

**Kit SDS Cover Sheet****hMSC Adipogenic Maintenance SingleQuots®**

Version 2.0

Revision Date 30.06.2021

Print Date 20.04.2024

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**Product Information**

Commercial : Poietics®  
Product Name  
Product name : hMSC Adipogenic Maintenance SingleQuots®  
Material number : PT-4122

**Components**

Recombinant human insulin 0.1%	SDS attached
Fetal Bovine Serum	SDS attached
L-GLUTAMINE	SDS attached
GA-1000	SDS attached

## SAFETY DATA SHEET

according to Work Health and Safety Regulations 2011

### GA-1000

Version 2.0

Revision Date 30.06.2021

Print Date 20.04.2024

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : GA-1000

### Manufacturer or supplier's details

Company : Capsugel Australia Pty Ltd.  
Suite 610, 12 Century Circuit,  
Norwest NSW 2153, Australia

Lonza Ltd  
Muenchensteinerstrasse 38  
CH-4002 Basel, Switzerland

Telephone : Tel +61 3 9550 0883

Telefax : Tel +61 3 9550 0890

E-mail address : sds@lonza.com

Emergency telephone number : +41 61 313 94 94 (24h)

### Recommended use of the chemical and restrictions on use

Recommended use : Scientific research and development

## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification

Respiratory sensitisation : Category 1

Skin sensitisation : Category 1

### GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H317 May cause an allergic skin reaction.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements : **Prevention:**  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves.  
P285 In case of inadequate ventilation wear respiratory protection.

### Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.

## SAFETY DATA SHEET

according to Work Health and Safety Regulations 2011

### GA-1000

Version 2.0

Revision Date 30.06.2021

Print Date 20.04.2024

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.  
P363 Wash contaminated clothing before reuse.

#### Disposal:

P501 Dispose of contents/ container to a local hazardous waste disposal facility.

#### Other hazards which do not result in classification

No information available.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Gentamicin, sulfate (salt)	1405-41-0	$\geq 3 - < 5$

### SECTION 4. FIRST AID MEASURES

- General advice : When symptoms persist or in all cases of doubt seek medical advice.
- If inhaled : Move to fresh air.  
Call a physician immediately.  
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : After contact with skin, wash immediately with plenty of soap and water.  
Wash clothing before reuse.  
Get medical attention if irritation develops and persists.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
If eye irritation persists, consult a specialist.
- If swallowed : Immediately give plenty of water (if possible charcoal slurry).  
Do not induce vomiting without medical advice.  
Never give anything by mouth to an unconscious person.  
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : Allergic appearance  
sensitising effects
- Notes to physician : Treat symptomatically.

## SAFETY DATA SHEET

according to Work Health and Safety Regulations 2011

**GA-1000**

Version 2.0

Revision Date 30.06.2021

Print Date 20.04.2024

### SECTION 5. FIREFIGHTING MEASURES

- |   |   |   |
|---|---|---|
| Suitable extinguishing media                  | : | Not combustible.<br>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Hazardous combustion products                 | : | No hazardous combustion products are known  |
| Specific extinguishing methods                | : | Use water spray to cool unopened containers.  |
| Special protective equipment for firefighters | : | In the event of fire, wear self-contained breathing apparatus.  |

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- |   |   |   |
|---|---|---|
| Personal precautions, protective equipment and emergency procedures | : | Use respirator when performing operations involving potential exposure to vapour of the product.<br>Refer to protective measures listed in sections 7 and 8.  |
| Environmental precautions   | : | No special environmental precautions required.  |
| Methods and materials for containment and cleaning up               | : | Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). |

### SECTION 7. HANDLING AND STORAGE

- |   |   |   |
|---|---|---|
| Advice on protection against fire and explosion | : | Stable under normal conditions.   |
| Advice on safe handling                         | : | In case of insufficient ventilation, wear suitable respiratory equipment.<br>Avoid exposure - obtain special instructions before use.<br>Use only in area provided with appropriate exhaust ventilation.<br>Avoid contact with skin and eyes. |
| Hygiene measures                                | : | DANGER!<br>Avoid contact with the skin and the eyes.<br>Avoid breathing dust or spray mist.<br>Wash hands before breaks and immediately after handling the product.   |
| Conditions for safe storage                     | : | Keep frozen or refrigerated.  |

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## SAFETY DATA SHEET

according to Work Health and Safety Regulations 2011

### GA-1000

Version 2.0

Revision Date 30.06.2021

Print Date 20.04.2024

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : Provide sufficient air exchange and/or exhaust in work rooms.

