>> POLYBENZIMIDAZOLE [PBI] CELAZOLE® PBI



telephone 0800 321 3085

1. Product and company identification

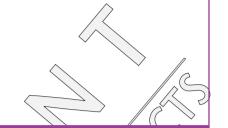
Commercial product name: CELAZOLE® PBI

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



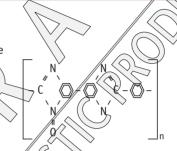
2. Composition and information on ingredients

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, immediately leave the room and get medical help.

In case mother 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 neoical 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.

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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

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

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:

Respiratory protection:

Hand protection:

None (except when the product burns—cfr. section 4 & 10).

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

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

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

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10. Stability and reactivity

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

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

Temperatures above the thermal decomposition temperature (see section 9)

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

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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