



## 1 Identification

|  |   |
|--|---|
| <b>Product Identifier</b>  | <b>Gelatin Methacryloyl (GelMA) High Degree of Methacrylation</b>   |
| <b>Supplier</b>  | VoxCell BioInnovation Inc.<br>300 – 637 Bay Street<br>Victoria, British Columbia V8T 5L2<br>Canada<br><a href="mailto:orders@voxcellbio.com">orders@voxcellbio.com</a>  |
| <b>Recommended use and restriction on use</b><br><b>Emergency telephone number and any restrictions on the use of that number, if applicable</b> | For Research and Development use only. Not intended for use by consumers or children.<br>IMMEDIATELY contact the local POISON CONTROL center for your area (24 hours):<br>Alberta 1-800-332-1414<br>British Columbia 1-800-567-8911<br>Manitoba 1-855-776-4766<br>New Brunswick 911<br>Newfoundland and Labrador 1-866-727-1110<br>Northwest Territories 1-800-332-1414<br>Nova Scotia and Prince Edward Island 1-800-565-8161, 1-800-332-1414 or 911<br>Nunavut 1-800-268-9017<br>Ontario 1-800-268-9017<br>Quebec 1-800-463-5060<br>Saskatchewan 1-866-454-1212<br>Yukon Territory 867-393-8700<br>United State call 1-800-222-1222 |
| <b>Substance or mixture</b>  | Substance   |

## 2 Hazard Identification

|  |   |
|--|---|
| <b>Signal Word</b>                                   | None  |
| <b>Pictographs</b>                                   | No symbols  |
| <b>Hazard Classifications and categories</b>         | Does not meet any hazard classification criteria.   |
| <b>Hazard Statements</b>                             | Read the label and this safety data sheet before handling, using or storing this product.   |
| <b>Precautionary Statements</b><br><b>PREVENTION</b> | Avoid skin and eye contact. Do not ingest this product. Avoid breathing dusts, vapors, mists or fume generated when using this product. |



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| <b>RESPONSE</b>                             | Wash skin thoroughly. In the case of eye contact, rinse with water for 15 minutes and obtain medical assistance if irritation occurs or persists. |
| <b>STORAGE</b>                              | Store as a combustible solid. Store at -20°C (-4°F). Shelf life 6 months as received.   |
| <b>DISPOSAL</b>                             | Dispose of unused product and containers in accordance with local regulations.  |
| <b>Other Hazards</b>                        | May cause skin and eye irritation. Ingestion may cause gastrointestinal irritation. May cause respiratory irritation.                             |
| <b>% of ingredients of unknown toxicity</b> | Not applicable – this product does not meet any health hazard classification criteria.  |

### 3 Composition / Information on ingredients

| Chemical Name and Synonyms | CAS #          | Concentration % by weight |
|----------------------------|----------------|---------------------------|
| No hazardous ingredients   | Not applicable | Not applicable            |

### 4 First Aid Measures

#### Description of necessary first aid measures

|   |   |
|---|---|
| <b>INHALATION</b>   | Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Consult a doctor if you feel unwell or if any respiratory irritation should occur.  |
| <b>INGESTION</b>  | Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse out the mouth with water. Get medical attention immediately.   |
| <b>SKIN CONTACT</b>   | Immediately remove contaminated clothing and shoes. Wash the affected area with plenty of soap and water until no evidence of the chemical remains (at least 15-20 minutes). Seek medical attention if symptoms occur.  |
| <b>EYE CONTACT</b>  | Immediately flush eyes with clean water for an extended time, not less than fifteen (15) minutes. Flush longer if there is any indication of residual chemical in the eye. Ensure adequate flushing of the eyes by separating the eyelids with fingers and roll eyes in a circular motion. Seek medical attention if irritation develops or persists. |
| <b>The most important symptoms and effects (acute or delayed)</b> | May cause skin and eye irritation. Ingestion may cause gastrointestinal irritation. May cause respiratory irritation.   |

**Immediate and special treatment**

Treat symptomatically. A copy of this Safety Data Sheet must accompany a worker seeking treatment for potential exposure to this product.

## 5 Fire-Fighting Measures

**Suitable and unsuitable extinguishing media  
Special hazards**

Use water spray, foam, dry chemical or carbon dioxide suitable for surrounding fire.

Closed container may rupture (due to build up in pressure) when exposed to extreme heat.

Irritating or toxic substances may be emitted upon burning, combustion or decomposition including oxides of carbon.

**Special protective equipment and precautions for firefighters**

Wear self-contained breathing apparatus (SCBA) equipped with a full-face piece and operated in a pressure-demand mode (or other positive pressure mode) and approved protective clothing suitable for surrounding fire. Personnel without suitable respiratory protection must leave the area to prevent significant exposure to hazardous gases from combustion, burning or decomposition. In an enclosed or poorly ventilated area, wear SCBA during cleanup immediately after a fire as well as during the attack phase of firefighting operations. See section 9 for additional information.