#### Personal protective equipment

Respiratory protection : In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hand protection

Material : Nitrile rubber

Rate of permeability : > 480 min

Eye protection : Safety glasses  
Safety goggles

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Complete suit protecting against chemicals

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Aqueous solution

Colour : light yellow

Odour : odourless

Odour Threshold : no data available

pH : no data available

Melting point/freezing point : 0 °C

Initial boiling point and boiling range : no data available

Flash point : Does not sustain combustion.

Evaporation rate : no data available

Flammability (solid, gas) : no data available

Flammability (liquids) : no data available

Upper explosion limit / upper flammability limit : no data available

Lower explosion limit / Lower flammability limit : no data available

Vapour pressure : no data available

Relative vapour density : no data available

**SAFETY DATA SHEET**

according to Work Health and Safety Regulations 2011

**GA-1000**

Version 2.0

Revision Date 30.06.2021

Print Date 20.04.2024

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Relative density	:	no data available
Water solubility	:	soluble
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	no data available
Decomposition temperature	:	no data available
Viscosity, dynamic	:	no data available
Viscosity, kinematic	:	no data available

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	Stable under recommended storage conditions.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Stable under normal conditions.
Conditions to avoid	:	None known.
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	No decomposition if stored normally.

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**SECTION 11. TOXICOLOGICAL INFORMATION****Further information**

Remarks: No data is available on the product itself.

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity**

Toxicity to fish : Remarks: no data available

**Persistence and degradability**

Biodegradability : Result: no data available

**Bioaccumulative potential**

Bioaccumulation : Remarks: no data available

**Mobility in soil**

## SAFETY DATA SHEET

according to Work Health and Safety Regulations 2011

### GA-1000

Version 2.0

Revision Date 30.06.2021

Print Date 20.04.2024

Distribution among environmental compartments : Remarks: no data available

#### Other adverse effects

Additional ecological information : No data is available on the product itself.

## SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Dispose of as unused product.

## SECTION 14. TRANSPORT INFORMATION

#### IATA

Not dangerous goods

UN number : Not applicable  
 Proper shipping name : Not applicable  
 Transport hazard class : Not applicable  
 Packing group : Not applicable  
 Environmental hazards : no

#### IMDG

Not dangerous goods

UN number : Not applicable  
 Proper shipping name : Not applicable  
 Transport hazard class : Not applicable  
 Packing group : Not applicable  
 Environmental hazards : Marine pollutant: no

#### ADR

Not dangerous goods

UN number : Not applicable  
 Proper shipping name : Not applicable  
 Transport hazard class : Not applicable  
 Packing group : Not applicable  
 Environmental hazards : no

## SAFETY DATA SHEET

according to Work Health and Safety Regulations 2011

**GA-1000**

Version 2.0

Revision Date 30.06.2021

Print Date 20.04.2024

**RID** : Not dangerous goods

**UN number** : Not applicable  
**Proper shipping name** : Not applicable  
**Transport hazard class** : Not applicable  
**Packing group** : Not applicable  
**Environmental hazards** : no

**Special precautions for user** : none

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** : Not applicable

## SECTION 15. REGULATORY INFORMATION

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

**Standard for the Uniform Scheduling of Medicines and Poisons**

Not applicable

## SECTION 16. OTHER INFORMATION

Revision Date : 30.06.2021

### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical



**SAFETY DATA SHEET**

according to Work Health and Safety Regulations 2011

**GA-1000**

Version 2.0

Revision Date 30.06.2021

Print Date 20.04.2024

Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System  
Date format : dd.mm.yyyy

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**SAFETY DATA SHEET**

according to Work Health and Safety Regulations 2011

**Recombinant human insulin 0.1%**

Version 2.0

Revision Date 30.06.2021

Print Date 20.04.2024

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : Recombinant human insulin 0.1%

**Manufacturer or supplier's details**Company : Capsugel Australia Pty Ltd.  
Suite 610, 12 Century Circuit,  
Norwest NSW 2153, AustraliaLonza Ltd  
Muenchensteinerstrasse 38  
CH-4002 Basel, Switzerland

Telephone : Tel +61 3 9550 0883

Telefax : Tel +61 3 9550 0890

E-mail address : sds@lonza.com

Emergency telephone number : +41 61 313 94 94 (24h)

**Recommended use of the chemical and restrictions on use**

Recommended use : Scientific research and development

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Not a hazardous substance or mixture.

