

## MATERIAL SAFETY DATA SHEET

MSDS NUMBER: PN00101

Date: 10/27/05

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**POLYESTER KNIT FABRIC**

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**CHEMICAL PRODUCT/COMPANY IDENTIFICATION**

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**MATERIAL IDENTIFICATION**HIFLUX  $\phi$ 90™ PET**COMPANY IDENTIFICATION:****MANUFACTURER/DISTRIBUTOR:**

Polynova Composites  
4 Industrial Road, Unit 6  
Milford, MA, 01757 USA

**PHONE NUMBERS:**

Product Information: 508-634-8181

Emergency Number: CHEMTREC 800-424-9300

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**COMPOSITION/INFORMATION ON INGREDIENTS**

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Identification	CAS	Concentration (%)
Poly(ethylene) terephthalate	25038-59-9	89- 99.9
Titanium Dioxide – white types only	13463-67-7	<5
Carbon black – black types only	133-86-4	0-3

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**HAZARDS IDENTIFICATION**

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**POTENTIAL HEALTH EFFECTS:**

Polyester fibers and fabrics present low hazards for usual industrial or commercial handling. If a processing step results in significant airborne fibers, Polynova Composites' recommends an airborne exposure limit of 10 mg fiber as particulate/M3 as a 8 hour time weighted average (TWA)

## MATERIAL SAFETY DATA SHEET

This product may contain up to five percent titanium dioxide (TiO<sub>2</sub>) as a light scattering agent to impart white color. When incorporated into the fiber, we do not believe TiO<sub>2</sub> presents a significant hazard.

**CARCINOGENICITY INFORMATION:**

The following components are listed by IARC, NTP, OSHA, or ACGIH as carcinogens. A "P" indicates a proposed carcinogen.

Material	IARC	NTP	OSHA	ACGIH
Carbon Black	X			

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**FIRST AID MEASURES**

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**FIRST AID:****INHALATION:**

No specific intervention is indicated. Consult a physician if necessary.

**SKIN CONTACT:**

The fibers are not likely to be hazardous by skin contact, but cleansing the skin after use is advisable.

**EYE CONTACT:**

In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes, Call a physician.

**INGESTION:**

No specific intervention is indicated as fibers are not likely to be hazardous by ingestion. Consult a physician if necessary.

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**FIRE FIGHTING MEASURES**

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**FLAMMABLE PROPERTIES:**

Flash Point: Not applicable. Material will burn in a fire.

**FIRE AND EXPLOSION HAZARDS:**

None.

## MATERIAL SAFETY DATA SHEET

Hazardous gases/vapors produced in fire are: aldehydes, ethanol, methanol, acetic acid, acetone, etc.

Combustion products are similar to those of other organic material composed of the same elements.

**EXTINGUISHING MEDIA:**

Water, Foam, Dry Chemical, CO<sub>2</sub>

**FIRE FIGHTING INSTRUCTIONS:**

Evacuate personnel to a safe area. Keep personnel removed upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment.

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**ACCIDENTAL RELEASE MEASURES**

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**SAFEGUARDS (PERSONNEL):**

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

**SPILL CLEAN UP:**

Polyester fibers and fabrics present no unusual spill or release potential. Shovel or sweep up for disposal.

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**HANDLING AND STORAGE**

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**HANDLING (PERSONNEL):**

Avoid breathing hot vapors, oil mists, and airborne fibers. Wash thoroughly after handling

**STORAGE:**

Store in accord with good material handling practices

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**EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**PERSONAL PROTECTIVE EQUIPMENT:**

Generally Applicable Control Measures and Precautions

## MATERIAL SAFETY DATA SHEET

While no special controls or handling procedures are required, it is recommended that exposure to any inhalable material be minimized by the use of adequate ventilation, such as local exhaust, effective containment, and personal cleanliness.

