## TIVAR<sup>®</sup> 1000 ASTL PE-UHMW



## 1. Producer / supplier

|    |   | Mitsubishi Chemical Advanced Materials<br>I.P. Noord – Galgenveldstraat 12<br>B – 8700 Tielt<br>Tel.: +32/(0)51/42 35 11<br>Fax: +32/(0)51/42 33 00   |  |
|----|---|---|--|
| 2. | Product description   |   |  |
|    | Commercial product name:<br>These products are 'articles' acc | roduct name: <b>TIVAR® 1000 ASTL PE-UHMW</b><br>s are 'articles' according to the Regulation (EC) No 1907/2006 (REACH).   |  |
|    | Material characterization:                                    | Ultra high molecular weight polyethylene + additives  | s [PE-UHMW]  |
| 3. | Product characteristics                                       |   |  |
|    | Form:   | semi-finished products (round rods, plates) / finishe finished products   | ed parts machined from semi-   |
|    | Colour:   | black   | Test methods   |
|    | Odour:  | odourless   | rest methods   |
|    | Density:  | 0.95 g/cm <sup>3</sup>  | ISO 1183-1   |
|    | Melting temperature:  | 135 °C  | ISO 11357-1/-3   |
|    | Glass transition temperature:                                 | -<br>Values for this property are only given here for amorphous materia   | ISO 11357-1/-2<br>als 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, even<br>slipping or tripping hazard and observe the maximu<br>dust levels on the workplace which apply in your co<br>during machining.  | im allowable concentration of  |
|    | Storage:  | The products shall be stored indoors in a normal er<br>30 - 70% RH) and kept away from any source of de<br>UV-lamps, chemicals (direct or indirect contact), ior<br>Dimensional changes (camber, warpage, shrinkage<br>as slight colour shifts of the external surfaces can or<br>does generally not pose a problem in case of semi-<br>surface-layer is mostly removed anyway upon mac<br>parts. | egradation such as sunlight,<br>hising radiation, flames, etc.<br>e) of the products as well<br>occur with time. The latter<br>finished products since the |
|    | Safety measures:  | Standard industrial safety recommendations shall b<br>Temperatures above the melting temperature shall  |  |

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

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| 5. Fire-fighting measures   |  |  |  |
|---|--|--|--|
| Suitable extinguishing media:   | Water, foam, dry chemical, CO2. Adapted to the nature and extend of fire.  |  |  |
| Hazardous decomposition pro   | oducts:<br>The main products formed in case of overheating and combustion are carbon<br>monoxide and carbon dioxide. Formation of further hazardous decomposition<br>products depends upon the fire conditions and cannot be excluded.   |  |  |
| Special protective equipment:   | Firemen should wear self-contained breathing apparatus and protective clothin<br>to prevent contact with skin and/or eyes. If exposed to combustion fumes in a<br>high concentration, bring the victim into fresh air. If molten material contacts<br>skin, cool rapidly with cold water and obtain medical attention for removal of<br>adhering material and treatment of the burn.   |  |  |
| Disposal considerations   |  |  |  |
| According to the 'European Was<br>products is not classified as haza<br>Waste disposal:   | <ul> <li>Ste Catalogue and Hazardous Waste List', uncontaminated waste from the ardous. The following six-digit codes can be used:</li> <li>07 02 13 waste plastic from the manufacture, formulation, supply and use of plastics</li> <li>12 01 05 plastic shavings and turnings</li> <li>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</li> <li>17 02 03 plastic construction and demolition wastes</li> <li>20 01 39 plastics from municipal wastes (household waste and similar commercial, industrial and institutional wastes)</li> <li>When recycling is not feasible, waste disposal by incineration or landfill can be applied. Disposal methods shall conform to local or other government regulations.</li> <li>The products do not contain cadmium pigments or cadmium stabilisers. They are not biologically degradable, but based on the present state of knowledge r negative effects on the environment may be anticipated.</li> </ul> |  |  |
| 7. Marking and transport information  |  |  |  |
| Classification and labelling:   | Hazard warning labelling in accordance with relevant EC-Directives is not required.  |  |  |
| International transport regulations:<br>Not applicable  |  |  |  |
| Other information   |  |  |  |
| Consult the Mitsubishi website for the latest information on the Mitsubishi Chemical Advanced Material products (product data sheets, delivery programme, machining instructions, chemical resistance, regulatory information as well as for our statements concerning the European Regulation (EC) No 1907/2006 (REACH). |  |  |  |
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