**GHS label elements**

Not a hazardous substance or mixture.

**Other hazards which do not result in classification**

Insulin: may cause hypoglycaemia.

Insulin is inactivated in the gastro-intestinal tract when ingested.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Hazardous components**

No hazardous ingredients

**SECTION 4. FIRST AID MEASURES**

If inhaled : No special precautions required.

In case of skin contact : Wash with water and soap as a precaution.  
If skin irritation persists, call a physician.

In case of eye contact : Immediately flush eye(s) with plenty of water.

## SAFETY DATA SHEET

according to Work Health and Safety Regulations 2011

### Recombinant human insulin 0.1%

Version 2.0

Revision Date 30.06.2021

Print Date 20.04.2024

- If eye irritation persists, consult a specialist.
- If swallowed : Immediately give large quantities of water to drink.  
Do not induce vomiting without medical advice.  
Never give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed : No information available.
- Notes to physician : No information available.

## SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray  
Dry powder  
Foam
- Hazardous combustion products : No hazardous combustion products are known
- Specific extinguishing methods : Use water spray to cool unopened containers.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
- Environmental precautions : No special environmental precautions required.
- Methods and materials for containment and cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).  
Dispose of in accordance with local regulations.

## SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : No special precautions required.
- Advice on safe handling : No special precautions required.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
- Conditions for safe storage : No special storage conditions required.

## SAFETY DATA SHEET

according to Work Health and Safety Regulations 2011

### Recombinant human insulin 0.1%

Version 2.0

Revision Date 30.06.2021

Print Date 20.04.2024

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : Use only in area provided with appropriate exhaust ventilation.

### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection

Material : Nitrile rubber

Rate of permeability : > 480 min

Eye protection : Tightly fitting safety goggles

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
No special protective equipment required.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Aqueous solution

Colour : colourless

Odour : odourless

Odour Threshold : no data available

pH : 2 - 4

Melting point/freezing point : no data available

Initial boiling point and boiling range : no data available

Flash point : Water

Evaporation rate : no data available

Flammability (solid, gas) : no data available

Flammability (liquids) : no data available

Upper explosion limit / upper flammability limit : no data available

Lower explosion limit / Lower : no data available

## SAFETY DATA SHEET

according to Work Health and Safety Regulations 2011

### Recombinant human insulin 0.1%

Version 2.0

Revision Date 30.06.2021

Print Date 20.04.2024

flammability limit

Vapour pressure : no data available

Relative vapour density : no data available

Relative density : no data available

Density : no data available

Water solubility : completely soluble

Partition coefficient: n-octanol/water : no data available

Auto-ignition temperature : no data available

Decomposition temperature : no data available

Viscosity, dynamic : no data available

Viscosity, kinematic : no data available

## SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable under recommended storage conditions.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Stable under normal conditions.

Conditions to avoid : no data available

Incompatible materials : Strong oxidizing agents

Hazardous decomposition products : No decomposition if stored normally.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Acute oral toxicity : Remarks: no data available

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

### Skin corrosion/irritation

Assessment: No skin irritation

### Serious eye damage/eye irritation

## SAFETY DATA SHEET

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### Recombinant human insulin 0.1%

Version 2.0

Revision Date 30.06.2021

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Assessment: No eye irritation

#### Respiratory or skin sensitisation

Remarks: no data available

#### Germ cell mutagenicity

Genotoxicity in vitro : Remarks: no data available

#### Carcinogenicity

Remarks: no data available

#### Reproductive toxicity

Effects on fertility : Remarks: no data available

#### STOT - single exposure

Remarks: no data available

#### STOT - repeated exposure

Remarks: no data available

#### Further information

Remarks: No data is available on the product itself.

Remarks: Insulin: may cause hypoglycaemia.  
Insulin is inactivated in the gastro-intestinal tract when ingested.  
May cause central nervous system depression.  
May induce sweating, pallor or visual disturbances.

## SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

Toxicity to fish : Remarks: no data available

#### Persistence and degradability

Biodegradability : Result: no data available

#### Bioaccumulative potential

Bioaccumulation : Remarks: no data available

#### Mobility in soil

Distribution among environmental compartments : Remarks: no data available

#### Other adverse effects

Additional ecological information : no data available

## SAFETY DATA SHEET

according to Work Health and Safety Regulations 2011

### Recombinant human insulin 0.1%

Version 2.0

Revision Date 30.06.2021

Print Date 20.04.2024

#### SECTION 13. DISPOSAL CONSIDERATIONS

##### Disposal methods

Waste from residues : Contact waste disposal services.  
Dispose of in accordance with local regulations.

