

Safety Data Sheet

in accordance with Regulation (EC) No. 1907/2006 (REACH)

Edition Date: 17.02.2026

Version 5.10

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Trade name: Polyamide 6

1. Identification of the substance / mixture and of the company / undertaking

1.1 Product identifier:

Polyamide 6 (PA6) Filament Yarns

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Industrial application (tires, MRG, ropes, nets, fabrics...)

1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier:

Nexis Fibers a. s., Chemlonská 1, 066 12 Humenné, Slovakia

Tel. +421 57 787 3145,

e-mail: productsafety@nexis-fibers.com

1.4 Emergency telephone number:

+421 (0)57 787 3370 (Nexis Fibers a. s.) - during normal Slovak business hours

2. Hazards identification

2.1 Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

No need for classification according to GHS criteria for this product.

2.2 Label elements

According to Regulation (EC) No 1272/2008 [CLP]

The product does not require a hazard warning label in accordance with GHS criteria.

2.3 Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

No specific dangers known, if the regulations/notes for storage and handling are considered. The product does not contain a substance above legal limits fulfilling the PBT (persistent / bio accumulative / toxic) criteria or the vPvB (very persistent / very bio accumulative) criteria. Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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3. Composition / information on ingredients

3.1 Substances: Not applicable, this product is a mixture

3.2 Mixtures

Chemical nature of base polymer:

- Polyamide 6 (PA6), Poly(ε-caprolactam) CAS Number 25038-54-4. Amount >98%
- Heat protected yarn types contain alkali-halogenides and copper salts. Amount < 0.2%
- *Content (W/W):* $\geq 0\%$ - $< 0,1\%$
- *CAS Number:* 142-71-2
- *EC-Number:* 205-553-3
- *Acute Tox. 4 (oral) / Skin Corr./Irrit. 1B / Eye Dam./Irrit. 1*
- *Aquatic Acute 1 / Aquatic Chronic 2 / M-factor acute: 10 / H302, H314, H411, H400*
- Spin-finish:
Yarns are treated with a spin-finish; typical content 0.6% - 1.2% of the yarn weight depending on type and dtex. Typical composition: lubricants, emulsifiers and anti-electrostatics

No dangerous ingredients according to Regulation (EC) No. 1272/2008

4. First aid measures

4.1 Description of first aid measures

Inhalation:	Not specifically concerned
Skin contact:	Not specifically concerned. Traces of spin-finish may be washed away with water. 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

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: (Further) symptoms and / or effects are not known so far

Hazards: No hazard is expected under intended use and appropriate handling

4.3 Indication of any immediate medical attention and special treatment needed:

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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5. Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media: water spray, foam, dry powder, carbon dioxide

5.2 Special hazards arising from the substances or mixture

In case of fire can be released

Carbon monoxide (CO) Carbon dioxide (CO₂)

Hydrogen cyanide (HCN)

Nitrogen oxides (NO_x)

Under certain fire conditions, traces of other toxic gases cannot be excluded

5.3 Advice for fire-fighters

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

No special precautions necessary.

6.2 Environmental precautions

No special precautions necessary.

6.3 Methods and material for containment and cleaning up

For small amounts: Pick up with suitable appliance and dispose of.

For large amounts: Pick up with suitable appliance and dispose of.

6.4 Reference to other sections

Information regarding safe handling / exposure controls/personal protection and disposal considerations can be found in section 7, 8 and 13.

7. Handling and storage

7.1 Precaution for safe handling

Store in cool, dry place in tightly closed containers.

Handle the product away from heat source or flames.

Melted product avoid breathing vapours; operate under suction

Prevent formation of dust. Any deposit of dust which cannot be avoided must be removed regularly.

7.2 Conditions for safe storage, including any incompatibilities

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Consider technical advises referring to optimal process ability.

The packages must be kept closed until utilization, particularly when the product is dry, because it absorbs humidity from air.

Store away from the direct rays of the sun in the room with a proper ventilation. Remove dust, ventilation and vacuum cleaning. Keep away from ignition sources. Beware of static electricity. The product is packed upon delivery in suitable packaging material which may be recycled.

7.3 Specific end use: No data available

8. Exposure controls / personal protection

8.1 Control parameters:

Contains no substances with occupational exposure limit values

8.2 Exposure controls:

Personal protective equipment

a) General protective and hygienic measures:

Wash hands during breaks and at the end of the work.

Avoid skin contact with the liquefied material.

Do not inhale dust / smoke / mist.

