

1. Product and company identification

CELAZOLE® PBI Commercial product name:

Company (manufacturer): Quadrant EPP Belgium NV

I.P. Noord - R. Tavernierlaan 2

B - 8700 Tielt

Tel.: +32-51-42-35-11 Fax: +32-51-42-33-00



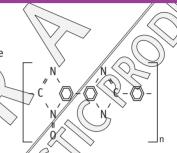
2. Composition and information on ingredients

This product is a chemical substance.

Chemical characterisation (eventually with synonyms): Polybenzimidazole (Poly[2,2-(m-phenylene)-5,5-bi-benzimidazole])

Chemical structure: PBI

CAS Nr. ('Chemical Abstract Service Registry Number'): 25928-81



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

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

Skin contact: In case material comes in contact with the skin, the skin needs to be ringed theroughly 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, dry chemical, CO₂.

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.

ELAZOLE® PBI



6. Accidental release measures

Personal precautions: Not applicable

Environmental precautions: See section 12 & 13

Methods for cleaning up: See section 13

7. Handling and storage

Handling:

Technical measures: Not applicable **Precautions:** Not applicable

During machining of the stock shapes, evacuate swarf to prevent stipping Safe handling advice:

or tripping hazard

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 minimize worker exposure: None.

Personal protection:

None (except when the product burns - thr. section 4 & 10). Respiratory protection: Gloves in case of frequent contact with warm material. Hand protection:

Safety goggles during machining, Eye protection:

Industrial hygiene: Follow good standard industrial practice. No special precautions.

9. Physical and chemical properties

Form: Stock shapes (plate, rod and tube) Appearance:

Colour: Black

Odour: No special odour

Change in physical state: Boiling point/boiling range: Not applicable

Glass transition temperature: 425°C

Flash point: Not applicable

Vapour pressure: Not applicable

Self ignition temperature: Not applicable ASTM D 1929

pH: Not applicable

Density (at 23°C): 1.30 g/cm3 ISO 1183

Solubility in water: Negligible

Thermal decomposition: 500°C **ACCORDING TO**



10. Stability and reactivity

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

High heating rates should be avoided when approaching the temperature of 500°C. Conditions to avoid:

Temperatures above the thermal decomposition temperature (see section 9).

The main products formed in case of overheating or combustion are apart Hazardous decomposition products:

from harmless H₂O and CO₂, mainly CO (depending on the amount of available

environmental oxygen).

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 stabilizers.

Contaminated packaging: Not applicable

14. Transport information

International regulations: Not applicable

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 Quadrant EPP materials.

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