#### SECTION 14. TRANSPORT INFORMATION

##### IATA

Not dangerous goods

UN number : Not applicable  
Proper shipping name : Not applicable  
Transport hazard class : Not applicable  
Packing group : Not applicable  
Environmental hazards : no

##### IMDG

Not dangerous goods

UN number : Not applicable  
Proper shipping name : Not applicable  
Transport hazard class : Not applicable  
Packing group : Not applicable  
Environmental hazards : Marine pollutant: no

##### ADR

Not dangerous goods

UN number : Not applicable  
Proper shipping name : Not applicable  
Transport hazard class : Not applicable  
Packing group : Not applicable  
Environmental hazards : no

##### RID

Not dangerous goods

UN number : Not applicable  
Proper shipping name : Not applicable  
Transport hazard class : Not applicable  
Packing group : Not applicable  
Environmental hazards : no

Special precautions for user : none

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not applicable

## SAFETY DATA SHEET

according to Work Health and Safety Regulations 2011

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Version 2.0

Revision Date 30.06.2021

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## SECTION 15. REGULATORY INFORMATION

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

**Standard for the Uniform Scheduling of Medicines and Poisons**

Not applicable

## SECTION 16. OTHER INFORMATION

Revision Date : 30.06.2021

### Full text of other abbreviations

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Date format : dd.mm.yyyy

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**SAFETY DATA SHEET**

according to Work Health and Safety Regulations 2011

**Recombinant human insulin 0.1%**

Version 2.0

Revision Date 30.06.2021

Print Date 20.04.2024

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**SAFETY DATA SHEET**

according to Work Health and Safety Regulations 2011

**Fetal Bovine Serum**

Version 2.0

Revision Date 30.06.2021

Print Date 20.04.2024

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : Fetal Bovine Serum

**Manufacturer or supplier's details**Company : Capsugel Australia Pty Ltd.  
Suite 610, 12 Century Circuit,  
Norwest NSW 2153, AustraliaLonza Ltd  
Muenchensteinerstrasse 38  
CH-4002 Basel, Switzerland

Telephone : Tel +61 3 9550 0883

Telefax : Tel +61 3 9550 0890

E-mail address : sds@lonza.com

Emergency telephone number : +41 61 313 94 94 (24h)

**Recommended use of the chemical and restrictions on use**

Recommended use : Scientific research and development

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Not a hazardous substance or mixture.

**GHS label elements**

Not a hazardous substance or mixture.

**Other hazards which do not result in classification**

No information available.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Hazardous components**

No hazardous ingredients

**SECTION 4. FIRST AID MEASURES**

If inhaled : No special precautions required.

In case of skin contact : Wash with water and soap as a precaution.  
If skin irritation persists, call a physician.In case of eye contact : Immediately flush eye(s) with plenty of water.  
If eye irritation persists, consult a specialist.

## SAFETY DATA SHEET

according to Work Health and Safety Regulations 2011

### Fetal Bovine Serum

Version 2.0

Revision Date 30.06.2021

Print Date 20.04.2024

- |   |   |  |
|---|---|--|
| If swallowed  | : | Immediately give large quantities of water to drink.<br>Do not induce vomiting without medical advice.<br>Never give anything by mouth to an unconscious person. |
| Most important symptoms and effects, both acute and delayed | : | No information available.  |
| Notes to physician  | : | No information available.  |

## SECTION 5. FIREFIGHTING MEASURES

- |   |   |  |
|---|---|--|
| Suitable extinguishing media                  | : | Water spray<br>Dry powder<br>Foam                              |
| Hazardous combustion products                 | : | No hazardous combustion products are known                     |
| Specific extinguishing methods                | : | Use water spray to cool unopened containers.                   |
| Special protective equipment for firefighters | : | In the event of fire, wear self-contained breathing apparatus. |

## SECTION 6. ACCIDENTAL RELEASE MEASURES

- |   |   |   |
|---|---|---|
| Personal precautions, protective equipment and emergency procedures | : | Use personal protective equipment.  |
| Environmental precautions   | : | Prevent product from entering drains.   |
| Methods and materials for containment and cleaning up               | : | Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). |

## SECTION 7. HANDLING AND STORAGE

- |   |   |  |
|---|---|--|
| Advice on protection against fire and explosion | : | No special precautions required.                                       |
| Advice on safe handling                         | : | No special precautions required.                                       |
| Hygiene measures                                | : | Handle in accordance with good industrial hygiene and safety practice. |
| Conditions for safe storage                     | : | Keep tightly closed.<br><br>Store in cool place.                       |

## SAFETY DATA SHEET

according to Work Health and Safety Regulations 2011

### Fetal Bovine Serum

Version 2.0

Revision Date 30.06.2021

Print Date 20.04.2024

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : Avoid splashes.

### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection

Material : Nitrile rubber

Rate of permeability : > 480 min

Eye protection : Tightly fitting safety goggles

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
No special protective equipment required.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Aqueous solution

Colour : brown

Odour : no data available

Odour Threshold : no data available

pH : 6,8 - 8,3

Melting point/freezing point : no data available

Initial boiling point and boiling range : no data available

Flash point : no data available

Evaporation rate : no data available

Flammability (solid, gas) : no data available

Flammability (liquids) : no data available

Upper explosion limit / upper flammability limit : no data available

Lower explosion limit / Lower : no data available

## SAFETY DATA SHEET

according to Work Health and Safety Regulations 2011

### Fetal Bovine Serum

Version 2.0

Revision Date 30.06.2021

Print Date 20.04.2024

flammability limit

Vapour pressure : no data available

Relative vapour density : no data available

Relative density : no data available

Density : no data available

Water solubility : no data available

Partition coefficient: n-octanol/water : no data available

Auto-ignition temperature : no data available

Decomposition temperature : no data available

Viscosity, dynamic : no data available

Viscosity, kinematic : no data available

## SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable under recommended storage conditions.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Stable under normal conditions.

Conditions to avoid : no data available

Incompatible materials : Strong oxidizing agents

Hazardous decomposition products : No decomposition if stored normally.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Acute oral toxicity : Remarks: no data available

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

### Skin corrosion/irritation

Remarks: no data available

### Serious eye damage/eye irritation

## SAFETY DATA SHEET

according to Work Health and Safety Regulations 2011

### Fetal Bovine Serum

Version 2.0

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Remarks: no data available

#### Respiratory or skin sensitisation

Remarks: no data available

#### Germ cell mutagenicity

Genotoxicity in vitro : Remarks: no data available

#### Carcinogenicity

Remarks: no data available

#### Reproductive toxicity

Effects on fertility : Remarks: no data available

#### STOT - single exposure

Remarks: no data available

#### STOT - repeated exposure

Remarks: no data available

#### Further information

Remarks: No data is available on the product itself.

## SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

Toxicity to fish : Remarks: no data available

#### Persistence and degradability

Biodegradability : Result: no data available

#### Bioaccumulative potential

Bioaccumulation : Remarks: no data available

#### Mobility in soil

Distribution among environmental compartments : Remarks: no data available

#### Other adverse effects

Additional ecological information : no data available

## SECTION 13. DISPOSAL CONSIDERATIONS

## SAFETY DATA SHEET

according to Work Health and Safety Regulations 2011

### Fetal Bovine Serum

Version 2.0

Revision Date 30.06.2021

Print Date 20.04.2024

#### Disposal methods

Waste from residues : Dispose of in accordance with local regulations.

## SECTION 14. TRANSPORT INFORMATION

### IATA

Not dangerous goods

UN number : Not applicable  
 Proper shipping name : Not applicable  
 Transport hazard class : Not applicable  
 Packing group : Not applicable  
 Environmental hazards : no

### IMDG

Not dangerous goods

UN number : Not applicable  
 Proper shipping name : Not applicable  
 Transport hazard class : Not applicable  
 Packing group : Not applicable  
 Environmental hazards : Marine pollutant: no

### ADR

Not dangerous goods

UN number : Not applicable  
 Proper shipping name : Not applicable  
 Transport hazard class : Not applicable  
 Packing group : Not applicable  
 Environmental hazards : no

### RID

Not dangerous goods

UN number : Not applicable  
 Proper shipping name : Not applicable  
 Transport hazard class : Not applicable  
 Packing group : Not applicable  
 Environmental hazards : no

Special precautions for user : none

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not applicable

## SECTION 15. REGULATORY INFORMATION

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

Standard for the Uniform Scheduling of Medicines and Poisons

Not applicable

## SAFETY DATA SHEET

according to Work Health and Safety Regulations 2011

### Fetal Bovine Serum

Version 2.0

Revision Date 30.06.2021

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## SECTION 16. OTHER INFORMATION

