



Safety Data Sheet

According to (EC) Nr. 1907/2006

Edition Date: 01.01.2023

Version 3.00

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Trade name: Polyamide 6.10 (PA6.10) Granulate

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

1.1. Product identifier

Polyamide 6.10 (PA6.10) Granulate

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

Yarn production, plastics industry

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, Fax +421 57 772 2650

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

Classification according to Regulation (EC) No 1272/2008

The product is not classified as dangerous according to the Regulation (EC) Nr. 1272/2008

2.2. Label elements The product not needs the labelling n according to Regulation (EC) Nr. 1272/2008

2.3. Other hazards Melted product may cause severe burns.
To the best of our knowledge, Polyamide 6.10 product have not been associated with negative effect on humans if used in accordance with good industrial hygiene practice and any legal requirements

3. Composition / information on ingredients

3.1. Substances Polyamide 6.10 (PA 6.10) Sebacic acid and 1.6-hexanediamine Polymer [CAS No. 9008-66-6] or [CAS No. 9011-52-3] - amount 100%

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

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4. First aid measures

The product is not dangerous when in granulated form. To the best of our knowledge, Polyamide 6.10 product have not been associated with negative effects on humans if used in accordance with good industrial hygiene practice and any legal requirements

4.1. Description of first aid measures

- Inhalation: Not specifically concerned
- Skin contact: After prolonged skin irritation, consult a doctor.
After contact with the molten product, cool rapidly with cold water.
Do not pull solidified product away from the skin. Seek medical treatment.
- Eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- Ingestion: In case of persistent symptoms consult doctor.

4.2. Most important symptoms and effects, both acute and delayed not know

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

In case of contact with melted product or vapours, get immediately medical attention.

5. Firefighting measures

5.1. Extinguishing media

- Suitable: All usual extinguishing media may be used (spray water, foam, carbon dioxide, chemical powder)
- Unsuitable: No restrictions

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)

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

5.3. Advice for firefighters

Use autonomous respirators, integral gas mask with polyvalent filter, gloves, boots, overall, to fight fire indoor or in poorly ventilated areas. Do not use water as extinguishing agent in the presence of uninterrupted electrical installations.

Move away no-protected and no-authorized people

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel:

Move away no-protected and no-authorized person

6.1.2. For emergency responders:

Wear protective gloves, safety goggles, waterproof boots or shoes

6.2. Environmental precautions

The product is not associated with ecological problems. No risks to the environment. Stop the leakage and isolate the area.

6.3. Methods and material for containment and cleaning up

No special safety risks. Collect material for controlled re-use or waste disposal. Polyamide granules left on the floor may cause falls.

6.4. Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

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.

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7.2. Conditions for safe storage, including any incompatibilities

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 Yarn mono / multifilament, tuft, tech. polymer production

8. Exposure controls / personal protection

8.1. Control parameters

Components with critical values that require monitoring at the workplace:
General dust limit values for airborne particles are PEL (OSHA) = 15 mg/m³ (inhalable fraction, TWA) and PEL(OSHA) = 5 mg/m³ (respirable fraction, TWA).

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.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

- | | | |
|-----------------|--------|--------------------|
| (a) Appearance: | Form | solid, granules |
| | Colour | raw white (nature) |
| (b) Odour: | | odourless |

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(c) Odour threshold:	not applicable
(d) pH:	not applicable
(e) Melting point/freezing point	215 – 223 °C
(f) Initial boiling point and boiling point	not applicable
(g) Flash point:	not applicable
(h) Evaporation rate:	not applicable
(i) Self-inflammability (solid,):	product is not self-igniting
(j) Upper/lower flammability or explosive limits:	not applicable
(k) Vapour pressure:	not applicable
(l) Vapour density	not applicable
(m) Relative density	1,06 – 1,10 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	1,06-1,10 g/cm ³
(r) Viscosity index (HCOOH)	120-250
(s) Explosive properties	non explosive
(t) Oxidising properties	not oxidizer

9.2. Other information not available

10. Stability and reactivity

10.1. Reactivity

React with strong oxidizers and with strong acids

10.2. Chemical stability

The polyamide 6.10 granular is a stable product
Decomposition happens at 350°C. The substance may release oxides of carbon and hydrogen cyanide

10.3. Possibility of hazardous reaction

None under normal storage conditions
At temperature 350 °C the product decompose.

10.4. Conditions to avoid No further relevant information available

10.5. Incompatible materials strong oxidizer, strong acids

10.6. Hazardous decomposition products CO₂, CO, NO_x, HCN

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11. Toxicological information

11.1. Information on toxicological effects

(a) Acute toxicity:	none under normal usage.
(b) Skin corrosion/irritation:	contact with melted product can cause burns.
(c) Serious eye damage / irritation:	product is inert.
(d) Respiratory or skin sensitization:	product is inert.
(e) Germ cell mutagenicity:	product is inert.
(f) Carcinogenicity:	product is inert.
(g) Reproductive toxicity:	product is inert.
(h) STOT-single exposure:	no classification in STOT- SE. no
(i) STOT repeated exposure:	classification in STOT- SE.
(j) Aspiration hazard:	no hazard.

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

12.3. Bioaccumulative potential

No further relevant information available.

12.4. Mobility in soil

No further relevant information available

12.5. Results of PBT and vPvB assessment

No further relevant information available

12.6. Other adverse effects

No further relevant information available

13. Disposal considerations

13.1. Waste treatment methods

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

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.

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 1907/206 regulation, not classified as hazardous according to EC 1272/2008 regulation, product not needs a chemical safety assessment

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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 granules in fibers, 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.