

Beltec® Reinforcement Fiber

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Beltec® A601

OTHER/GENERIC NAMES: None

PRODUCT USE: Tire and industrial fiber. This fiber is not intended for uses other than industrial, e.g., in the food-handling industry, or in the medical or surgical sector. Please contact Performance Fibers, Inc. if there is uncertainty about the suitability of the intended use.

MANUFACTURER: Performance Fibers, Inc.
707 East Main Street, Suite 1800
Richmond, VA 23219

FOR MORE INFORMATION CALL: (Monday-Friday, 8:00 a.m. – 5:00 p.m.)
Product Stewardship
919-545-3724

IN CASE OF EMERGENCY CALL: (24 Hours/Day, 7 Days/Week)
919-542-2200

2. COMPOSITION/INFORMATION ON INGREDIENTS

| <u>INGREDIENT NAME</u> | <u>CAS NUMBER</u> | <u>WEIGHT %</u> |
|----------------------------|-------------------|-----------------|
| Polyethylene terephthalate | 25038-59-9 | 88-98 |
| Proprietary polymer | Proprietary | 1-10 |

Trace impurities and additional material names not listed above may also appear in Section 15 toward the end of the MSDS. These materials may be listed for local "Right-To-Know" compliance and for other reasons.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Solid off-white or delustered yarn or fiber. There are no hazards associated with the product for which first aid is required.

POTENTIAL HEALTH HAZARDS

SKIN: May cause mechanical irritation.

EYES: May cause mechanical irritation.

INHALATION: Not respirable in this form. Thermal processing of fiber may generate fumes and vapors which may cause irritation to the nose and throat. Dust should be considered as a nuisance dust (see Section 8).

INGESTION: Not a probable route of exposure.

DELAYED EFFECTS: None known.

Ingredients found on one of the OSHA-designated carcinogen lists are listed below.

| <u>INGREDIENT NAME</u> | <u>NTP STATUS</u> | <u>IARC STATUS</u> | <u>OSHA LIST</u> |
|--|-------------------|--------------------|------------------|
| No ingredients listed in this section. | | | |

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4. FIRST AID MEASURES

SKIN: If irritation develops, wash affected area with soap and water. If discomfort continues, seek medical attention.

EYES: If irritation develops, flush eyes with running water for 15 minutes. If discomfort continues, seek medical attention.

INHALATION: If processing vapor occurs and irritation develops, remove person to fresh air. If discomfort persists, seek medical attention.

INGESTION: Not a probable route of exposure.

ADVICE TO PHYSICIAN: No specific advice. Treat symptomatically.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: Not applicable

FLASH POINT METHOD: Not applicable

AUTOIGNITION TEMPERATURE: 500⁰ C (Layer Ignition Temperature)

UPPER FLAME LIMIT (volume % in air): Not applicable

LOWER FLAME LIMIT (volume % in air): Not applicable

FLAME PROPAGATION RATE (solids): Not determined

OSHA FLAMMABILITY CLASS: Not applicable

EXTINGUISHING MEDIA:
All standard agents may be used.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
None.

SPECIAL FIRE FIGHTING PRECAUTIONS/INSTRUCTIONS:
Wear self-contained breathing apparatus meeting NIOSH standards. Avoid excessive inhalation of smoke or potential thermal decomposition products.

6. ACCIDENTAL RELEASE MEASURES

IN CASES OF SPILL OR OTHER RELEASE: (Always wear recommended personal protective equipment.)
Sweep or vacuum and place in containers for disposal to an approved landfill or reuse.
Spills and releases may have to be reported to Federal and/or local authorities. See Section 15 regarding reporting requirements.

7. HANDLING AND STORAGE

NORMAL HANDLING: (Always wear recommended personal protective equipment.)
No special handling requirements.

STORAGE RECOMMENDATIONS:
No special storage requirements.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Mechanical ventilation should be used during processing to remove any dusts, mists, or vapors which may be generated.

PERSONAL PROTECTIVE EQUIPMENT

SKIN PROTECTION:

Protect against potential physical hazards such as contact with yarn moving at high speed, etc.

EYE PROTECTION:

Safety glasses are recommended during processing.

RESPIRATORY PROTECTION:

None normally required. An approved dust respirator meeting 42 CFR Part 84 standards should be worn if dusty conditions exist.

ADDITIONAL RECOMMENDATIONS:

None required.

EXPOSURE GUIDELINES (Guidelines exist for the following ingredients.)

| <u>INGREDIENT NAME</u> | <u>ACGIH TLV</u> | <u>OSHA PEL</u> | <u>OTHER LIMIT</u> |
|------------------------|------------------|-----------------|--------------------|
|------------------------|------------------|-----------------|--------------------|

* No ingredients listed in this section *

- * = Limit established by Performance Fibers, Inc.
- ** = Workplace Environmental Exposure Level (AIHA).
- *** = Biological Exposure Index (ACGIH).

