TIVAR[®] Burnguard PE-UHMW



1. Producer / supplier

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2. Product description			
Commercial product name: These products are ' articles ' ac	TIVAR[®] Burnguard PE-UHMW cording to the Regulation (EC) No 1907/2006 (REAC	СН).	
Material characterization:	Ultra high molecular weight polyethylene + flame retardant [PE-UHMW FR]		
3. Product characteristics			
Form:	semi-finished products (plates) / finished parts mad products	chined from semi-finished	
Colour:	black		
Odour:	odourless	Test methods	
Density:	1.01 g/cm ³	ISO 1183-1	
Melting temperature:	135 °C	ISO 11357-1/-3	
Glass transition temperature:	- Values for this property are only given here for amorphous mater	ISO 11357-1/-2 rials and not for semi-crystalline ones.	
Thermal decomposition:	> 300 °C		
Self-ignition temperature:	> 330 °C	ASTM D 1929	
Solubility in water:	insoluble		
4. Handling and storage			
Machining:	During machining of the semi-finished products, evacuate swarf to prevent slipping or tripping hazard and observe the maximum allowable concentration of dust levels on the workplace which apply in your country. Wear safety goggles during machining.		
Storage:	The products shall be stored indoors in a normal environment (air at 10 - $30^{\circ}C$ / $30 - 70\%$ RH) and kept away from any source of degradation such as sunlight, UV-lamps, chemicals (direct or indirect contact), ionising radiation, flames, etc. Dimensional changes (camber, warpage, shrinkage) of the products as well as slight colour shifts of the external surfaces can occur with time. The latter does generally not pose a problem in case of semi-finished products since the surface-layer is mostly removed anyway upon machining them into finished parts.		
Safety measures:	Standard industrial safety recommendations shall Temperatures above the melting temperature shal		

Please also note the disclaimer on page 2 of this document.

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Fire-fighting measures		
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Suitable extinguishing media:	Water, foam, dry chemical, CO2. Adapted to the nature and extend of fire.	
Hazardous decomposition pro	ducts:	
	The main products formed in case of overheating and combustion are carbon monoxide and carbon dioxide. Formation of further hazardous decomposition products depends upon the fire conditions and cannot be excluded.	
Special protective equipment:	Firemen should wear self-contained breathing apparatus and protective clothin to prevent contact with skin and/or eyes. If exposed to combustion fumes in a high concentration, bring the victim into fresh air. If molten material contacts skin, cool rapidly with cold water and obtain medical attention for removal of adhering material and treatment of the burn.	
Disposal considerations		
According to the (European Wa	ata Catalagua and Hazardaya Wasta List' uncentaminated wasta from the	
	ste Catalogue and Hazardous Waste List', uncontaminated waste from the ardous. The following six-digit codes can be used: 07 02 13 waste plastic from the manufacture, formulation, supply and use of plastics 12 01 05 plastic shavings and turnings 16 01 19 plastic, from end-of-life vehicles from different means of	
	 17 02 03 20 01 39 plastics from municipal wastes (household waste and similar commercial, industrial and institutional wastes) 	
Waste disposal:	When recycling is not feasible, waste disposal by incineration or landfill can be applied. Disposal methods shall conform to local or other government regulations. The products do not contain cadmium pigments or cadmium stabilisers. They are not biologically degradable, but based on the present state of knowledge n negative effects on the environment may be anticipated.	
Marking and transport inf	formation	
Classification and labelling:	Hazard warning labelling in accordance with relevant EC-Directives is not required.	
International transport regulat	ions: Not applicable	
Other information		
	or the latest information on the Mitsubishi Chemical Advanced Material products ogramme, machining instructions, chemical resistance, regulatory information . ncerning the European Regulation (EC) No 1907/2006 (REACH).	

TIVAR® is a registered trademark of Mitsubishi Chemical Advanced Materials.

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