

Plastic Material Safety Data Sheet

1. Product and company identification

Commercial product name: Bio-Infinitem®

2. Composition and information on ingredients

This product is a **chemical substance**.

Chemical characterisation (eventually with synonyms): Polyoxymethylene copolymer (Polyacetal copolymer)

Chemical structure: POM-C (CH₂O)_n

CAS Nr. ('Chemical Abstract Service Registry Number'): 24969-25-3 or 25214-85-1

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, 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. Accident 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 slipping or tripping hazard

Storage:

Technical measures:	Avoid exposure to UV-radiation
Safe storage condition:	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 and chemical properties

Properties	Comment	According to
Appearance:	Form: Stock shapes (plate, rod and tube) Colour: Natural (white) / black	
Odour:	No special odour	
Change in physical state:	Boiling point/boiling range: Not applicable Melting point/melting range: 165°C	
Flash point:	Not applicable	
Vapour pressure:	Not applicable	
Self ignition temperature:	375°C	ASTM D 1929
pH:	Not applicable	
Density (at 23°C):	1.41 g/cm ³	ISO 1183
Solubility in water:	Negligible	
Thermal decomposition:	>230°C	

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 material burns with a pale blue, almost colourless flame. The main products formed in case of overheating or combustion are, apart from harmless H ₂ O and CO ₂ , mainly CO (depending the amount of available environmental oxygen) and formaldehyde.

11. Toxicological information

Acute toxicity:	When overheated, toxic formaldehyde is released (see section 10).
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 confirm 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
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15. Regulatory information

Classification and labelling according to the relevant EU-directives is not required. During storage and machining, the maximum allowable concentration on the workshop, which is in effect in your country, should be observed.

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