

1. Identification of the substance/preparation and of the company

Trade name / Use of the product:

**bioFila® - Filament**  
**biodegradable biopolymer for 3D printing**

Supplier:

twoBEars GbR  
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2. Hazards identification:

Not dangerous

3. Composition / information on ingredients

chemical characteristics:

- I) Polymere based on renewable raw-material
- II) if necessary: filler
- III) if necessary: additives
- IV) if necessary: pigments

4. First-aid measures

If swallowed drink 2-3 cups of water and if necessary seek medical advice.

5. Fire-fighting measures

Suitable fire extinguishing media: Water, CO  
Special exposure hazards: SO  
Protective equipment: breathing protection, protective clothes

6. Accidental release measures

see 8. Exposure controls / personal protection and 13. Disposal considerations  
collect the material and pack in carton or sacks.

7. Handling and storage

handling: no special handling instructions  
storage: proper package, store cool and dry

8. Exposure controls / personal protection equipment (PSP)
No risk known, to pretend any risk, flow the general handling instructions: technical safety measures: suitable ventilation, to pretend any threshold limits. Avoid electrostatic charge by use of grounding cables PSP: use adequate safety equipment, e.g. protections clothes, eye protection glasses, heat protection gloves. In case of dust, use mask with particle filter work hygiene: no eating or drinking during working. avoid contact with hot material, avoid breathing dust and vapours.
9. Physical-chemical properties
form: filament / plastic wire odor: none or weak sweet, Keiner bis leicht süßlich, like wood pH-value (with 100g/l H melting point / range: 120-200°C ignition temperature: not tested decomposition temperature: 205-210°C density: 1,1-1,3 g/m solubility in H <sub>2</sub>
10. Stability and reactivity
Under normal conditions the processing and compounding is stable and there are no observable hazardous reactions nor products of decomposition.
11. Toxicologic Information
No toxicologic short-term or long-term effects are known.
12. Environmental Information
The material is only composed of eco-friendly components. So the material can be count as eco-friendly.
13. Information about disposal
The best way of disposal is I.) Recycling, i.e. recovery of the material or II.) brun, with due regard to the local laws and regulations
14. Information about transport
No separate regulations for transport. The material has to be proper packed and dry during transport. The Material is not hazardous goods in the meaning of the transport regulations.
15. Legal provisions
No separate regulations.
16. Other Information
bioFila ® has to be properly handled and only for the appropriate use. Therefore the user has to ensure the apply of the safety guidelines.
Comments
<b><i>All information based on the current knowledge and experience, out of this information any legally binding warranty of defined features can not be deduced.</i></b>