

## Safety Data Sheet

according to EU Directive 1907/2006

according to EO Directive 1907/2006		
Product name: Date of issue:	Bio-Flex <sup>®</sup> F 7510 (previously V 153302) Version: 1.0   23 February 2016 Version: 1.0	
1. Designation of product, preparation and manufacturer		
Trade name:	Bio-Flex <sup>®</sup> F 7510 (previously V 153302)	
Use of product:	Biodegradable polymer compound suitable for injection moulding and production of filaments, e.g. for 3D printing. The biobased carbon content (BCC) is > 80 % (calculated).	
Manufacturer:	FKuR Kunststoff GmbH Siemensring 79 D - 47 877 Willich Phone: + 49 2154 / 92 51-0 Fax: + 49 2154 / 92 51-51 Emergency phone number: +49 2154 / 9251-0	
2. Hazard identification		
Classification:	No need for classification according to GHS criteria for this product (according to Regulation (EC) No. 1272/2008 [CPL]).	
Label elements:	According to Regulation (EC) No. 1272/2008 (CLP) this product does not require a hazard warning label in accordance with GHS criteria.	
Special advice on hazards:	Danger of burns in contact with hot polymer. Hazardous vapours in case of burning.	
3. Composition / information on ing		
Chemical characteristics:	Biodegradable batch based on PLA, contains copolyester and additives.	
CAS No:	PLA: 9051-89-2	
Additional information:	no harmful ingredients	
4. First-aid measures		
On skin contact: After inhalation:	In case of contact with molten polymer immediately cool the skin with cold water. Medical aid may be required to remove adhering material and for treatment of burns. After inhalation of decomposition gases or dust remove patient to fresh air. Contact a doctor	
On ingestion: On eyes contact:	in case of discomfort. No effects known. Rinse mouth with water and drink more water. Contact a doctor in case of discomfort. Rinse open eyes thoroughly with water.	
5. Fire-fighting measures	Water druck entited autientick on form contain distribu	
Suitable fire extinguishing media: Special exposure hazards:	Water, dry chemical extinguisher, foam, carbon dioxide. During incomplete combustion release of carbon monoxide, tetrahydrofurane, acetic acid and decomposition products possible.	
Special protective equipment: Remark:	Self-contained breathing apparatus. Accumulations of dust can be inflammable.	
6. Accidental release measures		
Personal precautions:	Use suitable protective clothing. Avoid eye contact and inhalation of dusts. Keep ignition sources away.	
Methods for cleaning up:	Sweep up material and place in a container, risk of slipping. Avoid ingress of material into drainage systems.	
7. Handling and storage		
Handling: Storage:	Avoid contact with molten polymer. Avoid generation of dust and electrostatic charge. Protect against moisture and UV radiation. Store cool and keep packaging closed when not in use. Avoid sources of ignition.	
8. Exposure controls / personal protection		
Technical safety measures:	With suitable ventilation the threshold limits assumably will not be reached. Avoid electrostatic charge by use of grounding cables.	
Personal safety equipment:	Use adequate safety equipment, e.g. protective clothing, eye protection glasses, heat protection gloves. In case of dust formation wear mask with particle filter.	
Work hygiene:	No eating or drinking during working. Avoid contact of hot material with the skin. Avoid breathing dust and vapours.	



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9. Physical and chemical properties		
Form: Colour: Odour: Melting range: Oxidising properties: Explosions limits: Density: Solubility in water:	Granules natural almost odourless > 155 °C not self igniting / flammable not applicable 1.25 g/cm <sup>3</sup> insoluble	
10. Stability and reactivity		
Stability: Conditions to be avoided: Substances to be avoided: Hazardous decomposition products:	The product is stable at recommended storage contidions. Avoid exposure to extreme heat and all sources of ignition. Thermal decomposition > 240 °C. Strong oxidizing agents. Carbon monoxide, carbon dioxide, aldehydes, acetic acid, tetrahydrofurane, low molecular weight oligomers.	
11. Toxicological information		
Local irritation: Other remarks:	Dust can cause irritation of eyes, respiratory organs and skin. After ingestion stomach pain or nausea are possible. Based on our state of knowledge and experience no injurious health effects are expected if product is properly handled for the designated use.	
12. Ecological information		
Ecotoxical effects: Biological degradation: Bioaccumulation:	No negative ecological effects known at the present state of knowledge, test results are not available. Due to insolubility in water most probably not hazardous to aquatic organisms. Product is biodegradable. Due to its consistency and insolubility in water biological accumulation is not expected.	
13. Disposal considerations		
Product: Uncleaned packaging:	Generation of waste should be minimised, check possibility for recycling. Waste product can be incinerated or dumped together with domestic waste in compliance with local authority requirements. Packaging material has to be emptied completely and disposed in accordance with the regulations. Packaging can be recycled if not contaminated.	
14. Transport information		
Transport regulations:	Not classified as hazardous under transport regulations ADR, ADNR, RID, ICAO/IATA, IMDG/GGVSee.	
15. Regulatory information		
EU regulations: Water exposure class (Germany):	This product does not require a hazard warning label in accordance with EC Directives. 'nwg', no risk of water pollution (classification acc. Att. 1 of VwVwS)	
16. Other information		

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This data is based on the current state of our information and experience. This safety data sheet describes our product in terms of safety requirements. Preceding data is not applicable as a warranty of product properties. It is the responsibility of the recipient to observe the existing legal regulations for the use of this product.