

 Repligen Sweden AB	<i>Document ID</i> BUP-0232- 2.0	<i>Publish date</i> 2018-03-09
<i>Title</i> Säkerhetsdatablad för frystorkad LONG R3 IGF-I	<i>Author</i> Lars-Gunnar Ritzén	<i>Approver</i> Anna Åkesson
<i>English/Swedish title</i> MSDS for freeze dried LONG R3 IGF-I	<i>Department</i> Compliance - QA, Supply chain	

## 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

<b>Product name</b>	LONG®R <sup>3</sup> IGF-I, Freeze-dried product (FD)
<b>Description</b>	Freeze-dried preparation of a recombinant analog of human Insulin-like Growth Factor-I
<b>CAS number</b>	143045-27-6
<b>Use of the substance/preparation</b>	Laboratory chemical. Manufacture of substances. THIS PRODUCT IS NOT INTENDED FOR HUMAN OR THERAPEUTIC USE.
<b>Company/Undertaking Identification</b>	Repligen Sweden AB S:t Lars väg 47 P.O. Box 965 SE-220 09 Lund Sweden + 46 (0)46 280 17 00
<b>Emergency Telephone Number</b>	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

Name	CAS number	%
Analog of human insulin-like growth factor IGF-I	143045-27-6	85-95

### 4. FIRST AID MEASURES

<b>Inhalation</b>	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.
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Repligen Sweden AB

**Title**  
Säkerhetsdatablad för frystorkad LONG R3 IGF-I

<b>Skin contact</b>	In case of contact with skin, wash the affected area with soap and water. Should irritation occur, contact a physician.
<b>Eye contact</b>	In case of contact with eyes, flush thoroughly with water and contact a physician.
<b>Ingestion</b>	In case of accidental swallowing, rinse the mouth with fresh water provided the person is conscious. Contact a physician.

**5. FIRE-FIGHTING MEASURES**

<b>Protection against Fire and Explosions</b>	No special requirements
<b>Suitable extinguishing media</b>	Water spray, dry chemical powder or appropriate foam. Wear self-contained breathing apparatus and protective clothing. Avoid contact with skin or eyes
<b>Unsuitable extinguishing media</b>	None
<b>Hazardous combustion products</b>	None

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal precautions</b>	For personal protection see section 8
<b>Methods for cleaning up</b>	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**

<b>Handling</b>	Avoid generating and breathing dust. Limit all unnecessary personal contact. Standard laboratory practices recommended.
<b>Storage</b>	Store at 2 -8°C

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>Eye protection</b>	Safety glasses or goggles required.
<b>Hand Protection</b>	Wear general protective gloves, e.g. light weight rubber gloves.
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practices.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	White, odorless crystalline powder
<b>Solubility</b>	Partly soluble in water.

Repligen Sweden AB

*Title*  
S akerhetsdatablad f or frystorkad LONG R3 IGF-I**10. STABILITY AND REACTIVITY**

<b>Reactivity</b>	No data available.
<b>Chemical stability</b>	This material is stable under normal conditions of use
<b>Conditions to avoid</b>	No known
<b>Incompatible materials</b>	No known
<b>Hazardous Decomposition Products</b>	No known hazardous decomposition products

**11. TOXICOLOGICAL INFORMATION**

<b>Acute toxicity</b>	No known significant effect.
<b>Irritation</b>	May be irritating to skin and eye
<b>Sensitization</b>	No known significant effect
<b>Carcinogenicity</b>	No known significant effect
<b>Mutagenicity</b>	No known significant effect
<b>Teratogenicity</b>	No known significant effect

**12. ECOLOGICAL INFORMATION**

<b>Ecotoxicity</b>	The substance is readily biodegradable EC <sub>50</sub> (Daphnia magna) > 100 mg/liter/48 h
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**13. DISPOSAL CONSIDERATIONS**

<b>Waste Disposal Method</b>	All waste must be handled in accordance with local, state and federal regulations.
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**14. TRANSPORT INFORMATION**

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