## 6 Accidental Release Measures

**Personal precautions  
Protective equipment  
Emergency procedures**

Do not touch spilled material without personal protective equipment.

Wear impervious gloves and eye protection.

If spilled in an enclosed area, ventilate. Eliminate ignition sources. Personal protective equipment must be worn.

**Method and materials for containment and clean up**

Do not flush product into public sewer, water systems or surface waters.

Stop leak if without risk. Wear proper personal protective clothing and equipment. Avoid generating dust – shovel or sweep and place into labeled, closed container; store in safe location to await disposal. Change contaminated clothing.

## 7 Handling and Storage

**Precautions for safe handling**

As with any chemical product, use good laboratory/workplace procedures. Use under well-ventilated conditions. Avoid eye and skin


**Conditions for safe storage including incompatibilities**

contact. Avoid inhalation of aerosol, mist, spray, fume, vapor or dust generated by this product. Avoid ingestion of this product.

Store at -20°C (-4°F). Shelf life 6 months as received. Store as a combustible solid. Store under well-ventilated conditions. Store this material away from incompatible substances such as strong oxidizing substances. Keep container closed when not in use.

## 8 Exposure Controls / Personal Protection

**Appropriate engineering controls**

Always provide effective general and, when necessary, local exhaust ventilation to draw spray, aerosol, fume, mist and vapor away from workers to prevent routine inhalation. Ventilation must be adequate to maintain air concentrations below occupational exposure standards. When necessary use mechanical handling to reduce human contact with materials.

**Individual protection measures/personal protective equipment**

Eyewash fountains and safety showers are recommended in the work area.

**Eye/Face  
Skin**

Safety glasses or goggles to prevent contact with eyes.

Use good laboratory/ workplace procedures including personal protective clothing: lab coat and impervious gloves.

**Respiratory**

A respirator should not be required when using or handling this product. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

| Ingredient  | Exposure limit value   |
|---|--|
| No hazardous ingredients – follow local requirements for particles not otherwise listed or specified, such as nuisance dusts. | Recommended: 10 mg/m <sup>3</sup> (inhalable fraction) 3 mg/m <sup>3</sup> (respirable fraction) |

## 9 Physical and Chemical Properties

**Physical State**

Lyophilized solid

**Appearance**

Power to chunks

**Color**

White to off-white

**Odor**

Not available

**Odour Threshold**

Not available

**pH**

Not available

**Melting / Freezing Point °C**

Not available



|   |                    |
|---|--------------------|
| <b>Initial Boiling Point / Boiling Range °C</b>         | Not available      |
| <b>Evaporation Rate</b>                                 | Not available      |
| <b>Flammability</b>                                     | Can be combustible |
| <b>Flash Point °C</b>                                   | Not available      |
| <b>Upper and Lower Flammability or Explosive Limits</b> | Not available      |
| <b>Auto-Ignition Temperature °C</b>                     | Not available      |
| <b>Vapor Pressure</b>                                   | Not available      |
| <b>Vapor Density</b>                                    | Not available      |
| <b>Relative Density</b>                                 | Not available      |
| <b>Solubility</b>                                       | Not available      |
| <b>Partition Coefficient<br/>(n-Octanol/Water)</b>      | Not available      |
| <b>Decomposition Temperature °C</b>                     | Not available      |
| <b>Viscosity</b>  | Not applicable     |
| <b>Particle characteristics</b>                         | Powder or chunks   |

## 10 Stability and Reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | This product is stable.   |
| <b>Chemical stability</b>                 | This product is stable under recommended storage conditions.  |
| <b>Possibility of hazardous reactions</b> | Hazardous polymerization will not occur. May be combustible.  |
| <b>Conditions to avoid</b>                | Excessive heat and sources of ignition.   |
| <b>Incompatible materials</b>             | Avoid strong oxidizing agents. Avoid high temperatures.   |
| <b>Hazardous decomposition products</b>   | Thermal decomposition may produce smoke, carbon monoxide, carbon dioxide, oxides of nitrogen and other products of incomplete combustion. |

