1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers
Product name : β-glucuronidase solution from overexpressing recombinant E. coli
Product Number : EBGp
Brand : Kura Biotec
Company : La Piedra Biotecnología Spa
Gnechen
Puerto Varas 5551114
Chile
Telephone : +56 9 8233 6932
Emergency Phone : +56 9 8233 6932

1.2 Other means of identification
no data available

1.3 Relevant identified uses of the substance or mixture and uses advised against
Identified uses : Laboratory chemicals, Manufacture of substances

1.4 Details of the supplier of the safety data sheet
Company : La Piedra Biotecnología Spa
Gnechen
Puerto Varas 5551114
Chile
Telephone : +56 9 8233 6932
Emergency Phone : +56 9 8233 6932

1.5 Emergency telephone number
Emergency Phone #: +56 9 8233 6932

2. HAZARDS IDENTIFICATION

2.1 GHS Classification
Respiratory sensitisation (Category 1)
Skin sensitisation (Category 1)

2.2 GHS Label elements, including precautionary statements
Pictogram

Signal word Danger
Hazard statement(s)
H317 May cause an allergic skin reaction.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Precautionary statement(s)
Prevention
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves.
In case of inadequate ventilation wear respiratory protection.

Response
IF ON SKIN: Wash with plenty of soap and water.
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Specific treatment (see supplemental first aid instructions on this label).
If skin irritation or rash occurs: Get medical advice/attention.
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
Wash contaminated clothing before reuse.
Dispose of contents/container to an approved waste disposal plant.

2.3 Other hazards – none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

For the full text of the H-Statements mentioned in this Section, see Section 16.

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glucuronidase, β-</td>
<td>Resp. Sens. 1; Skin Sens. 1; H317, H334</td>
<td>-</td>
</tr>
</tbody>
</table>

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

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

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

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

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

5. FIREFIGHTING MEASURES

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

5.2 Special hazards arising from the substance or mixture
no data available

5.3 Advice for firefighters
Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information
no data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

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

Recommended storage temperature: -20 °C

7.3 Specific end use(s)
A part from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
Occupational Exposure Limits
We are not aware of any national exposure limit.

8.2 Exposure controls
Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment
Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use professional glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Body Protection**
Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**
For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. **PHYSICAL AND CHEMICAL PROPERTIES**

9.1 Information on basic physical and chemical properties

- a) Appearance Form: solid
- b) Odour
- c) Odour Threshold
- d) pH
- e) Melting point/freezing point
- f) Initial boiling point and boiling range
- g) Flash point
- h) Evaporation rate
- i) Flammability (solid, gas)
- j) Upper/lower flammability or explosive limits
- k) Vapour pressure
- l) Vapour density
- m) Relative density 1.000 g/cm³
- n) Water solubility
- o) Partition coefficient: noctanol/ water
- p) Auto-ignition temperature
- q) Decomposition temperature
- r) Viscosity
- s) Explosive properties
- t) Oxidizing properties

9.2 Other safety information

10. **STABILITY AND REACTIVITY**

10.1 Reactivity

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

10.4 Conditions to avoid

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products -

In the event of fire: see section 5

11. **TOXICOLOGICAL INFORMATION**

11.1 Information on toxicological effects

- Acute toxicity
- Skin corrosion/irritation
- Serious eye damage/eye irritation

Page 4 of 6
Respiratory or skin sensitisation  no data available
Germ cell mutagenicity  no data available
Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity  no data available
Specific target organ toxicity - single exposure  no data available
Specific target organ toxicity - repeated exposure  no data available
Aspiration hazard  no data available
Additional Information
RTECS: LZ8990000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION
12.1 Toxicity  no data available
12.2 Persistence and degradability  no data available
12.3 Bioaccumulative potential  no data available
12.4 Mobility in soil  no data available
12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
12.6 Other adverse effects  no data available

13. DISPOSAL CONSIDERATIONS
13.1 Waste treatment methods
Product
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION
14.1 UN number
ADR/RID: - IMDG: - IATA-DGR: -
14.2 UN proper shipping name
ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA-DGR: Not dangerous goods
14.3 Transport hazard class(es)
ADR/RID: - IMDG: - IATA-DGR: -
14.4 Packaging group
ADR/RID: - IMDG: - IATA-DGR: -
14.5 Environmental hazards
ADR/RID: no IMDG Marine pollutant: no IATA-DGR: no
14.6 Special precautions for user
no data available

15. REGULATORY INFORMATION
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Standard for the Uniform Scheduling of Medicines and Poisons
no data available
Carcinogen classification under WHS Regulation 2011, Schedule 10
Not listed

**Notification status**

- **AICS**: Not in compliance with the inventory - Glucuronidase, β-
- **DSL**: This product contains the following components that are not on the Canadian DSL nor NDSL - Glucuronidase, β-
- **ENCS**: Not in compliance with the inventory - Glucuronidase, β-
- **IECSC**: Not in compliance with the inventory - Glucuronidase, β-
- **ISHL**: Not in compliance with the inventory - Glucuronidase, β-
- **KECI**: On the inventory, or in compliance with the inventory
- **NZIoC**: Not in compliance with the inventory - Glucuronidase, β-
- **PICCS**: Not in compliance with the inventory - Glucuronidase, β-

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### 16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

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

**Resp. Sens.** Respiratory sensitisation

**Skin Sens.** Skin sensitisation

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**Further information**

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