

# Comfil

## Safety Data Sheet

Date of issue: 16/4-2010

Comfil® - P / LPET

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### 1. COMPANY – PRODUCT IDENTIFICATION

MANUFACTURER: **Comfil ApS**  
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#### PRODUCT IDENTIFICATION:

Appearance: COMFIL® – P  
 Spools/Fabric/Stockinette or Plate  
 Fiber type/melt: Polyester (PET)  
 Chemical name: Polyethyleneterephthalate / Polyethylenisophthalate – copolymer

Trade name and Synonym: **COMFIL® LPET**

### 2. COMPOSITION – INFORMATION ON CONSTITUENT PARTS

COMFIL® – P Yarn is comingled thermoplastic filaments

Components:	Weight %
Polymer	> 99%
Additives	<0,5%
Other components (spin finish)	<0,5%

The polyester itself is not toxic. It can contain up to 0,5 % of finish. 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 sector.

The **Thermoplastics polymers** used for commingling are high molecular weight polymers.

The CAS (Chemical Abstract Service) reference numbers are respectively, for polypropylene (PP): 9003-07-0, for polyethylene terephthalate (PET): 25038-59-9 and polybutylene terephthalate (PBT): 26062-94-2.

### 3. HAZARD IDENTIFICATION

To date, proper use of this filament product has not been associated with any detrimental effects on health.

### 4. FIRST AID MEASURES

#### General advice

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

#### Inhalation

Move to fresh air. If symptoms persist, call a physician.

#### Skin contact

Wash off with plenty of water. Use a mild soap if available. If skin irritation persists, consult a physician.

#### Eye contact

Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. If eye irritations continue, consult a physician.

#### Ingestion

No special measures are necessary.

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### 5. FIRE-FIGHTING MEASURES

**Flash point:** Not applicable (Products burns in fire)  
**Self-ignition temperature:** 515 °C (DIN 51794)  
**Decomposition temperature:** > 300 °C

#### Suitable extinguishing media

All usual extinguishing media as water, carbon dioxide (CO<sup>2</sup>), foam, dry chemical can be used. Do not use water, if fire is caused by an electrical short circuit. Use self containing breathing apparatus for fire fighting in closed rooms.

#### Hazardous decomposition products

Carbon oxides, carbon monoxide and low-molecular-weight organic compounds depending on temperature and air supply.

#### Further information

The packaging (plastic film, paper, cardboard, wood) and the polymers and additives are likely to burn. Combustion gases are basically carbon dioxide and water vapour. There may be small quantities of carbon monoxide, oxides of sulphur, aldehydes, reactive hydrocarbons and phosphorous compounds in small quantities, which make it necessary to use protective equipment in the event of a major fire.

### 6. ACCIDENTAL SPILLAGE

#### Personal precautions

Ensure adequate ventilation

#### Environmental precautions

No special environmental precautions required.

#### Methods for cleaning up

Pick-up and arrange for disposal in a manner that avoids creating excessive dust. After cleaning, flush away traces with water.

### 7. HANDLING & STORAGE

#### Handling (Technical measures / Precautions / Safe handling advice) :

Take measures to prevent the build up of electrostatic charge.  
Avoid dust formation

#### Storage (Technical measures / Storage conditions):

Store away from excessive humidity to prevent damage to the product and to the packing materials which could lead to storage safety problems.

#### Incompatible material:

Not relevant

### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### Occupational exposure controls

##### Exposure Limit Values

OSHA 15mg/m<sup>3</sup> (total dust.), 5 mg/m<sup>3</sup> (respirable dust)  
ACGIH 5mg/ m<sup>3</sup> TWA (inhalable fraction), 1fibre/cm<sup>3</sup> (respirable fractions)  
UK, IRL OEL 5 mg/m<sup>3</sup> TWA (inhalable dust), 2fibres/cm<sup>3</sup> (respirable fraction)

#### Engineering measures to reduce exposure

Ensure adequate ventilation, especially in confined areas.

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### Personal protection equipment

#### Respiratory protection

Effective dust mask.

If use or application generates dust, use an appropriate respirator with a particulate filter.

#### Hand protection

Rubber or plastic gloves.

#### Eye protection

Safety glasses with side-shields

#### Skin and body protection

Lightweight protective clothing

#### Hygiene measures

General industrial hygiene practice. Regular cleaning of equipment, work area and clothing.

#### Environmental exposure controls

No special environmental precautions required.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Solid
Form:	Continuous filaments / solid
Colour:	Natural or modified by colorants
Odour:	none

Specific temperature at which changes in physical state occur:

Polymers melt at the under mentioned temperatures

Polyethylene	approx. 135°C
Polypropylene	approx. 160°C
Polyethylene terephthalate	approx. 260°C
Polybutylene terephthalate	approx. 225°C
LPET (PET)	approx. 145-180°C

Decomposition temperature: the polymers begin to decompose at 280°C for PP, 300°C for PET and 300°C for PBT

Flash point: none

Explosive properties: none

Density: 1,3-1,4

Solubility: insoluble in water

## 10. STABILITY AND REACTIVITY

### Stability

Stable at normal conditions. Hazardous chemical reactions do not occur.

### Conditions/Materials to avoid

Strong oxidation agents as well as strong acids and caustic.

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**Hazardous decomposition products**

Carbon oxides, carbon monoxide and low-molecular-weight organic compounds depending on temperature and air supply.

**11. TOXICOLOGICAL INFORMATION**

<b>Acute Toxicity:</b>	not relevant
<b>Local effects:</b>	may cause eye/skin irritation or irritation of respiratory tract.
<b>Long term toxicity:</b>	health injuries are not know or expected under normal use not carcinogenic (NTP, IARC, OSHA)

**12. ECOLOGICAL INFORMATION**

The polymers, by virtue of their molecular weight and their nature, are without ecotoxicological effects.

**13. DISPOSAL CONSIDERATIONS**

If recycling is not possible, then depending on local regulations LPET waste can either be considered as inert waste or as common industrial waste. As such it can be landfilled or incinerated in compliance with local regulations. Packaging materials can be taken for local recycling, recovery of waste disposal.

**14. TRANSPORT INFORMATION**

COMFIL® – P Yarn/fabric/Stockinette or Plates products are not considered as hazardous goods by transport regulations. They are not part of the hazardous classes listen in the international regulations. They do no need special procedures under any regulation. For international transport in Europe by (ADR, RID, ADNR), sea (OMI) or air (OAC/IATA or to the US (DOT) or Canada (TDG), they are not shown as a risk category nor qualified by a UNO number or a packing group.

**15. REGULATORY INFORMATION**

COMFIL® – P Yarn/fabric/plates products do not require hazardous product labelling. They are articles and for this reason they have not to be listed in most of the countries, for instance in the list EINECS in Europe, ELINCS, TSCA for the US, DSL and NDSL for Canada. General hygiene and work safety regulations apply.

**16. OTHER INFORMATION**

The information provided in this Safet Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. It is intended only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. It is recommended that supplementary information be requested if an unusual application of hybrid yarn is intended.