



# PSU 1000 Safety Sheet

## 1. Product and Company Identification

Commercial Product Name: PSU 1000  
Company (manufacturer): Quadrant EPP Belgium NV  
I.P Noord – R. Tavernierlaan 2  
B – 8700 Tielt

## 2. Product Description

Commercial product name: Polysulphone  
Chemical structure: PSU  
CAS Nr. 25154-01-2

## 3. Hazards Identification

Most important hazards: No critical hazards for man and environment in case of normal storing, handling and usage.  
Specific hazards: Not applicable.

## 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 thoroughly with cold water. Do not try to remove the molten material. Get medical assistance for the removal of the tacky material and care of the burn.

## 5. Fire Fighting Measures

Suitable extinguishing media: Water, foam, cry chemical, CO2.  
Extinguishing media to be avoided: None.  
Special exposure hazards: 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.



## 6. Accidental Release Measures

Personal precautions:	Not applicable
Environmental precautions:	See section 12 & 13
Methods for cleaning up:	See section 13.

## 7. Handling & Storage

### Handling

Technical measures:	Not applicable
Precautions:	Not applicable
Safe handling advice:	During machining of the stock shapes, evacuate swarf to prevent slipping or tripping hazards.

### Storage

Technical measures:	Not applicable
Safe storage conditions:	Inert under normal storage conditions
Incompatible products:	Not applicable
Safe packaging materials:	Not applicable

## 8. Exposure Controls / Personal Protection

Engineering measures to minimise 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 & Chemical Properties

Appearance:	Form:	Stock shapes (plate and rod)
	Colour:	Amber (yellow, translucent)
Odour:		No special odour.
Change in physical state:	Boiling point/boiling range:	Not applicable.
	Glass transition temperature:	190°C.
Flash point:		Not applicable.
Vapour pressure:		Not applicable.
Self ignition temperature:		550°C
pH:		Not applicable.
Density at 23°C:		1.24 g/cm <sup>3</sup>
Solubility in water:		Negligible
Thermal decomposition:		>400°C

## 10. Stability & Reactivity

Stability:	In normal circumstances, the plastic and its chips are stable.
Conditions to avoid:	Temperatures above the glass transition temperature.
Hazardous decomposition products:	The main products formed in case of overheating or combustion are, apart from harmless H <sub>2</sub> O and CO <sub>2</sub> , mainly CO (depending on the amount of available environmental oxygen) and traces of SO <sub>2</sub> and SO <sub>3</sub> .

## 11. Toxicological Information

Acute toxicity:	This material is not considered as being harmful to human health.
Local effects:	Not applicable.



## 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 stabilisers.

Contaminated waste: Not applicable.

## 14. Transport Information

International regulations: Not applicable.