

Polya BioStar Plus

1. Identification of the substance / Preparation and Company:

Identification of the substance or preparation:

Commercial product name: Polya BioStar Plus A1/B1 with shoulder
 Polya BioStar Plus A2 with shoulder
 Polya BioStar Plus A3 with shoulder
 Polya BioStar Plus A4/B4 with shoulder
 Polya BioStar Plus B2 with shoulder

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2. Composition / Information on Ingredients:

2.1 Polymethyl methacrylate (PMMA): 100 weight %
 2.2 Color pigments: ≤ 0.2 weight %

3. Hazards Identification:

No classification

4. First aid measures:

4.1 Cause: Remedy
 4.2 Inhalation: Bring into fresh air and drink a lot of water. Contact a doctor if discomfort continues.
 4.3 Skin contact: Wash thoroughly with cold water and soap. Consult a doctor should skin irritation occur.
 4.4 Eye contact: Wash out immediately with copious amounts of cool water. Consult a doctor if irritation persists.
 4.5 Swallowing: Consult a doctor if allergic discomfort continues.

5. Fire Fighting measures:

5.1 Indication: Comment
 5.2 Suitable extinguishing agent: Carbon dioxide (CO2), extinguishing powder, foam, water
 5.3 Unsuitable extinguishing agent: Unknown
 5.4 Special risks: Irritant vapours mainly out of methyl acrylate and methyl methacrylate occur in case of fire. Do not inhalation fire and explosive gases.
 5.5 Special protective equipment for firefighting: Wear respiratory protective equipment independent of ambient air in case of fire.
 5.6 Additional instructions: Prevent extinguishing water from penetration surface water or the ground water system.

6. Measures in case of unintended release:

6.1 Personal precautionary measures: Use personal protective equipment.
 6.2 Environmental protection measures: Prevent from penetrating surface water or the sewer system.
 6.3 Cleaning procedure: Pick up mechanically, avoid dust formation, fill into labelled, closable containers

7. Handling and Storage:

7.1 Handling: This product should only be handled by trained personnel.
 Ensure that
 – adequate ventilation and a suitable extraction system is available.
 – occupational exposure limits (OEL) and / or other limit values are observed

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- 7.2 Storage: Ensure that the blanks:
 – are stored dry and protected from light in their original packaging
 – are not exposed to blows or severe vibration
 – are not contaminated
 – are stored between 5°C and 50°C.
- Instructions for common storage: Adhere to VCI storage system rules
 VCI storage class: 11, flammable solids
- 7.3 Specific usage: Please observe instructions for use.

8. Exposure control and personal protective equipment

- 8.1 Exposure limits
 General dust limit value
 TRGS 900: General dust limit value
 Alveolar fraction
 Value 3 mg/m³
 Peak limit 2 (II)
- TRGS 900: General dust limit value
 Inhalable fraction
 Value 10 mg/m³
 Peak limit 2 (II)
- 8.2 Methylmethacrylate
 CAS no. 80-62-6
 EG no. 201-297-1
 TRGS 900
 Value 210 mg/m³ 50 ml/m³
 Peak limit 2 (I)
 Y = A risk of foetal damage is ceased to fear if AGW and BGW will be complied to.
 Indicative occupational exposure limit values - Directive 2009/161/EC: 50 ppm
 Indicative occupational exposure limit values - Directive 2009/161/EC (15 minutes): 100 ppm
- 8.3 Personal protective equipment
 Respiratory protection: Respiratory protection with particle filter EN 143
 Hand protection: Glove materials EN 374-3
 Polyvinyl chloride (PVC): Thickness ≥ 0.5 mm
 Eye protection: Wear safety glasses during grinding work
 Body protection: Protective clothing
 General protective measures: The precautionary measures usual when handling chemicals should be observed. Store working clothes separately

9. Physical and chemical properties:

9.1	Physical properties	
	Flexural strength	[MPa] ≥ 75
	Flexural modulus	[MPa] 2800 (±200)
	Water absorption	[µg/mm ³] ≤ 23
	Solubility	[µg/mm ³] 0,2
	Residual monomer content	[%] 0,4
9.2	General information	
	Appearance:	industrially-manufactured solid
	Colour:	coloured
	Odour:	odourless
	Important information regarding health and environmental protection and safety	
	pH value:	no data available
	Explosion limits:	no data available
	Self-flammability:	no data available
	Solubility:	water insoluble

Polya BioStar Plus**10. Stability and Reactivity:**

10.1	Conditions to be avoided:	None known
10.2	Substances to be avoided:	None known
10.3	Hazardous degradation products:	Toxic gas mixtures with mainly CO and CO ₂ develop at incomplete combustion or carbonization.
10.4	Thermal degradation:	There can be harmful gases and vapors in case of fire or overheating e. g. improper processing.

11. Toxicological Information:

Toxicological information not available

12. Ecological Information:

12.1	Ecotoxicity:	The product is insoluble in water. No ecological problems should be expected if handled and used correctly.
12.2	Mobility:	Not applicable
12.3	Persistence and degradability:	The product is not easily biodegradable.
12.4	Bioaccumulation potential:	Unknown
12.5	Other harmful effects:	Unknown

13. Disposal Considerations:

13.1	Product:	Disposal should conform to federal/national and local regulations
13.2	Packaging:	Non-contaminated and cleaned packaging can be recycled

14. Transport Information:

14.1	Land transportation ADR/RID:	Not hazardous substance
14.2	Air transportation ICAO-TI/IATA-DGR:	Not hazardous substance
14.3	Sea transportation:	Not hazardous substance

15. Legal provisions:

15.1	Labelling in compliance with EU Directive:	Product according to the rules 93/42/EWG of medical devices. Product according to GefStoffV/EG no subject to labelling.
15.2	National regulations:	Water pollution class nwg (not hazardous to water) according to annex 4 VwVwS

16. Other Information:

Information in this safety data sheet is based on the current state of knowledge and experience. The safety data sheet describes products with regard to safety requirements. However, these specifications are no guarantee of product characteristics and do not establish any contractually-legal relationship. The information is designed to provide you with a guide to safe handling of products mentioned in the safety data sheet during storage, transportation, processing and disposal. Insofar as the product named in this safety data sheet is blended, mixed or processed with other materials, or subject to processing, the information in this safety data sheet cannot be transferred to the new material manufactured in this manner, provided nothing else is expressly achieved from this. The information does not have the importance of statements of condition, assurances of certain characteristics or guarantees.