

Safety Data Sheet

hPCMA - PHOTOPOLYMERIZABLE HYDROGEL

According to Regulation (EC) No. 1907/2006

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: hPCMA - Lyophilized Methacryloyl Placenta.
Product reference: PC01.
Brand: Metatissue - Biosolutions, Lda.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: This product is for R&D. Not intended for human or other uses.

1.3 Details of the supplier of the safety data sheet

Supplier: Metatissue - Biosolutions, Lda
PCI - Parque de Ciência e Inovação.
Via do Conhecimento, Edifício Central.
3830-352 Ílhavo
Portugal.

Telephone: +351 234243836
Email: support@metatissue.com
Web: www.metatissue.com

1.4 Emergency telephone number

Emergency phone: 112 (24-hour Emergency Response).

112 is the **European emergency phone number**, available everywhere in the EU, free of charge. You can directly enquire your **Nationally appointed body** for the purpose of emergency health response.

2. Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008. The product does not need label elements.

Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Handle according to good laboratory practice for handling biological products.

3. Composition/information on ingredients

Mixtures

Human proteins isolated from human placentas, methacrylate.

4. First aid measures

4.1 Description of first aid measures

If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash off with soap and plenty of water. Remove clothing, and wash as usual. In the case of skin irritation or allergic reactions consult a physician.
In case of eye contact	Flush eyes with plenty of water as a precaution. Remove contact lenses. Consult a physician.
If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with plenty of water. Do NOT induce vomiting. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

No information available. Treat symptomatically.

5. Firefighting measures

5.1 Extinguishing media

Use extinguishing media appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Product is not flammable nor explosive. Nature of combustion products not known.

5.3 Advice for firefighters

Use extinguishing procedures appropriate to local circumstances and the surrounding environment. Do not inhale explosion and combustion gases. Wear self-contained breathing apparatus for firefighting, if necessary.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation, contact with eyes and skin. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Use personal protection recommended in Section 8.

6.2 Environmental precautions

This product is not classified as dangerous to the environment, however, discharge into the environment must be avoided. Keep the product away from drains, water courses or the soil.

6.3 Methods and material for containment and cleaning up

Sweep up and transfer to properly closed and labelled containers for disposal. After clean-up, disinfect affected area.

6.4 Reference to other sections

See section 8 for more information. For disposal refer to section 13.

7. Handling and storage

7.1 Precautions for safe handling

Avoid inhalation, contact with eyes, skin and clothing. Avoid dust and aerosol formation. Provide appropriate exhaust ventilation at places where dust is formed. Use good laboratory practice for handling biological products.

7.2 Conditions for safe storage, including any incompatibilities

Store in the original flasks. Keep container tightly closed, in a dry, cool, well-ventilated area, protected from light.

Recommended storage temperature: 2-8°C.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. Exposure controls/personal protection

8.1 Control parameters

This product, as supplied, does not contain any substances with occupational exposure limit values.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ventilation is recommended for normal product usage. Eyewash stations.

8.2.2 Personal protective equipment

Use personal protective equipment consistent with good laboratory practice and good occupational hygiene practices.

Eye and face protection:	Use equipment for eye protection: splash resistant safety goggles.
Skin protection:	<u>Hand protection:</u> Handle product with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. <u>Other:</u> Use lab coat.
Respiratory protection:	Respiratory protection is not required. Ensure adequate ventilation.
Thermal hazards:	None.

8.2.3 Environmental exposure controls

No special environmental precautions required, however, discharge into the environment must be avoided. Keep the product away from drains, water courses or the soil.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Physical state	Lyophilized Powder
- Colour:	White, off-white, and/or light yellow
- Odour	No data available
- Melting point/freezing point	No data available
- Boiling point or initial boiling point and boiling range	No data available
- Flammability	No data available
- Lower and upper explosion limit	Does not apply to solids
- Flash point	Does not apply to solids
- Auto-ignition temperature	Does not apply to solids
- Decomposition temperature	No data available
- pH	No data available
- Kinematic viscosity	Does not apply to solids
- Solubility	Soluble in water

- Partition coefficient n-octanol/water (log value)	Does not generally apply to mixtures
- Vapour pressure	No data available
- Density and/or relative density	No data available
- Relative vapour density	Does not apply to solids
- Particle characteristics	Lyophilized Powder, Filaments, and/or Clumps

9.2 Other information

No other properties relevant for the safe use of the product.

10. Stability and reactivity

10.1 Reactivity

Product is nonreactive under normal conditions of storage and use.

10.2 Chemical stability

The product is stable under storage at recommended temperatures (2°C to 8°C).

10.3 Possibility of hazardous reactions

None under normal processing, consistent with good laboratory practice.

10.4 Conditions to avoid

Heat, light, humidity.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating.

11. Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

- Acute toxicity	No data available
- Skin corrosion/irritation	No data available. May cause skin irritation
- Serious eye damage/irritation	No data available. May cause eye irritation
- Respiratory or skin sensitisation	No data available. May be harmful if inhaled
- Germ cell mutagenicity	No data available
- Carcinogenicity	No data available
- Reproductive toxicity	No data available
- STOT-single exposure	No data available

- STOT-repeated exposure No data available
- Aspiration hazard No data available

11.2 Information on other hazards

Endocrine disrupting properties

No data available.

Other information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Potential adverse health effects and symptoms are not known.

12. Ecological information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment unavailable as chemical safety assessment not required or not conducted. This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No information on other adverse effects.

13. Disposal considerations

13.1 Waste treatment methods

Discharge into the environment must be avoided. Keep the product away from drains, water courses or the soil.

This material and its container must be disposed of in accordance with approved disposal techniques. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

Empty containers or liners may retain some product residues, dispose of as unused product.

14. Transport information

This section provides basic classification information for the transport/shipment of the product by road, rail, sea, inland waterways or air, following the Agreement concerning ADR, RID and ADN; IMDG Code, the relevant IMO codes, and ICAO TI.

14.1 UN number or ID number

Not classified as dangerous goods.

14.2 UN proper shipping name

Not classified as dangerous goods.

14.3 Transport hazard class(es)

No transport hazard class (and subsidiary risks) was assigned to the product.

14.4 Packing group

Not applicable.

14.5 Environmental hazards

The product is not environmentally hazardous.

14.6 Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This Safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. Refer to section 13.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

16. Other information

The above information is based on the present state of our knowledge, is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. All materials and mixtures may present unknown hazards and should be used with caution by experienced personnel. The burden of safe use of this material rests entirely with the user. Metatissue assumes no liability for any damages, direct, indirect, consequential or incidental, resulting from handling or from contact with the product.

User assumes all responsibility for compliance with all laws and regulations implicated by use of this material.