

Bo-Buck

PARTIALLY ORIENTED YARN

IDENTITY: Partially Oriented Yarn  
 MANUFACTURER'S NAME: Bo-Buck Mills, Inc.  
 ADDRESS: 921 E. Boulevard  
 Chesterfield, SC 29709  
 EMERGENCY TELEPHONE NUMBER: (843) 623-2158  
 OTHER TELEPHONE NUMBERS: (843) 623-2158  
 INFORMATION CONTACT: Nan Ya Plastics Corporation, America  
 South Carolina Plant  
 140 E. Beulah Road  
 PO BOX 939  
 Lake City, SC 29560  
 PHONE: 843-389-7800  
 FAX: 843-389-3559

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 SECTION ONE: PRODUCT IDENTIFICATION  
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PRODUCT NAME: Partially Oriented Yarn  
 DESCRIPTION: Polyester filament yarn is a solid organic polymer composed of carbon, hydrogen, and oxygen. these products are made from polyethylene terephthalate polymer with one or more surface finishes applied at <1% total weight of fiber. There are no known physical or health hazards associated with the product itself.

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 SECTION TWO: HAZARDOUS INGREDIENTS  
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These products are not considered hazardous by the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

There is a possibility for certain potential hazards to result from the processing of the product. Although we cannot know every conceivable processing condition, we feel you should be aware of this potential in general. If in processing there is significant potential for the fiber itself to become airborne, Nan Ya recommends an airborne exposure limit of 10mg/m3 as an 8 hour time weighted average (TWA).

This product may contain up to one percent titanium dioxide (TiO2) as a delustrant. Animal studies have shown a low instance of lung tumors in some rats exposed by inhalation to a massive airborne level of pure TiO2 dust (250mg/m3) for their lifetimes. No pathological or toxicity were observed at any of lower test levels (50 and 10 mg/m3). We do not believe pure TiO2 presents a significant hazard if airborne concentrations are controlled to a reasonable level.

This product may contain up to one percent fiber finishes used as lubricants, typically consisting of various formulations of natural oils such as coconut and peanut oils, ester, oleates, palmitates, stearates. These lubricating oils are toxicologically evaluated prior to product commercialization and have been found to be generally of a low order of acute oral and inhalation toxicity in animals and dermal toxicity in humans and do not present a significant health hazard in their normal handling and use. If in processing there is a potential to generate airborne concentrations of these oils as a mist, we recommend an airborne exposure limit of 5mg/m3 as an 8 hour TWA. If heated to elevated temperatures (300 - 445 deg F) during processing these lubricating oils can degrade and generate gases which may contain very small amounts of such chemicals as ethanol, methanol, acetic acid, etc. The exact chemical compositions of these chemicals will, of course, depend upon the conditions of heating, (temperature, duration, availability of oxygen). In our experience, we are not aware of chemicals such as these reaching concentrations that present a serious health hazard.

When it is burned, no unusual combustion gases have been observed, and its combustion products are similar to those of other organic materials composed of the same elements. It is not readily biodegradable, nor radioactive. It contains no significant percent of materials extractable in water so its effect on ground water in case of landfill should be negligible. It is stable in all recommended use environments and requires no special handling procedures.

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 SECTION THREE: PHYSICAL AND CHEMICAL DATA  
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Polyethylene terephthalate is chemically stable and resistant to attack by oils, solvents, weak acids and weak alkalis. The polymer melts at around 500 deg F.

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 SECTION FOUR: PHYSICAL HAZARD  
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Polyester yarn will burn if exposed to flame. Decomposition products subject to auto ignition may be generated from molten polymer. Combustion products will be comprised of carbon, hydrogen, and oxygen. The exact composition will depend upon the conditions of combustion.

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 SECTION FIVE: HEALTH HAZARD DATA  
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Results from our toxicity studies suggest that these yarns would pose no significant health problems to employees in a normal textile mill environment.

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 SECTION SIX: CONTROL MEASURES  
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Adequate ventilation and other housekeeping measures are recommended to minimize exposure to airborne mist generated in textured processing operations. Firefighters should protect themselves from decomposition and combustion products that may include carbon monoxide and other toxic gases.

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 SECTION SEVEN: SAFE HANDLING PROCEDURES  
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Customary personal hygiene measures, such as washing hands after working with such fibers are recommended.

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 SECTION EIGHT: DISPOSAL AND SHIPPING INFORMATION  
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These products are not classified as hazardous wastes under the resource conservation and recovery act and, unless prohibited by state or local regulation, can be disposed of in municipal landfills or incinerated. Any finish oils contained in plant waste water should be biodegradable in conventional biological waste water treatment systems. These fibers are also no classified by the department of transportation as hazardous materials.

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