

# Safety Data Sheet for Synthetic Fibers

(according to 91/155/EC)

Revised:  
2006-08-17

## Performance Fibers High Tenacity adhesive preactivated

Page 1 of 7

### 1. Product and Supplier Information

#### 1.1. Fiber Product

1.1.1 Appearance: Filament yarn

1.1.2 Fibertype: Polyester (PET)

1.1.3 Chemical Name: Polyethyleneterephthalate

1.1.4 CAS-No.: 25 038-59-9

1.1.5 Trade Mark or Synonyms: Performance Fibers Hochfest

#### 1.2 Company Information

1.2.1 Supplier: Performance Fibers GmbH,  
Berliner Straße 1, D-36251 Bad Hersfeld

1.2.2 Information phone no.: +49 (0)8234-82-1337

### 2. Composition/Information about ingredients

#### 2.1 Composition

		<u>%</u>
2.1.1	Polymer	98-99
2.1.2	Additives	Dyes, where applicable < 3
2.1.3	Other Ingredients	Finish < 1

#### 2.2 Special Ingredients

##### 2.2.1 Finish

The fibre product itself is not toxic. It can contain up to 1 % of finish. The adhesive activating finish component has shown mutagenic and skin irritating behaviour in respective tests, however, the component cannot be detected by analytical means on finished fiber. Consult the manufacturer if the product is to be used for special applications such as in the food industry, or for hygiene, or in the medical or surgical sectors. To date,

## Safety Data Sheet for Synthetic Fibers

(according to 91/155/EC)

Revised:  
2006-08-17

### Performance Fibers High Tenacity adhesive preactivated

Page 2 of 7

proper use of this fibre product has not been associated with any detrimental effects on health.

Finish is applied to most fibers and yarns as a processing aid. The finish, spooling oils and sizes can generally be removed in an aqueous medium if so required.

#### 2.2.2 Solvent

None.

### 3. Potential Hazards

The product is neither cancerogenic, mutagenic nor teratogenic.

### 4. First Aid

#### 4.1 Inhalation

Inhalation hazards of this product are negligible pending possible imposition of threshold limit values. Therefore no special precautionary measures are necessary.

Inhalation of fiberfly, dust and finish decomposition products should be avoided by hood suction or fresh air ventilation. In case of coughing or other symptoms the person should seek fresh air and - if necessary - see a physician.

#### 4.2 Eye contact

In case of eye contact, rinse with plenty of water. In case of persistent irritation see physician.

#### 4.3 Skin contact

Wash with soap and water. In case of irritation see physician.

#### 4.4 Ingestion

No special measures necessary.

### 5. Measures in case of fire

# Safety Data Sheet for Synthetic Fibers

(according to 91/155/EC)

Revised:  
2006-08-17

## Performance Fibers High Tenacity adhesive preactivated

Page 3 of 7

### 5.1 Burning Behavior

Combustion temperature: Not applicable  
Product will burn in a fire.  
Autoignition temperature: 515 °C      DIN 51794  
Thermal decomposition: > 300 °C

#### Hazardous Decomposition Products:

Carbonmonoxide, carbondioxide and low-molecular-weight organic compounds depending on temperature and air supply.

#### Unusual Fire and Explosion Hazards:

Fiber dust and fly could represent a fire hazard at sufficient concentrations. Remove ignition sources. Beware of electrostatic charges.

### 5.2 Extinguishing Media:

All usual extinguishing media can be used. Do not use water, if fire is caused by an electrical short circuit.

Use selfcontaining breathing apparatus for fire fighting in closed rooms.

### 6. Spills

In case of accidental spills refer to section 5. "Measures in case of Fire" and section 7 "Handling and Storage". During cleanup use proper personal protection.

### 7. Handling and Storage

All packages, cartons or bales must be stored in line with applicable procedures and requirements.

