

Safety Data Sheet

OkaGel™ (Solid)

SECTION 1. IDENTIFICATION

Product Name: OkaGel™ (Solid)

Chemical Name: Gelatin Methacrylate (GelMA)

Recommended Use: Intended for use in laboratory settings, cell encapsulation, and 3D bioprinting

Restrictions on Use: Not intended for consumption or live human testing

Company Name: GelMA Biotechnologies Ltd.

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SECTION 2. HAZARD IDENTIFICATION

Classification: not hazardous

Label Elements: N/A

Other Hazards: None known

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration	Common name / Synonyms	Other identifiers
Gelatin Methacrylate	2280018-77-9	100%	GelMA	300 g Bloom , 80% degree of substitution

SECTION 4. FIRST-AID MEASURES

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration and obtain medical attention.

Skin Contact: wash contact area with soap and water.

Eye Contact: Flush eyes with running water.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

Most Important Symptoms and Effects, Acute and Delayed: No known adverse health effects of product.

Immediate Medical Attention and Special Treatment: N/A



SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Unsuitable Extinguishing Media: No data available

Specific Hazards Arising from the Product: N/A

Special Protective Equipment and Precautions for Fire-Fighters: Wear self-contained breathing apparatus for firefighting if necessary

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: Use standard laboratory personal protective equipment (gloves, lab coat, protective eyewear). Avoid inhalation of dust.

Methods for Containment and Cleaning Up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling: Handle in area with appropriate exhaust ventilation. When processing, take into consideration the formation of combustible dust. Avoid exposure to bare skin and eyes.

Conditions for Safe Storage: Product is light and moisture sensitive. Keep container tightly closed in a dry and well-ventilated place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Individual Protection Measures

Eye/Face Protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU)

Skin Protection: Handle 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.

Respiratory Protection: Respiratory protection is not required. Where protection from nuisance levels of dusts is desired, use type N95 (US) or P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).



SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: white powder
Odour: Odourless
pH: N/A
Melting Point and Freezing Point: No data available
Initial Boiling Point and Boiling Range: No data available
Flash Point: No data available
Evaporation Rate: N/A
Flammability (solid, gas): N/A

Relative Density (water = 1): 1
Solubility in Water: Water dispersion and solution
Solubility in Other Liquids: No data available
Auto-ignition Temperature: No data available
Decomposition Temperature: No data available
Viscosity: N/A

SECTION 10. STABILITY AND REACTIVITY

Reactivity: No data available
Chemical Stability: Stable under recommended storage conditions (Section 7).
Possibility of Hazardous Reactions: No data available
Conditions to Avoid: Temperatures above 60 ° C.
Incompatible Materials: Strong Oxidizing agents, amines, free radical initiators.
Hazardous Decomposition Products: Hazardous decomposition products formed under fire conditions. – Carbon oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation Skin contact Eye contact Ingestion

Acute Toxicity

LC50: No information available

Skin Corrosion / Irritation: No data available

Serious Eye Damage / Irritation: No data available

STOT (Specific Target Organ Toxicity) - Single Exposure: No data available

Aspiration Hazard: No data available

STOT (Specific Target Organ Toxicity) - Repeated Exposure: No data available

Respiratory and/or Skin Sensitization: No Sensitizing effects known.

Carcinogenicity: No data available

Reproductive Toxicity: No data available

Germ Cell Mutagenicity: No data available

Additional Information: RTECS: LX8580000

Notes: Product not yet fully tested, based on studies conducted on similar products and the structure of this one, it is assumed the product is unclassified.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity No data available

Persistence and Degradability: No data available

Bioaccumulative potential: Bioaccumulation is deemed unlikely Potential

Mobility in Soil: No data available

Other Adverse Effects: No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods: Offer surplus and non-recyclable solutions to a licensed disposal company.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Technical Name (for N.O.S. entry)	Transport Hazard Class(es)	Packing Group
unregulated	N/A	N/A	Gelatin Methacrylate	N/A	N/A

Environmental Hazards: No data available

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: N/A

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations: N/A

SECTION 16. OTHER INFORMATION

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