



## ***MATERIAL SAFETY DATA SHEET***

**Product:** Monofilament produced from stabilized polyester PET resin

### **1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** PX-159, PX-411, PX-416, PX-417, PX-517, PX-500

**PRODUCT USE:** For fabrication into paper machine cloth and other industrial products

**MANUFACTURER:** Jarden Applied Materials  
6111 Shakespeare Road  
Columbia, South Carolina 29223  
Telephone: 803-754-7011  
FAX: 803-754-7991

**EMERGENCY PHONE NUMBER: 1-800-535-5035 INFOTRAC**

### **2. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>CHEMICAL NAME:</b>	<b>Weight (%)</b>	<b>CAS NUMBER</b>
polyethylene terephthalate	97 - 99	25038-59-9
hydrolytic stabilizer	1 - 2	2162-74-5
titanium dioxide	< 1	13463-67-7
fluoroaliphatic polymeric ester	< 1	trade secret

### **3. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW:** Synthetic plastic fiber with slight aromatic odor. Fiber is not considered hazardous at ambient conditions. Toxic vapors can be generated if heated above 177 deg C.

**Potential Health Effects:**

**Eyes:** Vapors can be irritating

**Skin:** Vapors can cause reddening, swelling, rash, or blistering

**Inhalation:** Vapors may be irritating to respiratory tract

**Ingestion:** May be irritating to gastro-intestinal tract if swallowed

**Ingredients found on one of the OSHA/WHIMS designated carcinogen lists are provided below:**

**INGREDIENT NAME:**

<u>NTP STATUS</u>	<u>IARC STATUS</u>	<u>OSHA LIST</u>	<u>ACGIH STATUS</u>
None	None	None	None

**4. FIRST AID MEASURES**

**Skin:** If irritated, wash with soap and water; remove contaminated clothing

**Eyes:** If irritated, flush with water for at least 15 minutes; Seek medical attention if condition persists

**Inhalation:** Remove to fresh air; Administer oxygen if breathing becomes difficult; Seek medical attention if condition persists

**Ingestion:** Do not induce vomiting; Give water or milk to drink

**Advice to physician:** May be a skin sensitizer; Treat symptomatically as for contact dermatitis or thermal burns

**5. FIRE FIGHTING MEASURES**

**FLAMMABLE PROPERTIES:**

<b>Flash Point:</b>	Not applicable, combustible solid
<b>Flash Point Method:</b>	Not applicable
<b>Auto-ignition Temperature:</b>	Not determined
<b>Upper Flame Limit (volume % in air):</b>	Not applicable
<b>Lower Flame Limit (volume % in air):</b>	Not applicable
<b>Flame Propagation Rate (solids):</b>	Not applicable
<b>OSHA Flammability Class:</b>	Not applicable; solid material
<b>Extinguishing Media:</b>	Use water spray, foam or dry chemical

Fire fighters should wear full protective equipment including self contained breathing apparatus (SCBA)..

**6. ACCIDENTAL RELEASE MEASURES**

**IN CASE OF SPILL OR OTHER RELEASE (always wear recommended personal protective equipment):** Sweep or vacuum material and place in container for proper disposal.

No special precautionary measures should be needed under anticipated conditions of use.

**7. HANDLING AND STORAGE**

**Normal Handling (Always wear recommended personal protective equipment):** Avoid processing material above recommended thermal processing temperature. Read product technical data sheet before use, or contact technical service representative for specific advice. Avoid inhalation of vapor and/or skin contact with product dust. Avoid dust in contact with eyes.

Use local exhaust ventilation at all emission points. Wash thoroughly after handling.

**Storage Recommendations:** To maintain product quality, store in cool, dry area.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls:** Good manufacturing practice and good industrial hygiene practice recommend the use of local exhaust ventilation at process emission points.

**Personal Protective Equipment:**

**Skin Protection:** Cover as much of skin area as possible; Wear gloves when handling fiber. Wash hands after use.

**Eye Protection:** Wear safety glasses with side shields as a minimum; Do not wear contact lens

**Respiratory Protection:** Ventilation should be provided during processing; If dusty conditions exist, use a mechanical filter respirator approved by NIOSH.

**Ingestion:** Do not eat, drink, or smoke when using this product. Wash exposed areas thoroughly with water and wash hands after handling and before eating.