Avoid close or long term contact with the skin.

b) Body protection:

Protective work clothing

c) Protection of hands:

Protective gloves

d) Eye protection:

Safety glasses

e) Breathing equipment:

Use breathing protection in case of insufficient ventilation

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9. Physical and chemical properties

9.1 Information on basic physical and chemical properties:

a) Appearance	Form - solid, yarn Color - raw white (nature)
b) Odor:	odorless
c) Odor threshold:	not applicable
d) pH:	not applicable insoluble product
e) Melting point/freezing point	255 – 264 °C
f) Initial boiling point and boiling point	not applicable
g) Flash point:	> 400 °C closed cup
h) Evaporation rate:	not applicable
i) Self-in flammability (solid,):	product is not self-igniting
j) Upper/lower flammability or explosive limits:	no data available
k) Vapor pressure:	not applicable
l) Vapor density:	not applicable
m) Relative density	1,14 g/m ³
n) Solubility (ies):	non soluble in water, soluble in formic acid and phenol
o) Partition coefficient:	n-octanol/water not applicable
p) Decomposition temperature:	starts at about 350 °C
q) Density	1,14 g/cm ³
r) Viscosity index (HCOOH)	120-200
s) Explosive properties	non explosive
t) Oxidizing properties	not oxidizer

9.2 Other information:

Oxidizing properties

Fire promoting properties: not fire-propagating

Self-heating substances and mixtures

Self-heating ability: It is not a substance capable of spontaneous heating according to UN transport regulations class 4.2.

Radioactivity: not radioactive

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10. Stability and reactivity

10.1 Reactivity:

No hazardous reactions if stored and handled as prescribed/indicated.

Reaction with	air	water
Flammable gases:	no	no
Toxic gases:	no	no
Corrosive gases:	no	no
Smoke or fog:	no	no
Peroxides:	no	no

10.2 Chemical stability

Stable under normal conditions

Decomposition happens at 350°C. The substance may release oxides of carbon and hydrogen cyanide

10.3 Possibility of hazardous reaction

No dangerous reaction known under conditions of normal use at temperature 350 °C the product decompose

10.4 Conditions to avoid

No further relevant information available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

CO₂, CO, NO_x, HCN

11. Toxicological information

11.1 Information on toxicological effects

a) Acute toxicity:	None under normal usage
b) Skin corrosion/irritation	Spin-finish on the yarn may cause skin irritation at long-term contact. Contact with melted product can cause burns
c) Serious eye damage / irritation	Not classified as irritating to eyes
d) Respiratory or skin sensitization	No information available
e) Germ cell mutagenicity	No information available
f) Carcinogenicity	No information available

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g) Reproductive toxicity	No information available
h) STOT-single exposure	No data available
i) STOT repeated exposure	No data available
j) Aspiration hazard	No hazard

11.2 Information on other hazards

Endocrine disrupting properties

The substance is not identified to have endocrine disrupting properties according to Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 nor is included in the Candidate List of substances of very high concern according to EU REACH Article 59 for having endocrine disrupting properties.

12. Ecological information

12.1 Toxicity

The product is not associated with ecological problems. The information came from the structure. For aquatic organism the product may be non-toxic. In water is not soluble.

12.2 Persistence and degradability

The product in yarn form is inert and not biodegradable. In water is not soluble, but can be separate by appropriate mechanical waste water treatment

12.3 Bio accumulative potential

No further relevant information available

12.4 Mobility in soil

No further relevant information available

12.5 Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative).

12.6 Endocrine disrupting properties

The substance is not identified to have endocrine disrupting properties according to Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 nor is included in the Candidate List of substances of very high concern according to EU REACH Article 59 for having endocrine disrupting properties.

12.7 Other adverse effects

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The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer

13. Disposal Considerations

13.1 Waste treatment methods

Product Disposal: Recycle the material as far as possible

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.

Advice on cleaning and disposal of packaging

Dispose of in accordance with local regulations

14. Transport information

There is no need of labelling the product according to EC directive 67/548, 1999/45, 1907/206 since is not classified as hazardous.

14.1 UN number

not classified as danger product, according to transport regulation.

14.2 UN proper shipping name ADR, ADN, IMDG, IATA

not classified as danger product, according to transport regulation.

14.3 Transport hazard class (es) ADR, ADN, IMDG, IATA

not classified as danger product, according to transport regulation.

14.4 Packing group ADR, IMDG, IATA

not classified as danger product, according to transport regulation

14.5 Environmental hazards: Terrestrial, see, air transport

Class RID/ADR not classified as hazardous material

Class ICAO/IATA not classified as hazardous material

Class OMI/IMDG not classified as hazardous material

14.6 Special precautions for user

No applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Classified as no danger product according to transports regulation.

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15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation EC 1907/2006

Regulation EC 1272/2008

Regulation EC 453/2010

15.2 Chemical safety assessment

Product is exempted of registration under EC 1907/2006 regulation, not classified as hazardous according to EC 1272/2008 regulation, product not needs a chemical safety assessment

16. Other information

The information contained herein is based on our present knowledge.

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 yarns for 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.

Product is not classified as hazardous. Annex with exposure scenario is not foresee, because the use of the product is safe.