



## Material Safety Data Sheet

### GenScript Corporation

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### Section 1-Product Information

Product name	<b>β-Casomorphin, human</b>
Product Cat. No.	RP11056

### Section 2-Composition / Information on Ingredients

Substance/Preparation:	Substance.
Ingredient Name	β-Casomorphin, human
CAS No.	102029-74-3
SARA 313	No
Formula	C <sub>44</sub> H <sub>61</sub> N <sub>7</sub> O <sub>11</sub>

### Section 3- Hazards Identification

#### Emergency Overview

Caution The chemical, physical, and toxicological properties of this product have not been thoroughly investigated. Exercise due care.

#### HMIS Rating

Health	3
Flammability	0
Reactivity	0

#### NFPA Rating

Health	3
Flammability	0
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	Carbon dioxide, dry chemical powder, or appropriate foam. Water spray.
Fire Fighting	
Protective Equipment	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

### Section 6- Accidental Release Measures

Procedure to be Followed in Case of Leak or Spill	Evacuate area.
Procedure(s) of Personal Precaution(s)	Wear respirator, chemical safety goggles, rubber boots, and

Methods for Cleaning up	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.
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## Section 7-Handling and Storage

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Handling	
User Exposure	Avoid inhalation. Avoid contact with eyes, skins, and clothing. Avoid prolonged or repeated exposure.
Storage	
Suitable Store	Keep tightly closed. -20°C

## Section 8-Exposure Controls/Personal Protection Equipment

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Engineering Controls	Mechanical exhaust required.
Personal Protective equipment	
Respiratory	Government approved respirator.
Hand	Compatible chemical-resistant gloves.
Eye	Chemical safety goggles.
General Hygiene Measures	Wash thoroughly after handling.

## Section 9- Physical and Chemical Properties

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Appearance	
Physical State	Solid.
Property	
Molecular Weight	864 AMU
pH	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.
Surface Tension	Not available.
Partition Coefficient	Not available.
Decomposition Temp.	Not available.
Flash Point	Not available.
Explosion Limits	Not available.
Flammability	Not available.
Autoignition Temp	Not available.
Refractive Index	Not available.
Optical Rotation	Not available.
Miscellaneous Data	Not available.
Solubility	Not available.

## Section 10- Stability and Reactivity

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Stability	
Stable	Stable
Hazardous Polymerization	
Hazardous Polymerization	Will not occur.

## Section 11- Toxicological Information

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Route of Exposure	
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Multiple routes  
Conditions Aggravated by Exposure

May be harmful by inhalation, ingestion, or skin absorption.  
The toxicological properties have not been thoroughly investigated.

## Section 12- Ecological Information

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No data available.

## Section 13- Disposal Considerations

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Appropriate Method of Disposal of Substance or Preparation      Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

## Section 14- Transport Information

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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

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US Classification and Label Text  
US Statements      Caution: The chemical, physical, and toxicological properties of this product have not been thoroughly investigated. Exercise due care.

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

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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.