold water. Do not attempt to peel Nylon from skin. Obtain medical attention for thermal burn. Mechanical irritation will occur with eye contact. Flush with water.

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

**Other Potential Hazards Include:** As with any organic compound that is heated to vaporization, exposure may aggravate pre-existing conditions such as colds, allergies, asthma, emphysema, and psoriasis.

### Section Six: Reactivity Data

**Stability:** Stable

**Incompatibility (Materials to Avoid):** Strong acids and strong oxidizing agents.

**Hazardous Decomposition Products:** Incomplete thermal oxidation can produce hydrogen cyanide.

**Hazardous Polymerization:** Will not occur

**Conditions to Avoid:** Heating above 433° F.

### Section Seven: Accidental Spill or Leak

**Steps to be taken in case material is released or spilled:** Clean up by vacuuming or wet sweeping to minimize dust exposure.

**Waste Disposal Method:** Incineration or landfill in compliance with federal, state and local regulations.

### Section Eight: Special Protection Equipment

**Respiratory:** None is required under normal processing equipment. Wear a properly filled respirator approved by NIOSH if local exhaust does not keep particulate concentration below ACGIH Threshold Limit Value or irritation occurs.

**Ventilation:** Provide sufficient ventilation in volume and pattern at equipment to keep contaminants below applicable OSHA requirements and other suggested exposure limits.

**Protective Clothing:** Protective gloves, long sleeve shirt and long pants if handling molten polymer or are recommended.

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**Eye Protection:** Safety Glasses are recommended to prevent particulate matter from entering eyes while grinding or machining.

### Section Nine: Special Precautions

**Precautions to be taken in handling and Storing:** Keep away from sparks and open flames. Use dry storage containers and keep s tightly closed.

**Other:** Grinding & machining of parts should be reviewed to assure that particulate levels are kept at recommended standards.

### Section Ten: Notes

**The data in this material safety data sheet relate only to the specific product designated herein and do not relate to use in combination with any other material or process. The information herein is given in good faith but no warranty, expressed or implied, is made.**

## Appendix A – Glass Fiber Filled

Fabricating or machining Glass Fiber Reinforced NylaPro Nylon can free some of the enclosed glass particles. These glass particles are considered a mechanical irritant.

### Potential Effects vs. Exposure Duration:

**ACUTE (short term):** Breathing the dusts and fibers may cause short-term irritation of the mouth, nose and throat. Skin contact with dust and fibers may cause itching and short-term irritation. Eye contact with dust and fibers may cause short-term irritation. Ingestion may cause short-term mechanical irritation of the stomach and intestines.

**CHRONIC (long term):** There is no known chronic health effects connected with long term contact with the glass fiber. In a laboratory test of a similar material to the glass fiber, animals breathing very high concentrations of respirable fibers on a long-term basis developed fibrosis, lung cancer and mesothelioma.

### Notes:

**Additional Special Protection Equipment:** In addition to the recommended equipment listed in Section 8, it is suggested that long sleeved shirts and long pants be worn when machining or fabricated Glass Fiber Reinforced Nylatech Nylon. Removal of dust from clothes or other collecting surfaces should be done with vacuum equipment. Avoid dry sweeping or compressed air for removal of dust or fibers.