Trade name: Polyamide 6.10 (PA6.10) Granulate

1. Identification of substance/preparation and company/undertaking

Product name: Polyamide 6.10 (PA6.10) Granulate

Producer and Supplier: Nexis-Fibers AG
Gerliswilstrasse 19
CH-6021 Emmenbrücke

Telephone Numbers:
Emergency No +041 41 267 81 91
Switchboard: +41 41 267 87 87
Fax: +41 41 267 92 40

E-Mail: productsafety@nexis-fibers.com

2. Hazards identification

No significant hazards to humans and environment are associated with this article, if used in accordance with good industrial hygiene practice.

Eye contact: Not irritating to eyes. During proceeding possible risk of mechanical impact.

Skin contact: Not irritating the skin

Inhalation: Not significant irritation caused by inhalation of polymer dust expected.

Ingestion: No adverse health effects are expected if small amounts are swallowed.

3. Composition / information on ingredients

Chemical nature of base polymer: Polyamide 6.10 Polymer, produced from:
Sebacic acid and 1.6-hexanediarnine [CAS No. 9008-66-6] or [CAS No. 9011-52-3]

4. First-aid measures

Inhalation: Not specifically concerned
Skin contact: Not specifically concerned.

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 professional assistance by a doctor.

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

Protective equipment for fire-fight: Use autonomous respirators to fight fire indoor or in poorly ventilated areas.

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

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. Refer to section 13 for disposal information.

7. Handling and storage

Handling: In accordance with good industrial hygiene and safety practices.
Fire precautions: Remove dust, fly and finish residues by ventilation and vacuum cleaning, especially on heat setting operations. Keep away from ignition sources. Beware of static electricity and discharges.
Storage: No special safety precautions for storage rooms. Stable under normal storage conditions.
Storage conditions: Consider technical advises referring to optimal process ability.

8. Exposure controls and personal protection

No special risks to humans and environment if handled in accordance with good industrial hygiene practice and any legal requirements.

a) Respiratory protection: Avoid inhalation of eventual vapours or smokes during processing.
b) Hand protection: No irritation of the skin is observed, protect hand from physical impact
c) Eye protection: Suitable eye protection is recommended.
d) Skin protection: Respect usual Safety standards for Polymer industries.
e) Occupational exposure limits: none
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9. Physical and chemical properties:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Monofilament yarns, wound up on suitable spools / cylinders</td>
</tr>
<tr>
<td>Colour</td>
<td>raw white (ecru) or spun dyed</td>
</tr>
<tr>
<td>Odour</td>
<td>none</td>
</tr>
<tr>
<td>Melting range</td>
<td>215 - 223</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 350</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>about 415</td>
</tr>
<tr>
<td>Thermal decomposition</td>
<td>starts at about 350°C.</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>not explosive</td>
</tr>
<tr>
<td>Density</td>
<td>1.06 - 1.10</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>not applicable</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Granulate is not water soluble</td>
</tr>
<tr>
<td>VOC-Content</td>
<td>&lt; 1%</td>
</tr>
</tbody>
</table>

10. Stability and reactivity

<table>
<thead>
<tr>
<th>Condition</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conditions to avoid</td>
<td>none under normal storage conditions</td>
</tr>
<tr>
<td>Materials to avoid</td>
<td>none under normal storage conditions</td>
</tr>
<tr>
<td>Hazardous decomposition products</td>
<td>none under normal storage conditions</td>
</tr>
<tr>
<td>Combustion off-gases</td>
<td>see point 5.</td>
</tr>
</tbody>
</table>

11. Toxicological information

No literature found where this type of yarn articles is described to present a special risk or toxicity. The product is not aseptic.

12. Ecological information

The 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. Waste water from proceeding steps should be disposed of in waste water treatment plants according to local regulations.

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 material
Class ICAO/IATA: not classified as hazardous material
Class OMI/IMDG: not classified as hazardous material

15. Regulatory information

The polymer is not mentioned in the inventories of hazardous materials like EINECS

16. Other information

This Safety Data Sheet follows the EC-Regulation 1907/2006 dated 18.12.2006, Annex II though the yarns are classified as articles with no obligation for a Safety Datasheet as per REACH Article 31 or ECHA “Guidance for Articles” (2008). It is intended to inform about physical properties, safety aspects, toxicological data and ecological characteristics that are relevant for the use of the yarn in textile and industrial applications, and to recommend procedures for 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.

The Safety Data Sheet is not meant to be handed out to private end-users. It 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 the polymer are intended.