

## Kit SDS Cover Sheet

### EGM-2 MV Bullet Kit

Version 2.0

Revision Date 30.06.2021

Print Date 13.08.2022

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#### Product Information

Product name : EGM-2 MV Bullet Kit

Material number : CC-3202

#### Components

|  |              |
|--|--------------|
| EBM-2 BASAL MEDIUM   | SDS attached |
| CC-4147 EGM-2 MV SingleQuot Suppl&Growth Factors               |              |
| HUMAN EPIDERMAL FOR EGM-2MV SQ KIT                             | SDS attached |
| GA-1000  | SDS attached |
| Ascorbic Acid Solution   | SDS attached |
| Analog of Human Insulin-Like Growth Factor-1.<br>Long R3-IGF-1 | SDS attached |
| Human Vascular Endothelial Growth Factor<br>(hVEGF)            | SDS attached |
| Human Fibroblast Growth Factor basic (hFGFb)                   | SDS attached |
| Hydrocortisone solution  | SDS attached |
| Fetal Bovine Serum   | SDS attached |

## SAFETY DATA SHEET

according to Work Health and Safety Regulations 2011

### EBM-2 BASAL MEDIUM

Version 2.0

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#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : EBM-2 BASAL MEDIUM

##### 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 : For Research Use Only. Not for use in diagnostic procedures.

#### 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

| Chemical name                              | CAS-No.   | Concentration (% w/w) |
|--|-----------|-----------------------|
| Substances with a workplace exposure limit |           |                       |
| Iron(II) sulfate heptahydrate              | 7782-63-0 |                       |

#### 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.

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|   |   |  |
|---|---|--|
| In case of eye contact                                      | : | Immediately flush eye(s) with plenty of water.<br>If eye irritation persists, consult a specialist.  |
| 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.  |

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**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. |

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**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). |

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**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.                                |

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

##### Components with workplace control parameters

| Components                    | CAS-No.   | Value type<br>(Form of exposure) | Control parameters /<br>Permissible concentration | Basis   |
|-------------------------------|-----------|----------------------------------|---|---------|
| Iron(II) sulfate heptahydrate | 7782-63-0 | TWA                              | 1 mg/m <sup>3</sup><br>(as Fe)                    | AU NOEL |
|                               |           | TWA                              | 1 mg/m <sup>3</sup><br>(as Fe)                    | ACGIH   |

**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 : light red

Odour : no data available

Odour Threshold : no data available

pH : 7,6 - 8,0

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

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|  |   |                   |
|--|---|-------------------|
| 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 |
| 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 |

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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                | : | no data available                            |
| Incompatible materials             | : | Strong oxidizing agents                      |
| Hazardous decomposition products   | : | No decomposition if stored normally.         |

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity**

|                           |   |                            |
|---------------------------|---|----------------------------|
| Acute oral toxicity       | : | Remarks: no data available |
| Acute inhalation toxicity | : | Remarks: no data available |

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Acute dermal toxicity : Remarks: no data available

**Skin corrosion/irritation**

Remarks: no data available

**Serious eye damage/eye irritation**

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.

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**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 : Remarks: no data available

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compartments

**Other adverse effects**

Additional ecological information : no data available

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

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

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**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

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|   |   |                     |
|---|---|---------------------|
| <b>RID</b>  | : | Not dangerous goods |
| <b>UN number</b>  | : | Not applicable      |
| <b>Proper shipping name</b>   | : | Not applicable      |
| <b>Transport hazard class</b>   | : | Not applicable      |
| <b>Packing group</b>  | : | Not applicable      |
| <b>Environmental hazards</b>  | : | no                  |
| <b>Special precautions for user</b>   | : | none                |
| <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | : | 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

ACGIH : US. ACGIH Threshold Limit Values  
 AU NOEL : Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A), as amended

ACGIH / TWA : Time weighted average  
 AU NOEL / TWA : Time weighted average

AIIIC - 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



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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

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

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### GA-1000

Version 2.0

Revision Date 30.06.2021

Print Date 13.08.2022

#### 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.

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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 | >= 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.

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**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Not combustible.  
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.  
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.  
Avoid exposure - obtain special instructions before use.  
Use only in area provided with appropriate exhaust ventilation.  
Avoid contact with skin and eyes.
- Hygiene measures : DANGER!  
Avoid contact with the skin and the eyes.  
Avoid breathing dust or spray mist.  
Wash hands before breaks and immediately after handling the product.
- Conditions for safe storage : Keep frozen or refrigerated.
- 

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

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#### 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

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## 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

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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.

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**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**

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Distribution among environmental compartments : Remarks: no data available

**Other adverse effects**

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

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

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

Contaminated packaging : Dispose of as unused product.