OTHER EXPOSURE LIMITS FOR POTENTIAL DECOMPOSITION PRODUCTS:

Dust should be considered a nuisance dust:
 ACGIH TLV: 10 mg/m³ total dust
 OSHA PEL: 15 mg/m³ total dust; 5 mg/m³ respirable dust

See Section 16 regarding finish mists.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|--|
| APPEARANCE: | Off-white solid or delustered fiber or clear to greenish resin |
| PHYSICAL STATE: | Solid |
| MOLECULAR WEIGHT: | >30,000 |
| CHEMICAL FORMULA: | (C ₁₀ H ₈ O ₄) _x |
| ODOR: | No specific odor. |
| SPECIFIC GRAVITY (water = 1.0): | 1.3 - 1.4 g/cm ³ |
| SOLUBILITY IN WATER (weight %): | Insoluble |
| pH: | Not applicable |

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BOILING POINT: Not determined
MELTING POINT: 260 °C
VAPOR PRESSURE: Not applicable
VAPOR DENSITY (air = 1.0): Not applicable
EVAPORATION RATE: Not applicable
% VOLATILES: Not applicable
FLASH POINT: Not determined
COMPARED TO: Not applicable
(Flash point method and additional flammability data are found in Section 5.)

10. STABILITY AND REACTIVITY

NORMALLY STABLE? (CONDITIONS TO AVOID):
Normally stable.

INCOMPATIBILITIES:
Tends to dissolve in caustic materials.

HAZARDOUS DECOMPOSITION PRODUCTS:
Thermal decomposition products may include CO, ethylene glycol, aldehydes and other C, H, and O compounds varying in chemical structure and molecular weights.

HAZARDOUS POLYMERIZATION:
Will not occur.

11. TOXICOLOGICAL INFORMATION

IMMEDIATE (ACUTE) EFFECTS:
Not considered to cause irritant or allergic contact dermatitis based on testing results for skin irritation (rabbit), skin sensitization (guinea pig), and clinic evaluation using repeated insult patch test.

DELAYED (SUBCHRONIC AND CHRONIC) EFFECTS:
Not available.

OTHER DATA:
None.

12. ECOLOGICAL INFORMATION

No data available.

13. DISPOSAL CONSIDERATIONS

RCRA

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

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OTHER DISPOSAL CONSIDERATIONS: Dispose of as non-hazardous waste in accordance with local, state and federal regulations.

The information offered here is for the product as shipped. Use and/or alterations to the product, such as mixing with other materials, may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

14. TRANSPORT INFORMATION

US DOT PROPER SHIPPING NAME:

US DOT HAZARD CLASS: Not regulated

US DOT ID NUMBER: Not applicable

For additional information on shipping regulations affecting this material, contact the information number found in Section 1.

15. REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT (TSCA)

TSCA INVENTORY STATUS: Polymer is listed on the TSCA Inventory.

OTHER TSCA ISSUES: None

SARA TITLE III/CERCLA

"Reportable Quantities" (RQs) and/or "Threshold Planning Quantities" (TPQs) exist for the following ingredients.

| <u>INGREDIENT NAME</u> | <u>SARA/CERCLA RQ (lb.)</u> | <u>SARA EHS TPO (lb.)</u> |
|--|-----------------------------|---------------------------|
| No ingredients listed in this section. | | |

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center [(800) 424-8802] and to your Local Emergency Planning Committee.

SECTION 311 HAZARD CLASS: No ingredients listed in this section.

SARA 313 TOXIC CHEMICALS:

The following ingredients are SARA 313 "Toxic Chemicals." CAS numbers and weight percents are found in Section 2.

| <u>INGREDIENT NAME</u> | <u>COMMENT</u> |
|--|----------------|
| No ingredients listed in this section. | |

STATE RIGHT-TO-KNOW

In addition to the ingredients found in Section 2, the following are listed for state right-to-know purposes.

| <u>INGREDIENT NAME</u> | <u>WEIGHT %</u> | <u>COMMENT</u> |
|--|-----------------|----------------|
| No ingredients listed in this section. | | |

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ADDITIONAL REGULATORY INFORMATION:

None.

WHMIS CLASSIFICATION (CANADA):

Not a controlled product.

FOREIGN INVENTORY STATUS:

Not determined.

16. OTHER INFORMATION

CURRENT ISSUE DATE: June, 2006

PREVIOUS ISSUE DATE: May, 2006

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

Change in format to match other PF information sheets.

OTHER INFORMATION: Fiber is coated with minor quantities of finish oils. Textile processes may volatilize portions of these finishes and produce visible misting in the workplace. Ventilation is recommended to minimize exposure to such finish mists which should not exceed a concentration of 5 mg/m³ (ACGIH TLV for mineral oil).