

Safety Data Sheet according to EU Directive 1907/2006

Product name: Date of issue :	Bio-Flex[®] V 135001 14 February 2014	Version:	1.0		
1. Identification of the substance/preparation and of the company					
1.1 Trade name:	Bio-Flex® V 135001				
1.2 Use of the product:	Biodegradable resin for extrusion.				
1.3 Supplier:	FKuR Kunststoff GmbH Siemensring 79 D - 47 877 Willich Phone: +49(0) 2154-9251-0 Fax + 49(0) 2154-925151 Emergency phone number: +49 2154-9251-0				
2. Hazards identification					
2.1 Classification:	Not dangerous according to Directive 67/548/EEC				
2.2 Special advice on hazards:	Danger of burns in contact with hot polymer. Hazardous vapours in case of burning.				
3. Composition / information on ingredients					
3.1 Chemical characteristics:	Biodegradable polymer-blend based o	on polylactic	acid.		
3.2 CAS no: 3.3 Additional information:	PLA : 9051-89-2 no harmful ingredients				
4. First-aid measures					
4.1 On skin contact:4.2 After inhalation:4.3 On ingestion:4.4 On eyes contact:	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 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		,			
5.1 Suitable fire extinguishing media:	water, dry chemical extinguisher, carb	on dioxide			
5.2 Special exposure hazards:5.3 Special protective equipment:5.4 Remark:	During incomplete combustion release carbon dioxide and hydrocarbons. Self-contained breathing apparatus Accumulations of dust can be inflamm		nonoxide,		

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6. Accidental release measures					
6.1 Personal precautions:	Use suitable protective clothing. Avoid eye contact and inhalation of dusts. Keep ignition sources away.				
6.2 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					
7.1 Handling:	Avoid contact with molten polymer. Avoid generation of dust and electrostatic charge.				
7.2 Storage:	Protect against moisture. Store cool and keep packaging closed when not in use. Avoid sources of ignition.				
8. Exposure controls/ personal protection					
8.1 Technical safety measures:	With suitable ventilation the threshold not be reached. Avoid electrostatic ch grounding cables.		-		
8.2 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.				
8.3 Work hygiene:	No eating or drinking during working. Avoid contact of hot material with the skin. Avoid breathing dust and vapours.				
9. Physical and chemical propertie	S				
9.1 Form:9.2 Colour:9.3 Odour:9.4 Melting range:9.5 Oxidising properties:	Granules nature almost odourless 150 - 170 °C not self igniting / flammable				
9.6 Explosions limits:	not applicable				
9.7 Density: 9.8 Solubility in water:	1.2 - 1.3 g/cm³ insoluble				
10. Stability and reactivity					
10.1 Stability:	The product is stable at recommende	ed storage co	nditions.		
10.2 Conditions to be avoided:	Avoid exposure to extreme heat and Thermal decomposition > 240°C.	all sources of	ignition.		
10.3 Substances to be avoided:	Strong oxidizing agents				
10.4 Hazardous decomposition products:	Carbon monoxide, carbon dioxide, hy	/drocarbons.			

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11. Toxicological information				
11.1 Local irritation:	Dust can cause irritation of eyes, respiratory organs and skin. After ingestion stomach pain or nausea are possible.			
11.2 Other remarks:	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				
12.1 Ecotoxical effects:	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.			
12.2 Biological degradation: 12.3 Bioaccumulation:	Product is biodegradable. Due to its consistency and insolubility in water biological accumulation is not expected.			
13. Disposal considerations				
13.1 Product : 13.2 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				
14.1 Transport regulations:	Not classified as hazardous under tra ADR, ADNR, RID, ICAO/IATA, IMDG			
15. Regulatory information				
15.1 EU regulations:	This product does not require a haza accordance with EC Directives.	rd warning la	oel in	
15.2 Water exposure class (Germany):	'nwg' , no risk of water pollution (classification acc. Att. 1 of VwVwS)			
16. Other information				

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.

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