



1. Producer / supplier

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2.	Product description		
	Commercial product name: TIVAR [®] 88 ESd PE-UHMW These products are 'articles' according to the Regulation (EC) No 1907/2006 (REACH).		
	Material characterization:	Ultra high molecular weight polyethylene, partially cro [PE-UHMW-X]	oss-linked + additives
3.	Product characteristics		
	Form:	semi-finished products (plates) / finished parts mach products	ined from semi-finished
	Colour:	blue	T
	Odour:	odourless	Test methods
	Density:	0.93 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 materials	ISO 11357-1/-2 s 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, evan slipping or tripping hazard and observe the maximum dust levels on the workplace which apply in your cou during machining.	n allowable concentration of
	Storage:	The products shall be stored indoors in a normal env 30 - 70% RH) and kept away from any source of deg UV-lamps, chemicals (direct or indirect contact), ionis Dimensional changes (camber, warpage, shrinkage as slight colour shifts of the external surfaces can oc does generally not pose a problem in case of semi-fi surface-layer is mostly removed anyway upon maching parts.	pradation such as sunlight, sing radiation, flames, etc.) of the products as well ocur with time. The latter nished products since the
	Safety measures:	Standard industrial safety recommendations shall be Temperatures above the melting temperature shall b	

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

SHEE

PRODUCT HANDLING INFORMATION





Fire-fighting measures		
Suitable extinguishing media:	Water, foam, dry chemical, CO2. Adapted to the nature and extend of fire.	
Hazardous decomposition pro	oducts: 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 cloth to prevent contact with skin and/or eyes. If exposed to combustion fumes in 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		
	 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 transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance 17 02 03 plastics from municipal wastes (household waste and similar commercial, industrial and institutional wastes) When recycling is not feasible, waste disposal by incineration or landfill can b 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 negative effects on the environment may be anticipated. 	
Marking and transport in	formation	
Classification and labelling:	Hazard warning labelling in accordance with relevant EC-Directives is not required.	
International transport regulations: Not applicable		
Other information		
(product data sheets, delivery pr	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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