Revision Date : 30.06.2021

### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Date format : dd.mm.yyyy

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**SAFETY DATA SHEET**

according to Work Health and Safety Regulations 2011

**L-GLUTAMINE**

Version 2.0

Revision Date 30.06.2021

Print Date 20.04.2024

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : L-GLUTAMINE

**Manufacturer or supplier's details**Company : Capsugel Australia Pty Ltd.  
Suite 610, 12 Century Circuit,  
Norwest NSW 2153, AustraliaLonza Ltd  
Muenchensteinerstrasse 38  
CH-4002 Basel, Switzerland

Telephone : Tel +61 3 9550 0883

Telefax : Tel +61 3 9550 0890

E-mail address : sds@lonza.com

Emergency telephone number : +41 61 313 94 94 (24h)

**Recommended use of the chemical and restrictions on use**

Recommended use : Scientific research and development

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Not a hazardous substance or mixture.

**GHS label elements**

Not a hazardous substance or mixture.

**Other hazards which do not result in classification**

No information available.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Hazardous components**

No hazardous ingredients

**SECTION 4. FIRST AID MEASURES**

If inhaled : No special precautions required.

In case of skin contact : Wash with water and soap as a precaution.  
If skin irritation persists, call a physician.In case of eye contact : Immediately flush eye(s) with plenty of water.  
If eye irritation persists, consult a specialist.

## SAFETY DATA SHEET

according to Work Health and Safety Regulations 2011

### L-GLUTAMINE

Version 2.0

Revision Date 30.06.2021

Print Date 20.04.2024

- |   |   |  |
|---|---|--|
| If swallowed  | : | Immediately give large quantities of water to drink.<br>Do not induce vomiting without medical advice.<br>Never give anything by mouth to an unconscious person. |
| Most important symptoms and effects, both acute and delayed | : | No information available.  |
| Notes to physician  | : | No information available.  |

### SECTION 5. FIREFIGHTING MEASURES

- |   |   |  |
|---|---|--|
| Suitable extinguishing media                  | : | Water spray<br>Dry powder<br>Foam                              |
| Hazardous combustion products                 | : | Nitrogen oxides (NOx)<br>Carbon oxides (Cox)                   |
| Specific extinguishing methods                | : | Use water spray to cool unopened containers.                   |
| Special protective equipment for firefighters | : | In the event of fire, wear self-contained breathing apparatus. |

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- |   |   |   |
|---|---|---|
| Personal precautions, protective equipment and emergency procedures | : | Use personal protective equipment.  |
| Environmental precautions   | : | Prevent product from entering drains.   |
| Methods and materials for containment and cleaning up               | : | Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). |

### SECTION 7. HANDLING AND STORAGE

- |   |   |  |
|---|---|--|
| Advice on protection against fire and explosion | : | Take precautionary measures against static discharges.                 |
| Advice on safe handling                         | : | No special precautions required.                                       |
| Hygiene measures                                | : | Handle in accordance with good industrial hygiene and safety practice. |
| Conditions for safe storage                     | : | No special storage conditions required.                                |

## SAFETY DATA SHEET

according to Work Health and Safety Regulations 2011

### L-GLUTAMINE

Version 2.0

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#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

##### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : Avoid splashes.

##### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection

Material : Nitrile rubber

Rate of permeability : > 480 min

Eye protection : Safety glasses

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
No special protective equipment required.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Aqueous solution

Colour : no data available

Odour : no data available

Odour Threshold : no data available

pH : no data available

Melting point/freezing point : no data available

Initial boiling point and boiling range : no data available

Flash point : no data available

Evaporation rate : no data available

Flammability (solid, gas) : no data available

Flammability (liquids) : no data available

Upper explosion limit / upper flammability limit : no data available

Lower explosion limit / Lower : no data available

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 Packing group : Not applicable  
 Environmental hazards : no

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UN number : Not applicable  
 Proper shipping name : Not applicable  
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 Packing group : Not applicable  
 Environmental hazards : Marine pollutant: no

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UN number : Not applicable  
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 Transport hazard class : Not applicable  
 Packing group : Not applicable  
 Environmental hazards : no

### RID

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UN number : Not applicable  
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 Transport hazard class : Not applicable  
 Packing group : Not applicable  
 Environmental hazards : no

Special precautions for user : none

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