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**Trade name: Polyamide 6 (PA6) Monofilament yarns**

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Date of issue: 11.05.2007/Version 2.01/chw

replaces issue of : 20.07.2006/chw

**This Safety Information Sheet is NOT a Safety Data Sheet. It has been designed to supply to the industrial user the necessary information for a safe handling of a product, which is not subject legislation of dangerous preparations or substances**

**1. Identification of substance/preparation and company/undertaking**

Product name: **Polyamide 6 (PA6) Monofilament Yarns**  
Producer: **Nexis Fibers Sp. z.o.o.**  
Ul. Walczaka 25  
PL-66-407 Gorzów Wlkp. Poland  
Supplier: **Nexis Fibers AG**  
Gerliswilstrasse 19  
CH-6021 Emmenbrücke (Switzerland)  
Telephone Numbers: Switchboard: +41 41 267 87 87 **Emergency No. +41 41 267 82 22**  
Fax +41 41 267 92 22  
E-Mail: productsafety@nexis-fibers.com

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**2. Composition / information on ingredients**

Chemical nature: Polyamide 6, Poly-( $\epsilon$ -caprolactame)  
CAS No. 25038-54-4  
Physical nature: Monofilament continuous yarn, different dtex and types. Raw white (ecru) or dyed.  
Preparation on the fibre: Normally, the product is coated with a spin finish. Typical amounts vary from 0.02 to 0.6 % depending on yarn type and dtex. Typical spin finish composition: lubricants, emulsifiers, anti-electrostatic agents.

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**3. Hazards identification**

Polyamide 6 yarn products have not been associated with negative effects on humans and environment if used in accordance with good industrial hygiene practice and any legal requirements.

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**4. First-aid measures**

Inhalation: Not specifically concerned  
Skin contact: Not specifically concerned

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In case of fire, the molten product may cause burns. Rinse with plenty of water. Do not attempt to remove clothes (danger of adherence to the skin). Call for a physician.

Eye contact: Not specifically concerned

Ingestion: Not specifically concerned

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**5. Fire-fighting measures**

Fire extinguishing agents: All usual extinguishing media may be used

Restrictions: No restrictions

Specific information for fire-fight: Use autonomous respirators to fight fire indoor or in poorly ventilated areas. Do not use water as extinguishing agent in the presence of uninterrupted electrical installations.

Hazardous decomposition products: Depending on temperature and oxygen availability, combustion off-gases contain variable quantities of toxic substances (carbon monoxide, hydrogen cyanide, various organic compounds) which must not be inhaled.

Emergency Response Intervention (ERI)-Card-number : 4-03

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**6. Accidental release measures**

Accidental dispersion/spill: Collect material for controlled re-use or waste disposal. No special safety risks or risks to the environment.

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**7. Handling and storage**

Fire precautions: Remove dust and fly by ventilation and vacuum cleaning. Keep away from ignition sources. Beware of static electricity and discharges.

Storage: No special safety precautions.

Storage conditions: Consider technical advises referring to optimal processability.

Packaging condition: The product is packed upon delivery in suitable packaging material which may be recycled

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**8. Exposure controls and personal protection**

Components with occupational exposure limits: none  
 Industrial hygiene: No special risks if handled in accordance with good industrial hygiene practice and any legal requirements.  
 Personal protection: According to good practice of textile or polymer industry.

**9. Physical and chemical properties:**

Appearance:	Form:	Monofilament yarns, wound up on suitable spools / cylinders
	Colour:	raw white (ecru)
	Odour:	none
Melting range:	[°C]:	210-220
Flash point:	[°C]:	about 400
Ignition temperature:	[°C]:	about 450
Thermal decomposition:	[°C]:	starts at about 300-350°C. At 150°C evaporation of spin-finish may start
Explosion limits:		not explosible
Density:	[g/cm <sup>3</sup> ]:	1.13 - 1.15
Vapour pressure:		not applicable
Solubility in water:		Granulated Polymer is not water soluble

**10. Stability and reactivity**

Conditions to avoid: none under normal storage conditions  
 Materials to avoid: none under normal storage conditions  
 Hazardous decomposition products: none under normal storage conditions

Combustion off-gases see point 5.

**11. Toxicological information**

The yarn product does not present special risks on humans if used in accordance with good Industrial hygiene practice and the concerning legal requirements.  
 The product is not aseptic.  
 In case of special end uses, Nexis Fibers AG may be contacted for additional information.  
 Spin-finish on the yarn may cause skin-irritation at long-term contact.



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**12. Ecological information**

The Polyamide yarn product is not associated with ecological problems, provided that the wastes are orderly disposed of.

Because of its chemical nature, the product is not ecotoxic and not readily biodegradable.

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**13. Disposal considerations**

Can be disposed of as solid waste or burned in suitable installations, subject to local regulations. Recycling or thermal recycling is recommended for both the product and packaging material

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**14. Transport information**

International regulations:

Class RID/ADR: not classified as hazardous

Class ICAO/IATA: not classified as hazardous

Class OMI/IMDG: not classified as hazardous

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**15. Other information**

This Safety Information Sheet is intended to inform about physical properties, safety aspects, toxicological data and ecological characteristics that are relevant for the use of synthetic fibers in textile, technical and industrial applications, and to recommend procedures for their handling, storage and transport.

This Safety Information Sheet is a complement to Technical Data Sheets but does not replace them. The information given is to the best of our knowledge at the date of issue. It does not constitute a contractual description of product properties. It is not meant to be handed out to private end-users.

The Safety Information Sheet does not disengage the user of his duty to know and to apply any law and regulation that may be relevant.

Additional information may be requested at Nexis Fibers AG if special applications of synthetic fibres are intended.