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**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

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|   |   |                     |
|---|---|---------------------|
| <b>RID</b>  | : | Not dangerous goods |
| <b>UN number</b>  | : | Not applicable      |
| <b>Proper shipping name</b>   | : | Not applicable      |
| <b>Transport hazard class</b>   | : | Not applicable      |
| <b>Packing group</b>  | : | Not applicable      |
| <b>Environmental hazards</b>  | : | no                  |
| <b>Special precautions for user</b>   | : | none                |
| <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | : | 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



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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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**Hydrocortisone solution**

Version 2.0

Revision Date 30.06.2021

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**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : Hydrocortisone solution

**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**

Flammable liquids : Category 2

Serious eye damage/eye irritation : Category 2A

**GHS label elements**

Hazard pictograms :



Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.

Precautionary statements :

**Prevention:**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ eye protection/ face protection.

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**Response:**

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

**Storage:**

P403 + P235 Store in a well-ventilated place. Keep cool.

**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) |
|---------------|---------|-----------------------|
| Ethanol       | 64-17-5 | >= 90 - <= 100        |

### SECTION 4. FIRST AID MEASURES

- If inhaled : Remove to fresh air.  
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.  
Consult a physician.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Call a physician immediately.
- If swallowed : If accidentally swallowed obtain immediate medical attention.  
Clean mouth with water and drink afterwards plenty of water.  
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.

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#### SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Dry powder  
Water spray  
Foam
- Hazardous combustion products : 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 respirator when performing operations involving potential exposure to vapour of the product.
- Environmental precautions : Prevent product from entering drains.
- 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 : Highly flammable.  
Keep away from sources of ignition - No smoking.  
Take precautionary measures against static discharges.
- Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.  
Avoid contact with skin and eyes.
- Hygiene measures : Avoid contact with skin, eyes and clothing.  
Wash hands before breaks and immediately after handling the product.
- Conditions for safe storage : Keep away from sources of ignition - No smoking.  
Keep containers tightly closed in a cool, well-ventilated place.

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

##### Components with workplace control parameters

| Components | CAS-No. | Value type | Control | Basis |
|------------|---------|------------|---------|-------|
|------------|---------|------------|---------|-------|

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|         |         | (Form of exposure) | parameters / Permissible concentration |         |
|---------|---------|--------------------|--|---------|
| Ethanol | 64-17-5 | TWA                | 1 000 ppm<br>1 880 mg/m <sup>3</sup>   | AU NOEL |
|         |         | STEL               | 1 000 ppm                              | ACGIH   |

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

#### Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

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 : liquid

Colour : colourless

Odour : alcohol-like

Odour Threshold : no data available

pH : no data available

Melting point/freezing point : -114,5 - -114 °C  
Information refers to the main component.

Initial boiling point and boiling range : 78 °C  
Information refers to the main component.

Flash point : 12 °C  
Information refers to the main component.

Evaporation rate : no data available

Flammability (solid, gas) : no data available

Flammability (liquids) : no data available

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|--|---|--|
| Upper explosion limit / upper flammability limit | : | 15,0 %(V)<br>Information refers to the main component. |
| Lower explosion limit / Lower flammability limit | : | 3,5 %(V)<br>Information refers to the main component.  |
| Vapour pressure                                  | : | no data available                                      |
| Relative vapour density                          | : | no data available                                      |
| Relative density                                 | : | no data available                                      |
| Density  | : | 0,79 g/cm <sup>3</sup> (20 °C)                         |
| Water solubility                                 | : | completely miscible                                    |
| Partition coefficient: n-octanol/water           | : | no data available                                      |
| Auto-ignition temperature                        | : | no data available                                      |
| Decomposition temperature                        | : | no data available                                      |
| Viscosity, dynamic                               | : | 1,17 - 1,2 mPa.s ( 20 °C)                              |
| 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                | : | Keep away from heat and sources of ignition. |
| 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.

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**The following toxicological data refer to:**

Ethanol(CAS-No.: 64-17-5)

**Acute toxicity**

Acute oral toxicity : LD50 (Rat): &gt; 5 000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 124,7 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403

LC50 (Rat): 117 - 125 mg/l  
Exposure time: 4 h

Acute dermal toxicity : Remarks: no data available

**Skin corrosion/irritation**

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: No skin irritation

**Serious eye damage/eye irritation**

Species: Rabbit  
Result: Moderate eye irritation  
Assessment: Mild eye irritation

**Respiratory or skin sensitisation**

Exposure routes: Dermal  
Species: Mouse  
Result: not sensitizing

**Germ cell mutagenicity**

Genotoxicity in vitro : Test Type: Ames test  
Result: negative

: Test Type: gene mutation test  
Species: mouse lymphoma cells  
Result: negative

