

## Trade name: Polyamide 6.12 (PA6.12) Granulate

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

#### 1.1. Product identifier

Polyamide 6.12 (PA6.12) 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 57 771 3145, Fax +421 57 772 2650

E-Mail: productsafety@nexis-fibers.com

#### 1.4. Emergency telephone number:

+421 (0)57 771 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 classified as no dangerous according to the CLP regulation.

#### 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 6.12 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 6.12 ( PA 6.12) [CAS No. 26098-55-5]

Product is produced from Dodecanedioic acid and 1.6-hexanediamine

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

### 4. First aid measures

The product is not dangerous when in granulated form. To the best of our knowledge, polyamide 6.12 product have not been associated with negative effects on humans if used in accordance with good industrial hygiene practice and any legal requirements

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### 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 (CO<sub>2</sub>)  
Hydrogen cyanide (HCN)  
Nitrogen oxides (NO<sub>x</sub>)  
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 non-protected and non-authorized people

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### 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.

#### 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

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### 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/m<sup>3</sup> (inhalable fraction, TWA) and PEL(OSHA) = 5 mg/m<sup>3</sup> (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
(c) Odour threshold:		not applicable
(d) pH:		not applicable
(e) Melting point/freezing point		208 – 215 °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, 05 – 1, 07 g/cm <sup>3</sup>
(n) Solubility (ies):		non soluble in water, soluble in sulphuric acid and phenol
(o) Partition coefficient: n-octanol/water		not applicable
(p) Decomposition temperature:		Starts at about 350 °C
(q) Density		1,05-1,07 g/cm <sup>3</sup>
(r) Viscosity index (H <sub>2</sub> SO <sub>4</sub> )		120-250
(s) Explosive properties		non explosive
(t) Oxidising properties		not oxidizer

#### 9.2. Other information

not available

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### 10. Stability and reactivity

#### 10.1. Reactivity

React with strong oxidizers and with strong acids

#### 10.2. Chemical stability

The polyamide 6.12 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

CO<sub>2</sub>, CO, NO<sub>x</sub>, HCN

### 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.               |
| (i) STOT repeated exposure:            | no 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 wastewater 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

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### 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.

### 14. Transport information

There is no need of labelling the product according to EC directive 67/548, 1999/45, 1907/2006 since it 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 1907/2006 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 Data 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 Data 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 Data 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