Ertalon® 6 SA PA6

MITSUBISHI CHEMICAL GROUP

PRODUCT HANDLING INFORMATION SHEET

1. Producer / supplier

Mitsubishi Chemical Advanced Materials
I.P. Noord – Galgenveldstraat 12
B – 8700 Tielt
Tel.: +32/(0)51/42 35 11
Fax: +32/(0)51/42 33 00

2. Product description

Commercial product name: **Ertalon® 6 SA PA6**
These products are **'articles'** according to the Regulation (EC) No 1907/2006 (REACH).

Material characterization: polyamide 6 [PA 6]

3. Product characteristics

		Test methods
Form:	semi-finished products (round rods, sheets, plates, profiles) / finished parts machined from semi-finished products	
Colour:	natural (white) / black / blue	
Odour:	odourless	
Density:	1.14 g/cm³	ISO 1183-1
Melting temperature:	220 °C	ISO 11357-1/-3
Glass transition temperature:	- Values for this property are only given here for amorphous materials and not for semi-crystalline ones.	ISO 11357-1/-2
Thermal decomposition:	> 350 °C	
Self-ignition temperature:	> 400 °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°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.
The properties of materials which are prone to water absorption, e.g. polyamides, may change significantly with storage time as a result of water absorbed from the environment (this effect depends very much on shape and size of the products, the relative humidity and temperature of the environment and the time). However, this water absorption phenomenon being a reversible one, the original material properties can if necessary be restored by drying them.

Safety measures: Standard industrial safety recommendations shall be observed. Temperatures above the melting temperature shall be avoided.

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5. Fire-fighting measures

Suitable extinguishing media: Water, foam, dry chemical, CO_2. Adapted to the nature and extend of fire.

Hazardous decomposition products:
The main products formed in case of overheating and combustion carbon monoxide, carbon dioxide, nitrogen oxide (NOx) and traces of hydrogen cyanide and ammonia. 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 clothing 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.

6. Disposal considerations

According to the '**European Waste Catalogue and Hazardous Waste List**', uncontaminated waste from the products is not classified as hazardous. 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	plastic construction and demolition wastes
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 no negative effects on the environment may be anticipated.

7. Marking and transport information

Classification and labelling: Hazard warning labelling in accordance with relevant EC-Directives is not required.

International transport regulations:
Not applicable

8. 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).

Ertalon® is a registered trademark of **Mitsubishi Chemical Advanced Materials**.

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