**Reproductive toxicity**

Effects on fertility : Remarks: no data available

Species: Mouse  
Application Route: Oral  
Method: OECD Test Guideline 416

**Repeated dose toxicity**

Species: Rat, male and female

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NOAEL: 1 730 mg/kg  
LOAEL: 3 200 mg/kg  
Application Route: Oral  
Exposure time: 14 Weeks

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**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

**Components:****Ethanol:**

Partition coefficient: n-octanol/water : log Pow: -0,3

**Mobility in soil**

Distribution among environmental compartments : Remarks: no data available

**Other adverse effects**

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

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**Waste from residues : Dispose of in accordance with local regulations.  
Contact waste disposal services.

Contaminated packaging : Dispose of as unused product.



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**SECTION 14. TRANSPORT INFORMATION****IATA**

**UN number** : 1170  
**Proper shipping name** : Ethanol solution  
**Transport hazard class** : 3  
**Packing group** : II  
Labels : 3  
**Environmental hazards** : no

**IMDG**

**UN number** : 1170  
**Proper shipping name** : Ethanol solution  
**Transport hazard class** : 3  
**Packing group** : II  
Labels : 3  
EmS Number 1 : F-E  
EmS Number 2 : S-D  
**Environmental hazards** : Marine pollutant: no

**ADR**

**UN number** : 1170  
**Proper shipping name** : ETHANOL SOLUTION  
**Transport hazard class** : 3  
**Packing group** : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3  
**Environmental hazards** : no

**RID**

**UN number** : 1170  
**Proper shipping name** : ETHANOL SOLUTION  
**Transport hazard class** : 3  
**Packing group** : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3  
**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

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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**

ACGIH : US. ACGIH Threshold Limit Values  
AU NOEL : Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A), as amended

ACGIH / STEL : Short term exposure limit  
AU NOEL / TWA : Time weighted average

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

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not**

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**to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

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**Fetal Bovine Serum**

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**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.

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|---|---|--|
| 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.                       |

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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 : &gt; 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

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|  |                     |
|--|---------------------|
| 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**

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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

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**SECTION 13. DISPOSAL CONSIDERATIONS**



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#### 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

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**SECTION 16. OTHER INFORMATION**

Revision Date : 30.06.2021

**Full text of other abbreviations**

AllC - 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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**Human Fibroblast Growth Factor basic (hFGFb)**

Version 2.0

Revision Date 30.06.2021

Print Date 13.08.2022

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : Human Fibroblast Growth Factor basic (hFGFb)

**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.

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- 
- |   |   |  |
|---|---|--|
| 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 | : | 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

**Human Fibroblast Growth Factor basic (hFGFb)**

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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 : &gt; 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 : 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

**SAFETY DATA SHEET**

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|  |                     |
|--|---------------------|
| 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**

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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

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### Human Fibroblast Growth Factor basic (hFGFb)

Version 2.0

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#### 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

### Human Fibroblast Growth Factor basic (hFGFb)

Version 2.0

Revision Date 30.06.2021

Print Date 13.08.2022

#### SECTION 16. OTHER INFORMATION

Revision Date : 30.06.2021

##### Full text of other abbreviations

AIIIC - 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

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

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according to Work Health and Safety Regulations 2011

**Human Vascular Endothelial Growth Factor (hVEGF)**

Version 2.0

Revision Date 30.06.2021

Print Date 13.08.2022

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : Human Vascular Endothelial Growth Factor (hVEGF)

**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.

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- 
- |   |   |  |
|---|---|--|
| 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 | : | 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

**Human Vascular Endothelial Growth Factor (hVEGF)**

Version 2.0

Revision Date 30.06.2021

Print Date 13.08.2022

**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 : &gt; 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 : 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

**SAFETY DATA SHEET**

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**Human Vascular Endothelial Growth Factor (hVEGF)**

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|  |                     |
|--|---------------------|
| 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

**Human Vascular Endothelial Growth Factor (hVEGF)**

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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

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**SECTION 13. DISPOSAL CONSIDERATIONS**

## SAFETY DATA SHEET

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### Human Vascular Endothelial Growth Factor (hVEGF)

Version 2.0

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#### 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

**Human Vascular Endothelial Growth Factor (hVEGF)**

Version 2.0

Revision Date 30.06.2021

Print Date 13.08.2022

**SECTION 16. OTHER INFORMATION**

Revision Date : 30.06.2021

**Full text of other abbreviations**

AllC - 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

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

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**SAFETY DATA SHEET**

according to Work Health and Safety Regulations 2011

**Analog of Human Insulin-Like Growth Factor-1. Long R3-IGF-1**

Version 2.0

Revision Date 30.06.2021

Print Date 13.08.2022

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : Analog of Human Insulin-Like Growth Factor-1. Long R3-IGF-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**

