

## SAFETY DATA SHEET

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifiers
- Product name : Gelatin methacryloyl (GelMA), Type B Bovine Bone Gelatin  
250-300 bloom - 80% degree of functionalization
- Product Number(s) : SKU0013
- Brand : Gelomics Pty Ltd
- 1.2 Other means of identification:  
Gelatin methacrylate  
Gelatne methacrylamide  
GelMA
- 1.3 Relevant identified uses of the substance of mixture and uses advised against
- Identified uses : **For R&D use only. Not for use in humans or animals.  
Not for use in pharmaceutical, household or other applications.**
- 1.4 Details of the supplier of the safety data sheet
- Company : GELOMICS PTY LTD  
60 Musk Avenue  
Kelvin Grove, QLD 4059  
Australia
- Telephone : +61 1800 865 060
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### SECTION 2: Hazards identification

- 2.1 GHS Classification  
Not a hazardous substance or mixture.
- 2.2 GHS Label elements, including precautionary statements  
Not a hazardous substance or mixture.
- 2.3 Other hazards - none
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### SECTION 3: Composition/information on ingredients

- Substance / Mixture : Substance
- 3.1 Substances  
Synonyms : Gelatin methacrylate  
Gelatine methacrylamide  
GelMA
- No components need to be disclosed according to the applicable regulations.
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### SECTION 4: First aid measure

- 4.1 Description of first aid measures
- If inhaled  
If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact  
Wash off with soap and plenty of water.

In case of eye contact  
Flush eyes with water as a precaution.

If swallowed  
Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed  
No data available

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture  
Carbon oxides, Nitrogen oxides (NO<sub>x</sub>)

5.3 Advice for firefighters  
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information  
No data available

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures  
Avoid dust formation. Avoid breathing vapours, mist or gas.  
For personal protection see section 8.

6.2 Environmental precautions  
No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up  
Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections  
For disposal see section 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling  
Provide appropriate exhaust ventilation at places where dust is formed.  
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities  
Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature 2 - 8 °C

Light sensitive. Heat sensitive. Air sensitive. Handle under nitrogen, protect from moisture.  
Store under nitrogen.

- 7.3 Specific end use(s)  
Apart from the uses mentioned in section 1.3 no other specific.

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## SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters  
Components with workplace control parameters  
Contains no substances with occupational exposure limit values.

- 8.2 Exposure controls  
Appropriate engineering controls  
General industrial hygiene practice.

### Personal protective equipment

#### 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.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

#### Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Respiratory protection is not required. 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).

#### Control of environmental exposure

No special environmental precautions required.

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## SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: fibres Colour: white
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available

k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information  
No data available

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SECTION 10: Sustainability and reactivity

- 10.1 Reactivity  
No data available
- 10.2 Chemical stability  
Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions  
No data available
- 10.4 Conditions to avoid  
No data available
- 10.5 Incompatible materials  
Strong oxidizing agents
- 10.6 Hazardous decomposition products  
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NO<sub>x</sub>)  
Other decomposition products - No data available
- In the event of fire: see section 5

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SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity  
No data available
- Skin corrosion/irritation  
No data available
- Serious eye damage/eye irritation  
No data available
- Respiratory or skin sensitization  
No data available
- Germ cell mutagenicity  
No data available
- Carcinogenicity  
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity  
No data available

Specific target organ toxicity - single exposure  
No data available

Specific target organ toxicity - repeated exposure  
No data available

Aspiration hazard  
No data available

Additional Information  
RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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## SECTION 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 not available as chemical safety assessment not required/not conducted
- 12.6 Other adverse effects  
No data available

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## SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
- Product  
Offer surplus and non-recyclable solutions to a licensed disposal company.
- Contaminated packaging  
Dispose of as unused product.

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## SECTION 14: Transport information

- 14.1 UN number  
ADR/RID: -      IMDG: -      IATA-DGR: -
- 14.2 UN proper shipping name  
ADR/RID:      Not dangerous goods  
IMDG:      Not dangerous goods

	IATA-DGR:	Not dangerous goods		
14.3	Transport hazard class(es)			
	ADR/RID: -	IMDG: -	IATA-DGR: -	
14.4	Packaging group			
	ADR/RID: -	IMDG: -	IATA-DGR: -	
14.5	Environmental hazards			
	ADR/RID: no	IMDG Marine pollutant: no	IATA-DGR: no	
14.6	Special precautions for user			
	None			
14.7	Incompatible materials			
	Strong oxidizing agents			

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## SECTION 15: Regulatory information

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

#### Notification status

AICS: Not in compliance with the inventory - Gelatin Methacrylate

DSL: This product contains the following components that are not on the Canadian DSL nor NDSL. - Gelatin Methacrylate

ENCS: Not in compliance with the inventory - Gelatin Methacrylate

ISHL: Not in compliance with the inventory - Gelatin Methacrylate

KECI: Not in compliance with the inventory - Gelatin Methacrylate

NZIoC: Not in compliance with the inventory - Gelatin Methacrylate

PICCS: Not in compliance with the inventory - Gelatin Methacrylate