Safety Data Sheet



according to EU Directive 1907/2006

Product name: Date of issue :	Bio-Flex[®] F 6513 12.10.2012	Version:	1.0			
1. Identification of the substance/preparation and of the company						
1.1 Trade name:	Bio-Flex® F 6513					
1.2 Use of the product:	Biodegradable resin for injection moulding					
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 on polylactic acid (PLA), contains a copolyester and additives.					
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:	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					
4.3 On ingestion:						
4.4 On eyes contact:						
5. Fire-fighting measures						
5.1 Suitable fire extinguishing media:	water, dry chemical extinguisher, foar	n, carbon dio	xide			
5.2 Special exposure hazards:5.3 Special protective equipment:5.4 Remark:	During incomplete combustion releas tetrahydrofurane and decomposition Self-contained breathing apparatus Accumulations of dust can be inflamm	products poss				

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6. Accidental release measures					
6.1 Personal precautions:	Use suitable protective clothing. Avoid eye contact and				
6.2 Methods for cleaning up:	inhalation of dusts. Keep ignition sources away. Sweep up material and place in a container, risk of slipping. Avoid ingress of material into drainage systems.				
7. Handling and storage	5	5 ,			
7.1 Handling:	Avoid contact with molten polymer. Avoid generation of dust				
7.2 Storage:	and electrostatic charge. Protect against moisture. Store cool and keep packaging				
	closed when not in use. Avoid sources of ignition.				
8. Exposure controls/ personal p	protection				
8.1 Technical safety measures:	With suitable ventilation the three	shold limits assum	hably will		
·	not be reached. Avoid electrosta		-		
	grounding cables.		a da taran		
8.2 Personal safety equipment:	Use adequate safety equipment, eye protection glasses, heat prot		otning,		
	In case of dust formation wear m		filter.		
8.3 Work hygiene:	No eating or drinking during worl				
		Avoid contact of hot material with the skin.			
	Avoid breathing dust and vapour	S.			
9. Physical and chemical propert	lies				
9.1 Form:	Granules				
9.2 Colour:	beige				
9.3 Odour:	almost odourless				
9.4 Melting range:	150 - 170° C				
9.5 Oxidising properties:		not self igniting / flammable			
9.6 Explosions limits:	not applicable				
9.7 Density:9.8 Solubility in water:	1,28 - 1,30 g/cm³ insoluble	1,28 - 1,30 g/cm ³			
3.0 Oblubility in water.					
10. Stability and reactivity					
10.1 Stability:	The product is stable at recomm	ended storage co	nditions.		
			et a state a		

10.2 Conditions to be avoided:Avoid exposure to extreme heat and all sources of ignition.
Thermal decomposition > 240°C.10.3 Substances to be avoided:Strong oxidizing agents

10.4 Hazardous decomposition
products:Carbon monoxide, carbon dioxide, aldehydes,
tetrahydrofurane, low molecular weight oligomers.

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Product name: Date of issue :	Bio-Flex® F 6513 12.10.2012	Version:	1.0
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 accumulation is not expected.		-
13. Disposal considerations			
13.1 Product : 13.2 Uncleaned packaging:	Generation of waste should be minim for recycling. Waste product can be together with domestic waste in comp authority requirements. Packaging material has to be emptied disposed in accordance with the regu Packaging can be recycled if not com	incinerated of bliance with lo d completely ilations.	r dumped ocal
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 lal	bel 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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