# Material Safety Data Sheet

## according to 1907/2006/EC

**recombinant human**

**Interleukin-2**

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## 01  Product and Company Identification

<table>
<thead>
<tr>
<th><strong>Product name:</strong></th>
<th>Interleukin-2 - recombinant human (IL-2)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product number:</strong></td>
<td>1020 (GMP grade); 1420 (preclinical grade)</td>
</tr>
<tr>
<td><strong>Brand name:</strong></td>
<td>CellGenix™ (USA); CellGro® (Europe, Asia)</td>
</tr>
</tbody>
</table>

**Company:** CellGenix GmbH  
**Street:** Am Flughafen 16  
**ZIP, Town, Country:** 79108 Freiburg – Germany  
**Information:** Customer Service  
**Emergency Call:** 0049 761 88889 0

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## 02  Hazards Identification

**Classification according to Regulation (EC) No 1272/2008**  
The substance is not classified according to the CLP regulation.

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
Not applicable

**Hazard description:** Not applicable.

**Information concerning particular hazards for human and environment:** Not applicable.

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## 03  Composition / Information on Ingredient

| **Substance:** | Interleukin-2 [des-alanyl-1, serine 125], recombinant human (lyophilized)  
25 mM sodium acetate (lyophilized)  
50 mM NaCl (lyophilized) |
|-----------------|-------------------------------------------------|
| **CAS #:** | n.a.  
127-09-3  
7647-14-5 |

**Hazards:** No hazardous components contained

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## 04  First Aid Measures

**General information:** No special measures required.

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:** Generally the product does not irritate the skin.

**After eye contact:** Rinse opened eye for several minutes under running water.

**After swallowing:** If symptoms persist consult doctor.

**Information for doctor:** No further relevant information available.

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## 05  Fire Fighting Measures

**Extinguishing Media:** Water spray, Carbon dioxide, dry chemical powder, appropriate foam

**Advice for firefighters:** Protective equipment: No special measures required.

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## 06  Accidental Release Measures

**Precaution:** Exercise appropriate precaution to minimize direct contact (skin, eyes, respiratory system).

**Cleaning:** Wipe up with damp sponge or mop. Disinfect area.

**Environment protect:** Wipe up if spilled.

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## 07  Handling and Storage

**Handling:** Avoid inhalation. Avoid contact with eyes, skin and clothes. Avoid repeated exposure.

**Storage:** Keep tightly closed. Store at -20 to -80 °C. Ship at ambient temperature.

**Usage:** Cell Culture component. For preclinical or clinical ex vivo use. Not intended for human in vivo application.
08 Exposure Controls /Personal Protection

Control parameters
Exposure limits: This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering controls: Area ventilation is generally adequate.

Personal Protective Equipment
Eye: Chemical safety goggles
Skin: Protective gloves as minimum hand protection (use Latex or Nitrile 0.1 mm)
General: Wash thoroughly after handling

09 Physical / Chemical Properties

Appearance / Physical State: solid powder (lyophilisate)
Color: White
Odor: no odor
Molecular Weight: ca. 16.3 kDa

Melting point: n.a.
Boiling point: n.a.
Flash point: n.a.
Autoignition Temp: n.a.

Danger of explosion: none
 Density: n.a.
Solubility in H₂O: soluble
Flammability: n.a.

pH Value: n.a.

10 Stability and Reactivity

Stability: stable
Materials to avoid: strong oxidizing agents

Hazardous polymerization: will not occur
Hazardous decomposition products: nature of decomposition not known

11 Toxicological Information

This product is a potential irritant to eyes, respiratory system and skin. The product may also be harmful if ingested. Complete toxicological properties have not yet been determined. No sensitizing effects known till now.

12 Ecological Information

Persistence and degradability: No further relevant information available. No ecological effects expected. Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

Behaviour in environmental systems: No ecological effects expected.
Bioaccumulative potential: No further relevant information available. No accumulative effects expected.

Mobility in soil: No further relevant information available.
General notes: Not known to be hazardous to water.
Results of PBT and vPvB assessment: No known relevant substances obtained.

13 Disposal Considerations

Dispose of in accordance with local regulations. Small amounts can be diluted and disposed in the sink.
14 Transport Information

**UN-Number (ADR, ADN, IMDG, IATA):** Void
**UN proper shipping name (ADR, ADN, IMDG, IATA):** Void
**Transport hazard class (ADR, ADN, IMDG, IATA):** Void
**Packing group (ADR, IMDG, IATA):** Void
**Environmental hazards (Marine pollutant):** Void
**Special precautions for user:** Void
**Transport in bulk (Annex II of MARPOL73/78 and the IBC Code):** Void
**UN "Model Regulation":** Void

15 Regulatory Information

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.
SARA, TSCA, MAK: Not listed

16 Other Information

MSDS issued by: CellGenix GmbH, Regulatory Affairs

Warranty:
To the best of our knowledge, the information contained herein is accurate. However, neither CellGenix nor any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only ones that exist.