**Additional recommendations:**

**Exposure Guidelines:** Operators performing grinding and machining of product should be reviewed to assure particulate levels are kept below recommended standards.

<u>Ingredient Name:</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>AEL (DuPont)</u>
Polymer dust	Not established	Not established	10 mg/m <sup>3</sup> , 8 Hr. TWA
Respirable			5 mg/m <sup>3</sup> , 8 Hr. TWA

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Filament
<b>Physical State:</b>	Solid
<b>Odor:</b>	Slight characteristic odor
<b>Specific Gravity:</b>	1.3 - 1.4
<b>Solubility in Water:</b>	Insoluble
<b>pH:</b>	Not Applicable
<b>Boiling Point:</b>	Not Applicable
<b>Melting Point:</b>	215 - 275 deg C
<b>Vapor Pressure:</b>	negligible
<b>Evaporation Rate:</b>	Not Applicable
<b>% Volatile:</b>	Not applicable
<b>Flash Point:</b>	Not Applicable
<b>Color:</b>	Natural or White

## 10. STABILITY AND REACTIVITY

**Normally Stable (Conditions to Avoid):** Product is stable under ordinary conditions of use and storage. Avoid exposure to open flame or temperatures exceeding optimum operating temperatures. Consult technical service personnel for recommended processing conditions.

**Incompatibilities:** None known

**Hazardous Decomposition Products:** formaldehyde, ethanol, methanol, acetic acid, acetone, carbodiimide vapors, carbamates, diisopropylphenyl diisocyanate (DIPI)

**Hazardous Polymerization:** Will not occur

## 11. TOXICOLOGICAL INFORMATION

**Immediate (Acute) Effects:** Low hazard for usual industrial handling

**Delayed (Sub-Chronic and Chronic) Effects:** No specific information available

**Other Data:**

## 12. ECOLOGICAL INFORMATION

No ecotoxicological information is available for this product. These products are not considered degradable or toxic in terms of their physical impact. Material is expected to have low aquatic toxicity because of its insolubility in water.

## 13. DISPOSAL CONSIDERATIONS

**Is the unused product a RCRA hazardous waste if discarded?** No  
**If yes, the RCRA ID number:** Not Applicable

**Other Disposal considerations:** Preferred options for disposal are recycle, incineration with energy recovery and landfill. Treatment, storage, transportation, and disposal of product must comply with applicable federal, state, and local disposal laws or regulations. **Do not heat or cut material with a gas torch.**

## 14. TRANSPORTATION INFORMATION

**US DOT (Department of Transportation):** Not Regulated  
**Canadian TDG (Transportation of Dangerous Goods):** Not Regulated

## 15. REGULATORY INFORMATION

This document has been prepared in accordance with the MSDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

### **TOXIC SUBSTANCES CONTROL ACT (TSCA):**

**TSCA INVENTORY STATUS:** All components are listed on the TSCA Inventory or are exempt under PMN regulations.

**OTHER TSCA ISSUES:** None

**US FOOD AND DRUG ADMINISTRATION (FDA):** Not Applicable

### **SARA TITLE III/CERCLA:**

#### **SARA/CERCLA HAZARDOUS SUBSTANCES:**

Reportable Quantities (RQ) and/or "Threshold Planning Quantities (TPQs) do not exist for this product.

## 16. OTHER INFORMATION

### **CHANGES TO MSDS FROM PREVIOUS ISSUE DATE ARE DUE TO THE FOLLOWING:**

Changed Company Name and logo.

### **NATIONAL FIRE PROTECTION AGENCY (NFPA) AND NATIONAL PAINT AND COATINGS ASSOCIATION (NPCA) RATING CLASSIFICATION:**

	<u>NFPA</u>	<u>HMIS</u>
Health	2	2
Flammability	1	1
Reactivity	0	1

**Disclaimer:** This product is not intended for use in medical implants.  
The information contained herein is presented in good faith and is accurate to the best of our knowledge. Jarden can not guarantee that any hazards listed herein are the only ones which may exist. Jarden no warranty of any kind, expressed or implied, concerning the safe use of this material in your process or in combination with other substances. User has the sole responsibility to determine the suitability of the material for their use. User must meet all applicable safety and health standards.

Refer to the appropriate Jarden bulletin for specific processing guide lines and good manufacturing practices.

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