

# SAFETY DATA SHEET

according to the EU directive 91/155/EEC and ISO 11014

722-0649

## DSM Engineering Plastic Products



### 1. Product and company identification

Commercial product name : **TORLON® 4203 PAI**

Company (manufacturer) : Amoco Chemical (Europe) S.A.  
15 rue Rothschild  
1221 Gené 21, Switzerland  
Tel. : +41-22-7150-701  
Fax :

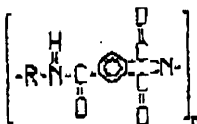
Emergency telephone number (local) :

### 2. Composition/information on ingredients

This product is a chemical substance.

Chemical characterisation (eventually with synonyms) : Polyamideimide with titanium dioxide

Chemical structure : PAI



CAS Nr. ('Chemical Abstract Service Registry Number') : Titanium dioxide : 13463-67-7

### 3. Hazards identification

Most important hazards : No critical hazards for men and environment in case of normal storing, handling and usage.

Specific hazards : N.A.

### 4. First-aid measures

Inhalation : In case the plastic burns and combustion gases are inhaled, immediately leave the room and get medical help.

Skin contact : In case molten material comes in contact with the skin, the skin needs to be rinsed abundantly with cold water. Do not try to remove the molten material. Get medical assistance for the removal of the tacky material and for the medical care of the burn.

### 5. Fire-fighting measures

Suitable extinguishing media : water, foam, dry chemical, CO<sub>2</sub>.

Extinguishing media which must not be used for safety reasons : None.

Special exposure hazards arising from the substance or preparation itself, combustion products or resulting gases :  
See section 10.

Special protective equipment for fire-fighters :

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.

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### 6. Accidental release measures

Personal precautions : N.A.  
Environmental precautions : See section 12 & 13  
Methods for cleaning up : See section 13

### 7. Handling and storage

Handling :  
Technical measures : N.A.  
Precautions : N.A.  
Safe handling advise : During machining of the stock shapes, evacuate swarf to prevent slipping or tripping hazard.

Storage :  
Technical measures : N.A.  
Safe storage conditions : Inert under normal storage conditions  
Incompatible products : N.A.  
Safe packaging materials : N.A.

### 8. Exposure controls/personal protection

Engineering measures to minimize worker exposure : None.  
Personal protection :  
Respiratory protection : None (except when the product burns - cfr. section 4 & 10)  
Hand protection : Gloves in case of frequent contact with warm material.  
Eye protection : Safety goggles during machining.  
Industrial hygiene : Follow good standard industrial practice. No special precautions.

### 9. Physical and chemical properties

According to

Appearance :	Form : Stock shapes (plate, rod, profile and foil) Colour : Brown-green	
Odour :	No special odour	
Change in physical state :	Boiling point/boiling range : N.A. Melting point/melting range : 357°C	
Flash point :	> 500°C	
Vapour pressure :	N.A.	
Self ignition temperature :	N.A.	ASTM D 1929
pH :	N.A.	
Density (at 23°C) :	1.38 g/cm <sup>3</sup>	ISO 1183
Solubility in water :	Negligible	
Thermal decomposition :	N.A.	

N.A. = not applicable

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### 10. Stability and reactivity

Stability : In normal circumstances, the plastic and its chips are stable.

Conditions to avoid : Temperatures above the melting point/melting range (see section 9)

Hazardous decomposition products : The main products formed in case of overheating or combustion are apart from harmless H<sub>2</sub> and CO<sub>2</sub>, mainly CO (depending on the amount of available environmental oxygen) and possibly metaloxides.

### 11. Toxicological information

Acute toxicity : This material is not considered as being harmful to human health.

Local effects : N.A.

### 12. Ecological information

This material does not harm the environment but is not biologically degradable.

### 13. Disposal considerations

Residual waste : When recycling is impossible, incineration or landfill. Disposal methods must conform to local or other government regulations. This product does not contain cadmium pigments or cadmium stabilizers.

Contaminated packaging : N.A.

### 14. Transport information

International regulations : N.A.

### 15. Regulatory information

Classification and labelling according to the relevant EU-directives is not required.

### 16. Other information

Read the product information brochures before using the DSM EPP materials.

#### Note :

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