**EYE/FACE:**

Safety Glasses

**EXPOSURE GUIDELINES:**

## Applicable Exposure Limits

## Titanium Dioxide

PEL (OSHA): 15 mg/m<sup>3</sup>, total dust, 8 Hr. TWA  
TLV (ACGIH): 10 mg/m<sup>3</sup>, total dust, 8 Hr. TWA, A4

## Carbon Black

PEL (OSHA): 3.5 mg/m<sup>3</sup>, total dust, 8 Hr. TWA  
TLV (ACGIH): 3.5 mg/m<sup>3</sup>, total dust, 8 Hr. TWA, A4

## Polyethylene Terephthalate

PEL (OSHA): None Established  
TLV (ACGIH): None Established

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**PHYSICAL AND CHEMICAL PROPERTIES**

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**PHYSICAL DATA:**

Melting Point: 250 to 260 deg. C  
Flash Point: 390 deg. C  
Auto-ignition Temperature: 508 deg. C  
Decomposition Temperature: decomposition starts at 285 deg. C  
Water Solubility: negligible  
Color: Clear and colorless, white if product contains TiO<sub>2</sub>, black if product contains carbon black  
Odor: Orderless

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**STABILITY AND REACTIVITY**

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**CHEMICAL STABILITY:**

Stable

**INCOMPATIBILITY WITH OTHER MATERIALS:**

## MATERIAL SAFETY DATA SHEET

None reasonably foreseeable

**DECOMPOSITION:**

None under normal storage conditions

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**DISPOSAL CONSIDERATIONS**

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**WASTE DISPOSAL:**

Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

Polyester fiber is essentially non-biodegradable. It contains no significant percentage of materials extractable by contact with ambient waters.

Polyester fiber and fabrics are not hazardous waste as defined by regulation implementing the Resource Conservation and Recovery Act (RCRA).

Polyester fibers and fabrics are not regulated as hazardous wastes under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and are not subject to the Superfund tax.

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**REGULATORY INFORMATION**

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**U.S. FEDERAL REGULATIONS:****TOXIC SUBSTANCE CONTROL ACT (TSCA):**

Polyester fiber is considered an “article” under provisions of TSCA. All non-exempt chemical substances incorporated into the product or applied to the surface are included in the TSCA Inventory of Chemical Substances compiled by the U.S. Environmental Protection Agency (EPA).

**OCUUPATIONAL SAFETY AND HEALTH ACT (OSHA):**

This product is not a “hazardous chemical” as regulated under the OSHA Hazard Communication Standard (29 CFR 1910.1200). This data sheet is provided merely as an informational resource for our customers.

**Emergency Planning and Community Right-To-Know Act of 1986 (EPCRA):**

Polyester fiber contains no chemicals in concentrations reportable under Section 313 of EPCRA.

**STATE REGULATIONS (U.S.):**

## MATERIAL SAFETY DATA SHEET

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): Polyester fiber contains none of the substances known to the State of California to cause cancer or reproductive toxicity.

**PENNSYLVANIA AND NEW JERSEY RIGHT-TO-KNOW LAWS:**

Polyester fiber may contain carbon black and titanium dioxide, which are listed on both the Pennsylvania and New Jersey Right-To-Know regulatory lists.

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**ADDITIONAL INFORMATION**

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The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS: P.E. Mack  
Milford, MA  
508-634-8181

**EXCLUSION OF LIABILITY**

SOME OF THE INFORMATION PRESENTED AND CONCLUSIONS DRAWN HEREIN ARE FROM SOURCES OTHER THAN DIRECT TEST DATA OF THE PRODUCT ITSELF. THE INFORMATION IN THIS MSDS WAS OBTAINED FROM SOURCES, WHICH WE BELIEVE ARE RELIABLE. TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE. HOWEVER, NEITHER THE ABOVE NAMED SUPPLIER NOR ANY OF ITS SUBSIDIARIES ASSUMES ANY LIABILITY WHATSOEVER FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN. THIS DOCUMENT IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONARY HANDLING OF THE MATERIAL BY A PROPERLY TRAINED PERSON USING THIS PRODUCT. INDIVIDUALS RECEIVING THE INFORMATION MUST EXERCISE THEIR INDEPENDENT JUDGEMENT IN DETERMINING ITS APPROPRIATENESS FOR A PARTICULAR PURPOSE. ALL MATERIALS MAY PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.