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

**Analog of Human Insulin-Like Growth Factor-1. Long R3-IGF-1**

Version 2.0

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- 
- |   |   |  |
|---|---|--|
| 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 | : | 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

**Analog of Human Insulin-Like Growth Factor-1. Long R3-IGF-1**

Version 2.0

Revision Date 30.06.2021

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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 : &gt; 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 : 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

**SAFETY DATA SHEET**

according to Work Health and Safety Regulations 2011

**Analog of Human Insulin-Like Growth Factor-1. Long R3-IGF-1**

Version 2.0

Revision Date 30.06.2021

Print Date 13.08.2022

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|  |                     |
|--|---------------------|
| 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

**Analog of Human Insulin-Like Growth Factor-1. Long R3-IGF-1**

Version 2.0

Revision Date 30.06.2021

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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

### Analog of Human Insulin-Like Growth Factor-1. Long R3-IGF-1

Version 2.0

Revision Date 30.06.2021

Print Date 13.08.2022

#### 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

**Analog of Human Insulin-Like Growth Factor-1. Long R3-IGF-1**

Version 2.0

Revision Date 30.06.2021

Print Date 13.08.2022

**SECTION 16. OTHER INFORMATION**

Revision Date : 30.06.2021

**Full text of other abbreviations**

AIIIC - 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

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

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**SAFETY DATA SHEET**

according to Work Health and Safety Regulations 2011

**Ascorbic Acid Solution**

Version 2.0

Revision Date 30.06.2021

Print Date 13.08.2022

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : Ascorbic Acid Solution

**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

**Ascorbic Acid Solution**

Version 2.0

Revision Date 30.06.2021

Print Date 13.08.2022

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- |   |   |  |
|---|---|--|
| 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                 | : | 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

**Ascorbic Acid Solution**

Version 2.0

Revision Date 30.06.2021

Print Date 13.08.2022

**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 : &gt; 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 : 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

**SAFETY DATA SHEET**

according to Work Health and Safety Regulations 2011

**Ascorbic Acid Solution**

Version 2.0

Revision Date 30.06.2021

Print Date 13.08.2022

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|  |                     |
|--|---------------------|
| 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

**Ascorbic Acid Solution**

Version 2.0

Revision Date 30.06.2021

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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

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**SECTION 13. DISPOSAL CONSIDERATIONS**

## SAFETY DATA SHEET

according to Work Health and Safety Regulations 2011

### Ascorbic Acid Solution

Version 2.0

Revision Date 30.06.2021

Print Date 13.08.2022

#### 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

**Ascorbic Acid Solution**

Version 2.0

Revision Date 30.06.2021

Print Date 13.08.2022

**SECTION 16. OTHER INFORMATION**

Revision Date : 30.06.2021

**Full text of other abbreviations**

AllC - 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

**HUMAN EPIDERMAL FOR EGM-2MV SQ KIT**

Version 2.0

Revision Date 30.06.2021

Print Date 13.08.2022

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : HUMAN EPIDERMAL FOR EGM-2MV SQ KIT

**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

**HUMAN EPIDERMAL FOR EGM-2MV SQ KIT**

Version 2.0

Revision Date 30.06.2021

Print Date 13.08.2022

- 
- |   |   |  |
|---|---|--|
| 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 | : | 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

**HUMAN EPIDERMAL FOR EGM-2MV SQ KIT**

Version 2.0

Revision Date 30.06.2021

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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 : &gt; 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 : 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

**SAFETY DATA SHEET**

according to Work Health and Safety Regulations 2011

**HUMAN EPIDERMAL FOR EGM-2MV SQ KIT**

Version 2.0

Revision Date 30.06.2021

Print Date 13.08.2022

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|  |                     |
|--|---------------------|
| 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

**HUMAN EPIDERMAL FOR EGM-2MV SQ KIT**

Version 2.0

Revision Date 30.06.2021

Print Date 13.08.2022

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

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**SECTION 13. DISPOSAL CONSIDERATIONS**

## SAFETY DATA SHEET

according to Work Health and Safety Regulations 2011

### HUMAN EPIDERMAL FOR EGM-2MV SQ KIT

Version 2.0

Revision Date 30.06.2021

Print Date 13.08.2022

#### 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

**HUMAN EPIDERMAL FOR EGM-2MV SQ KIT**

Version 2.0

Revision Date 30.06.2021

Print Date 13.08.2022

**SECTION 16. OTHER INFORMATION**

Revision Date : 30.06.2021

**Full text of other abbreviations**

AllC - 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

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

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