## 11 Toxicological Information

|   |                                     |
|---|-------------------------------------|
| <b>Likely route of exposure</b>                           | Eye, skin, inhalation and ingestion |
| <b>Symptoms</b>   |                                     |
| <b>Eyes</b>   | May cause irritation.               |
| <b>Skin</b>   | May cause irritation.               |
| <b>Inhalation</b>   | May cause irritation.               |
| <b>Ingestion</b>  | May cause irritation.               |
| <b>Delayed effects from short- and long-term exposure</b> | Not available                       |



|                              |  |
|------------------------------|--|
| <b>Carcinogenicity</b>       | No component of this product present at concentrations greater than or equal to 0.1% has been identified as a probable, possible or recognized human carcinogen by IARC. |
| <b>Mutagenicity</b>          | Not available  |
| <b>Reproductive toxicity</b> | Not available  |
| <b>Other effects</b>         | To our knowledge, the chemical, physical and toxicological properties have not been fully investigated.  |

| <b>Numerical measures of toxicity including ATEs</b> | <b>LD<sub>50</sub> Oral</b> | <b>LD<sub>50</sub> Dermal</b> | <b>LC<sub>50</sub> (Gas, Vapor, Mist, Fume)</b> |
|--|-----------------------------|-------------------------------|---|
| No hazardous ingredients                             |                             |                               |   |

## 12 Ecological Information

|   |               |
|---|---------------|
| <b>Ecotoxicity, if available</b>        | Not available |
| <b>Persistence and biodegradability</b> | Not available |
| <b>Bioaccumulative potential</b>        | Not available |
| <b>Mobility in soil</b>                 | Not available |
| <b>Other adverse effects</b>            | Not available |

## 13 Disposal Considerations

|                              |   |
|------------------------------|---|
| <b>Disposal instructions</b> | Dispose of unused contents in accordance with national and local regulations.   |
| <b>Disposal methods</b>      | Dispose of container in accordance with national and local regulations. Ensure the use of properly authorized waste management companies, where appropriate. See section 8 for recommendations on the use of personal protective equipment. |

## 14 Transportation Information

|                              |                |
|------------------------------|----------------|
| <b>UN Number</b>             | NOT REGULATED  |
| <b>Proper Shipping Name</b>  | Not applicable |
| <b>Hazard Class(es)</b>      | Not applicable |
| <b>Packing Group</b>         | Not applicable |
| <b>Environmental Hazards</b> | Not applicable |
| <b>Special precautions</b>   | Not applicable |
| <b>Label</b>                 | None           |



**Classification Statement** This product has been classified in accordance with the Transportation of Dangerous Goods Regulations and 49CFR DOT regulations.

## 15 Regulatory Information

|  |   |
|--|---|
| <b>Canada's Domestic Substances List (DSL)</b>     | All ingredients appear on Canada's Domestic Substances List or Non-Domestic Substances List (NDSL) and NDLS substances may be subject to notification depending on volumes – contact us for more information. |
| <b>Significant New Activity notice (SNAc)</b>      | None  |
| <b>National Pollutant Release Inventory (NPRI)</b> | None  |
| <b>Environmental Emergency Regulations (E2)</b>    | None  |
| <b>US TSCA Inventory Status</b>                    | All ingredients appear on the TSCA inventory or are exempted.   |
| <b>Significant New Use Rule</b>                    | None  |
| <b>OSHA SARA III</b>                               |   |
| <b>Emergency Planning (301-303)</b>                | None  |
| <b>Emergency Release (304)</b>                     | None  |
| <b>Storage reporting (311-312)</b>                 | None  |
| <b>CERCLA reportable quantity</b>                  | None  |
| <b>Hazardous Air Pollutants (HAPS)</b>             | None  |
| <b>California Proposition 65</b>                   | None  |
| <b>HMIS</b>  | 1-0-0   |
| <b>European EINECS Inventory</b>                   | All ingredients appear on the list  |

## 16 Other Information

|                                    |   |
|------------------------------------|---|
| <b>Date of the latest revision</b> | January 23, 2025  |
| <b>Revision number</b>             | 2   |
| <b>Revision details</b>            | Storage conditions updated.   |
| <b>Abbreviations</b>               | CERCA – Comprehensive Environmental Response, Compensation and Liability Act<br>EINECS – European Inventory of Existing Commercial Substances<br>EPCRA – Emergency Planning and Community Right to Know Act |



HMIS – Hazardous Materials Identification System – American Coatings Association

OSHA – Occupational Safety and Health Administration

SARA – Superfunds Amendments and Reauthorization Act

TSCA – Toxic Substances Control Act

**SUPPLIERS DISCLAIMER:** The information and the recommendations provided in this Safety Data Sheet (SDS) are believed to be accurate and are given in good faith. However, no warranty, expressed or implied, is given. Since the actual use of the product described herein is beyond our control, VoxCell BioInnovation Inc.

assumes no responsibility or liability arising out of the use of the product by others. Users should make their own investigations to determine the suitability of the information for their purposes. It is the responsibility of the purchaser or user(s) to ensure that their activities comply with all federal, state, provincial or local laws.