### 8. Limits to Exposure and Personal Safety Measures

## Safety Data Sheet for Synthetic Fibers

(according to 91/155/EC)

Revised:  
2006-08-17

### Performance Fibers High Tenacity adhesive preactivated

Page 4 of 7

**8.1** Avoid accumulation fiber fly, dust and finish decomposition products by sufficient air supply and proper house keeping.

### **8.2 Personal Safety Measures**

#### **8.2.1** Eye Protection

Appropriate Safety Measures e.g. while cutting bale or carton straps.

#### **8.2.2** Skin Protection

Fibers that are processed at high speeds could cause abrasions or cuts. Appropriate protective measures are recommended.

#### **8.2.3** Inhalation

See 4 and 5.

### **8.3 Limits to Exposure**

None.

## **9. Physical and Chemical Properties**

### **9.1 Appearance**

**9.1.1** Form: Filament yarn

**9.1.2** Color: White, whitish or dyed

**9.1.3** Odor: None

### **9.2 Safety Relevant Data**

**9.2.1** Specific density : 1,3 - 1,4 g/cm<sup>3</sup>

**9.2.2** Melting Range: 250 - 260 °C

**9.2.3** Solubility in Water: not soluble

**9.2.4** Solvents: None.

**9.2.5** Autoignition temperature: ) see 5.1

**9.2.6** Decomposition: )..see 10.4

## Safety Data Sheet for Synthetic Fibers

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Revised:  
2006-08-17

**Performance Fibers High Tenacity  
adhesive preactivated**

Page 5 of 7

### 10. **Stability and Reactivity**

**10.1 Chemical Stability:** stable

**10.2 Conditions to avoid**

Temperatures above 300°C will decompose the material if oxygen is present (see also 5.1 and 10.4).

**10.3 Materials to avoid**

Polyester will be decomposed by strong oxidation agents as well as strong acids and caustic.

**10.4 Decomposition**

Hazardous decomposition products see 5.1.

**10.5 Polymerization**

Not applicable.

### 11. **Toxicology**

See 2.2.1.

### 12. **Ecology**

**12.1 Ecotoxicological Information**

The fiber product is not associated with any ecological problems.

The finish may vaporize or decompose at temperatures above 130 °C.

If subsequent processing involves the use of water, the waste water should be given the appropriate treatment in a purifying plant, in line with local regulations.

## Safety Data Sheet for Synthetic Fibers

(according to 91/155/EC)

Revised:  
2006-08-17

**Performance Fibers High Tenacity  
adhesive preactivated**

Page 6 of 7

### 12.2 Ecochemical Information

Under usual soil conditions Polyester is stable and does not decompose.

### 13. Disposal Information

If recycling is not possible, Polyester can be disposed of in a suitable refuse installation or incinerated subject to local regulations.

EWC (European Waste Catalogue) code: 070213

### 14. Transportation

GGVSee/IMDG-Code: UN-Nr. ICAO/IATA-DGR:  
GGVE/GGVS: RID/ADR: ADNR:

Other information:

Not a dangerous substance as defined in the above regulations.

### 15. Regulations

See 14.

### 16. Other Information

This safety data sheet for synthetic fibers uses the format and listing sequence the EC - Material Safety Data Sheet for chemical compounds and preparations. It is intended to provide information about the physical properties, safety aspects, toxicological data and ecological characteristics which are relevant for the use of synthetic fibers in textile and industrial applications, and to recommend safe procedures for handling, storage and transport. Furthermore, it should also serve to provide industrial users of synthetic fibers with the appropriate information to protect both man and the environment. It was not designed with

## Safety Data Sheet for Synthetic Fibers

(according to 91/155/EC)

Revised: 2006-08-17	<b>Performance Fibers High Tenacity adhesive preactivated</b>	Page 7 of 7
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the private end user in mind. It is recommended that supplementary information be requested if an unusual application of synthetic fibers is intended.

The information given here is the best available to the author of this document on the date of issue. It does not constitute a contractual description of the product properties.