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### Section I: Product and Company Identification

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- MICROSPUN Microfiber Towel Fabric made of micro-filaments

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### Section II: Possible Hazards

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- No hazardous product under normal conditions
- Special hazard reference
- Accidental thermal decomposition or melting state may cause hazards

### Section III: Composition/ information on ingredients

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This document provides Material Safety Information (TSIS) for nonwovens on a voluntary basis. The TSIS is a mean of forwarding essential hazard information (including information on transport, handling, storage and emergency actions) from the supplier of a nonwoven product to the recipient of this product. As nonwovens are generally not hazardous, TSIS is not legally requested but must be considered as information. It is based on the EC recommendations for MSDS (EC 1907/2006).

*The information contained in this Material Safety Information Sheet has been compiled to the best of our knowledge upon the explicit request of the customer. Therefore, the manufacturer does not assume any liability with respect to the correctness and/or completeness of the information provided by this Material Safety Information Sheet. The customer in particular shall not be released from his or her duty to check all safety-relevant properties of the delivered nonwovens, and to comply with the local official regulations.*

#### **Chemical nature (product)**

Description: nonwovens made of Polyethylene (PET) and Polyamide being hydro entangled

Microspun

May contain: Polyethylene Terephthalate (PET) and Polyamide

#### *Section IV: Further information*

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- Hydrophilic and antistatic substances

#### *Section V: First-aid Measures*

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- General advice: under normal condition...
- Inhalation: no specific measures to be taken
- Skin contact: no specific measures to be taken
- Eye contact: no specific measures to be taken
- Ingestion: no specific measures to be taken
- Information for the doctor

#### *Section VI: Fire Fighting Measures*

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- Suitable extinguishing means: Pulverized water/ Foam/ Carbon dioxide/ Dry powder
- Unsuitable extinguishing means: Not applicable
- Exposure hazards: Burning may release toxic combustion gases: Carbon oxide, Carbon dioxide, gas generated from the decomposition of Polyamide and Polyethylene Terephthalate (PET).
- Protective equipment for fire fighters: Use full protective clothing against chemicals and self-contained breathing apparatus
- Further information: For flammable and toxic fumes as well as skin contact with molten materials

#### *Section VII: Accidental Release Measures*

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- Personal precautions : Not applicable
- Environmental precautions: Not applicable
- Methods for cleaning: Not applicable
- Further information: Not applicable

#### *Section VIII: Handling and Storage*

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- Handling: Normal requirements
- Protection against fire and explosion: Normal requirements

- Storage: Vertical storage in an appropriate manner in order to avoid the rolls of nonwovens could start rolling (risk of crushing the fabric)
- Humidity protection
- Protection against direct sunrays

**Section IX: Expose Controls and Personal Protection: No specific measures**

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Technical protective measure: No specific measures

Exposure control limits: No specific measures

**Personal protective equipment**

Respiratory protection: No specific measures

Hand protection: No specific measures

Eye protection: No specific measures

Skin protection: No specific measures

**General safety and hygiene measures**

No specific measures

**Section X: Physical and Chemical Properties**

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Appearance: Substrate formed by Polyamide and Polyethylene Terephthalate (PET) filaments of solid nonwoven

Color: White or according to specifications

Odor: Not applicable

**Changes in Physical State**

Boiling point/Boiling range	(°C)	:	Not applicable
Melting point	(°C)	:	220 °C
Freezing temperature	(°C)	:	
Flash point	(°C)	:	Not applicable
Ignition temperature	(°C)	:	> 400 °C
Auto ignition		:	
Explosion hazard		:	Not applicable
Explosion limits	(Vol-%)	:	Not applicable
Vapor pressure	(mbar)	:	Not applicable
Density	(g/cm <sup>3</sup> )	:	180 to 250kg/m <sup>3</sup>
Bulk density	(kg/m <sup>3</sup> )	:	Not applicable
Solubility in water		:	Not applicable
Solubility in other solvents		:	Partially in an acid medium
pH-value		:	Not applicable
Viscosity		:	

Microspun

### *Section XI: Stability and reactivity*

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- Condition to avoid: Under thermal decomposition flammable and toxic fumes may be generated
- Substances to avoid:
- Hazardous decompositions to products: Above 300°C toxic and flammable gases like carbon monoxide can be released
- The generation of decomposition and oxidation products is subject to fire condition. Non burned residues and water contaminated after firefighting should be disposed of in compliance with official regulations
- Additional Information: Molten material should not be contact with skin as it may adhere and cause burns

### *Section XII: Toxicological information*

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- Acute toxicity
- Specific symptoms in animal experiments
- Irritation effects
- Sensitization
- Subacute to chronic toxicity
- Carcinogenicity mutagenicity
- Teratogenicity
- Information from practical experience
- Additional information: No toxic reaction known under normal conditions
- Note: Under decomposition conditions toxic fumes and contaminated water, see section XI

### *Section XII: Ecological information*

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- Biodegradability
- Ecotoxicity
- Further ecological information: For transportation, storage, normal use, no toxicological effect is known
- Possible water pollution if components are washed out

#### *Section XIV: Disposal considerations*

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- Product: Nonwovens can be disposed of as non-hazardous solid waste, under compliance with the local regulations
- The possibility of recycling has been checked
- Disposal code number:
- AVV-Code: 040222

#### *Section XV: Transportation information*

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- Not classified as dangerous in the terms of transport regulations

#### *Section XVI: Regulatory information*

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- Labelling according to EC-regulation: The product is not required to be labelled according to EC regulations

#### *Section XVII: Other information*

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The information contained herein is based on the present state of knowledge and does not therefore guarantee certain properties. The technical safety information sheet only describes the products in aspect to their safety requirements. Recipients of our products must take on responsibility for observing existing laws and regulations.