Material Safety Data Sheet

According to Regulations:
(EC) No 1907/2006
OSHA 29 CFR 1910.1200

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

Product name
LONG®R3IGF-I, Liquid product (LP)

Description
Aqueous preparation of a recombinant analog of human Insulin-like Growth Factor-I

CAS number
143045-27-6

Use of the substance/preparation
Laboratory chemical. Manufacture of substances. THIS PRODUCT IS NOT INTENDED FOR HUMAN OR THERAPEUTIC USE.

Company/Undertaking Identification
Repligen Sweden AB
S:t Lars väg 47
P.O. Box 965
SE-220 09 Lund
Sweden
+ 46 (0)46 280 17 00

Emergency Telephone Number
Europe: + 46 (0)707 54 98 23
USA: + 1-800-622-2259

2. HAZARDS IDENTIFICATION

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008 or OSHA 29 CFR 1910.1200

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS number</th>
<th>% (w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analog of human insulin-like growth factor IGF-I</td>
<td>143045-27-6</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Acetic acid</td>
<td>64-19-7</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>&gt; 98</td>
</tr>
</tbody>
</table>
4. FIRST AID MEASURES

**Inhalation**
If dust is inhaled, remove from contaminated area. Encourage patient to blow nose to ensure clear breathing passage. If irritation or discomfort persists seek medical attention.

**Skin contact**
In case of contact with skin, wash the affected area with soap and water. Should irritation occur, contact a physician.

**Eye contact**
In case of contact with eyes, flush thoroughly with water and contact a physician.

**Ingestion**
In case of accidental swallowing, rinse the mouth with fresh water provided the person is conscious. Contact a physician.

5. FIRE-FIGHTING MEASURES

**Protection against Fire and Explosions**
No special requirements

**Suitable extinguishing media**
Water spray, dry chemical powder or appropriate foam. Wear self-contained breathing apparatus and protective clothing. Avoid contact with skin or eyes.

**Unsuitable extinguishing media**
None

**Hazardous combustion products**
None

6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**
For personal protection see section 8

**Methods for cleaning up**
Carefully sweep up powder, place in a closed container and hold for waste disposal. Avoid raising dust. Wash area thoroughly after clean-up is complete.

7. HANDLING AND STORAGE

**Handling**
Avoid generating and breathing dust. Limit all unnecessary personal contact. Standard laboratory practices recommended.

**Storage**
Store at 2 - 8°C

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Eye protection**
Safety glasses or goggles required.

**Hand Protection**
Wear general protective gloves, e.g. light weight rubber gloves.

**General hygiene considerations**
Handle in accordance with good industrial hygiene and safety practices.

9. PHYSICAL AND CHEMICAL PROPERTIES
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**Appearance**  Clear liquid

**pH**  3

**Solubility**  Mixes with water.

10. STABILITY AND REACTIVITY

**Reactivity**  No data available.

**Chemical stability**  This material is stable under normal conditions of use

**Conditions to avoid**  No known

**Incompatible materials**  No known

**Hazardous Decomposition Products**  No known hazardous decomposition products

11. TOXICOLOGICAL INFORMATION

**Acute toxicity**  No known significant effect.

**Irritation**  May be irritating to skin and eye

**Sensitization**  No known significant effect

**Carcinogenicity**  No known significant effect

**Mutagenicity**  No known significant effect

**Teratogenicity**  No known significant effect

12. ECOLOGICAL INFORMATION

**Ecotoxicity**  The substance is readily biodegradable

EC$_{50}$ (Daphnia magna) > 100 mg/liter/48 h

13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method**  All waste must be handled in accordance with local, state and federal regulations.

14. TRANSPORT INFORMATION

**Transport Regulations**  The preparation is not subject to current regulations for transport of hazardous materials according to IATA, IMDG, DOT or ADR/RID/ADN

15. REGULATORY INFORMATION

The preparation is not classified as hazardous according to OSHA/SARA/CWA/CAA.

The preparation is not classified as hazardous according to (EC) No. 1272/2008

16. OTHER INFORMATION

**Disclaimer**  
The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification.