



## **Material Safety Data Sheet**

**Date Created** 

12/20/2011

Date Updated Version

1.1

**Section 1- Product Information** 

Product Name LR<sup>3</sup>-IGF-I (Media Grade), Human Product Cat. No. Z03090-10; Z03090-50; Z03090-1;

Section 2- Composition / Information on Ingredients

Substance / Preparation: Substance

Ingredient Name LR<sup>3</sup>-IGF-I (Media Grade), Human

CAS No. No SARA 313 No

**Section 3- Hazards Identification** 

HMIS Rating

Health
Flammability
Reactivity

NFPA Rating
Health
Flammability
Reactivity

0

For additional information on toxicity, please refer to Section 11.

**Section 4- First Aid Measures** 

Oral Exposure If swallowed, wash out mouth with water provided person is conscious. Call a

physician.

Inhalation Exposure If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Dermal Exposure In case of skin contact, flush with copious amounts of water for at least 15 minutes.

Remove contaminated clothing and shoes. Call a physician.

Eye Exposure In case of contact with eyes, flush with copious amounts of water for at least 15

minutes. Assure adequate flushing by separating the eyelids with fingers. Call a

physician.

**Section 5- Fire Fighting Measures** 

Flash Point Not available
Autoignition Temp Not available
Flammability Not available

Extinguishing Media

Suitable Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Fire Fighting

Protective Equipment Wear self-contained breathing apparatus and protective clothing to prevent contact

with skin and eyes.

Specific Hazard(s) Emits toxic fumes under fire conditions

**Section 6- Accidental Release Measures** 

Procedure to Be Followed in Case of Evacuate area

Leak or Spill Procedure(s) of Personal Precaution(s) Methods for Cleaning Up

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves Sweep up, place in a bag and hold for waste disposal. Avoid raising dust.

Ventilate area and wash spill site after material pickup is complete.

Section 7- Handling and Storage

Handling

User Exposure Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or

repeated exposure.

Storage Although GenScript lyophilized LR<sup>3</sup>-IGF-I remain stable at room temperature for

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three weeks, it is best stored desiccated below -18°C. After reconstitution, GenScript LR<sup>3</sup>-IGF-I may be stored at 4°C for up to seven days and below -18°C for longer periods. For long-term storage, it is recommended that a carrier protein (0.1% HSA or BSA) be added. Please avoid freeze-thaw cycles.

**Section 8- Exposure Controls/Personal Protection Equipment** 

Engineering Controls Mechanical exhaust required

Personal Protective Equipment

Respiratory Use respirators and components tested and approved under appropriate

government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type

N95 (US) or type P1 (EN 143) respirator.

Other Wear appropriate government approved respirator, chemical-resistant gloves, safety

goggles, other protective clothing.

General Hygiene Measures Wash thoroughly after handling

## **Section 9- Physical and Chemical Properties**

Appearance

Physical State Lyophilized powder

Property

Molecular Weight ~9.1 kDa рΗ Not available BP/BP Range Not available MP/MP Range Not available Freezing Point Not available Vapor Pressure Not available Vapor Density Not available Saturated Vapor Conc. Not available SG/Density Not available **Bulk Density** Not available Odor Threshold Not available Volatile% Not available VOC Content Not available Water Content Not available Solvent Content Not available **Evaporation Rate** Not available Viscosity Not available Not available Surface Tension **Partition Coefficient** Not available Decomposition Temp. Not available Flash Point Not available Not available **Explosion Limits** Flammability Not available **Autoignition Temp** Not available Refractive Index Not available Optical Rotation Not available Miscellaneous Data Not available

## Section 10- Stability and Reactivity

Stability

Solubility

Stable Stable

Hazardous Decomposition Products

Hazardous Decomposition Products Nature of decomposition products not known

Soluble

## **Section 11- Toxicological Information**

Route of Exposure

Skin Contact May cause skin irritation

Skin Absorption May be harmful if absorbed through the skin

Inhalation Material may be irritating to mucous membranes and upper respiratory tract, May

be harmful if inhaled.

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Ingestion May be harmful if swallowed

Conditions Aggravated by Exposure The toxicological properties have not been thoroughly investigated.

**Section 12- Ecological Information** 

Eco-toxicity

Toxicity of The Products of The product itself and its products of degradation are not toxic.

Biodegradation

**Section 13- Disposal Considerations** 

Appropriate Method of Disposal of Waste must be disposed of in accordance with federal, state and local

Substance or Preparation environmental control regulations.

**Section 14- Transport Information** 

DOT

Proper Shipping Name None

Non-Hazardous for Transport This substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport Non-hazardous for air transport

**Section 15- Regulatory Information** 

United States Regulatory information

SARA Listed No

Canada Regulatory Information

WHMIS Classification This product has been classified in accordance with the hazard criteria of the CPR,

and the MSDS contains all the information required by the CPR.

DSL No NDSL No

**Section 16- Other Information** 

Disclaimer For in vitro research use only.

GenScript corporation MSDS is believed to be correct but only used as a guide for experienced personnel, GenScript shall not be held liable for any damage resulting from the handling or from contact with the above product.