## Safety Data Sheet

Section 1: Identification
Product identifier
Product Name: Endomorphin-1
Product Code: RP10925
Relevant identified uses of the substance or mixture and uses advised against
Recommended use: Hazard Communication \& Compliance
Details of the supplier of the safety data sheet
Manufacturer: GenScript860 Centennial Ave.Piscataway, NJ 08854 United States
www.genscript.com
product@genscript.com
Telephone (General): 1-732-885-9188
Emergency telephone number
Manufacturer: ..... 1-877-436-7274
Section 2: Hazards identification
According to OSHA 29 CFR 1910.1200 HCS
Emergency Overview: Lyophilized solid. Toxicological properties of components have not been fully investigated.
Health Effects: Not classified
Inhalation: Not known to present an inhalation hazard under normal use.
Skin: May cause skin irritation
Eyes: May cause serious eye irritation
Ingestion: May be harmful if swallowed.
Chronic Effects/Target Organ Effects: None known.
Medical Conditions Aggravated By Exposure: None known.
Environmental Effects: None known.
Section 3 - Composition/Information on Ingredients

## Section 4: First-Aid Measures

| Inhalation | Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate <br> medical advice. |
| :--- | :--- |
| Skin | Immediately wash with plenty of water and soap and rinse thoroughly. Seek immediate medical <br> advice. |
| Eye | Rinse opened eye for several minutes under running water. Remove contact lenses, if present and <br> easy to do. Continue rinsing. Then consult a doctor. |
| Swallowing | Seek immediate medical treatment. |

## Section 5: Fire-Fighting Measures

Suitable Extinguishing Media: Carbon dioxide ( $\mathrm{CO}_{2}$ ), extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special protective equipment for firefighters
Standard procedure for chemical fires.

## Section 6 - Accidental Release Measures

## Personal Precautions

Methods for cleaning up
Environmental precautions

Methods and material for containment and cleaning up Prevention of secondary hazards

Always wear recommended Personal Protective Equipment. Use personal protection equipment. Keep unprotected persons away. Ensure adequate ventilation.
Soak up with inert absorbent material.
Do not allow material to be released to the environment without proper governmental permit.

Pick up mechanically.
No special measures required.

## Section 7 - Handling and Storage

Handling: Always wear recommended Personal Protective Equipment. No special handling advices are necessary. Keep container tightly sealed.

Storage: Store in freezer $\left(-20^{\circ} \mathrm{C}\right)$. Store away from oxidizing agents. Protect from heat. Keep container tightly sealed.
Specific end use(s): For R\&D/experimental use only

## Section 8 - Exposure Controls/Personal Protection

Additional information about design of technical systems: Properly operating chemical fume food designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.
Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

## Exposure Controls

Personal protective equipment
General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Maintain and ergonomically appropriated working environment.
Breathing equipment: Use suitable respirator when high concentrations are present.
Protection of hands: Impervious gloves. Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.
Penetration time of glove material (in minutes): Not determined.
Eye Protection: Chemical goggles or safety glasses.
Body Protection: Protective work clothing.

## Section 9 - Physical and Chemical Properties

## General information

| Form | Lyophilized solid |
| :--- | :--- |
| Appearance | White or off-white color |
| Odor | No data available |
| Odor Threshold | No data available |
| Boiling point / boiling range | No data available |
| Melting point / melting range | No data available |
| Flash point: | No data available |
| Autoignition Temperature | No data available |


| Oxidizing properties | No data available |
| :--- | :--- |
| Water solubility | No data available |
| Explosion limit | Not determined |
| Evaporation rate | No data available |
| Partition coefficient(n-octanol/water) | Not determined |
| Viscosity dynamic | No data available |
| Viscosity kinematic | No data available |

## Section 10: Stability and Reactivity

| Reactivity | No additional information available |
| :--- | :--- |
| Chemical stability | Stable under recommended storage conditions |
| Possibility of hazardous reactions | Not dangerous reactions known. |
| Conditions to avoid | No data available |
| Incompatible materials | No data available |
| Hazardous decomposition products | No data available |

## Section 11 - Toxicological Information

## Information on toxicological effects

Acute Toxicity: The Registry of Toxic Effects of Chemical Substance (RTECS) contains acute toxicity data for components in this product.

LD/LC50 values that are relevant for classification: No data

Principle Routes of Exposure Potential Health Effects

| Eyes | May cause eye irritation with susceptible persons. |
| :--- | :--- |
| Skin | May cause skin irritation in susceptible persons. |
| Inhalation | May be harmful by inhalation. |
| Ingestion | May be harmful if swallowed. |

## Carcinogenic effects

## Mutagenic effects

Reproductive toxicity
Sensitization

Additional toxicological information

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA, or ACGIH.

No effects known.

No effects known.

No sensitizing effects known.
To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

## Section 12 - Ecological Information

| Aquatic toxicity | No further relevant information available. |
| :--- | :--- |
| Mobility in soil | No further relevant information available. |
| Bioaccumulative potential | No further relevant information available. |
| Persistence and degradability | No further relevant information available. |
|  | Do not allow material to be released to the environment without <br> proper governmental permits. <br> Do not allow undiluted product or large quantities to reach <br> ground water, water course or sewage system. |
| Results of PBT and vPvB assessment | Avoid transfer into the environment. |
| Not applicable |  |

## Section 13 - Disposal Considerations

## Waste treatment methods

Recommendation: Consult state, local or national regulations to ensure proper disposal.
Uncleaned packaging
Recommendation: Disposal must be made according to official regulations.

## Section 14 - Transport Information

UN-Number / DOT, ADN, IMDG, IATA

UN proper shipping name / DOT, ADN, IMDG, IATA

Not applicable

Not applicable

Transport hazard class(es) / DOT, ADR, AND, IMDG, IATA Class

Packing group / DOT, IMDG, IATA

Environmental hazards:

Special precautions for user

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable
Not applicable
Not applicable
Not applicable

Not applicable

Not applicable

Marine Pollutant (DOT):
UN "Model Regulation"

## Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture
GHS label element: Not applicable
Hazard pictograms: Not applicable
Signal word: Not applicable

Hazard statements: Not applicable
National regulations: This product is not listed in the US. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes.

SARA Section 313 (specific toxic chemical listings): Substance is not listed.
California Proposition 65
Prop 65 - Chemical known to cause cancer: Substance is not listed.
Prop 65 - Developmental toxicity: Substance is not listed.
Prop 65 - Developmental toxicity, female: Substance is not listed.
Prop 65 - Developmental toxicity, male: Substance is not listed.
Information about limitation of use: For use only by technically qualified individuals
Other regulations, limitations and prohibitive regulations
Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.

The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the marker and use must be observed.
Substance is not listed.
Annex XIV of the REACH Regulations (requiring Authorisation for use): Substance is not listed.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## Section 16-Other Information

| Date Created | $05 / 20 / 2016$ |
| :--- | :--- |
| Date Updated | $03 / 20 / 2018$ |
| Version | 1.2 |
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