

Material Safety Data Sheet

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|-----------------|----------------------|
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| Emergency phone | 732-885-9188 ext 111 |
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| Email | info@genscript.com |
| Date updated | 09/10/2008 |

Section 1-Product Information

| | |
|------------------|---------------------------------------------------|
| Product name | Phe-Met-Arg-Phe Like Peptide, Snail Helix aspersa |
| Product Cat. No. | RP13660 |

Section 2-Composition / Information on Ingredients

| | |
|------------------------|-----------------------------------------------------------------|
| Substance/Preparation: | Substance |
| Ingredient Name | Phe-Met-Arg-Phe Like Peptide, Snail Helix aspersa |
| SARA 313 | No |
| Formula | C ₄₄ H ₆₁ N ₁₁ O ₁₀ |

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

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|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |
| Specific Hazard(s) | Emits toxic fumes under fire conditions. |

Section 6- Accidental Release Measures

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|---------------------------------------------------|---------------------------------------------------------------------------------|
| 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 heavy rubber gloves |

Methods for Cleaning up 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
Suitable
Storage at -20°C Keep tightly closed

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 White powder

Property
Molecular Weight 904.03 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 Soluble in water

Section 10- Stability and Reactivity

Stability
Stable Stable

Hazardous Decomposition Products

| | |
|----------------------------------|--------------------------------------------------|
| Hazardous Decomposition Products | Carbon monoxide, Carbon dioxide, Nitrogen oxides |
| Hazardous Polymerization | |
| Hazardous Polymerization | Will not occur |

Section 11- Toxicological Information

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|-----------------------------------|--------------------------------------------------------------------------------------------------------|
| 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. |
| Ingestion | May be harmful if swallowed |
| Conditions Aggravated by Exposure | The toxicological properties have not been thoroughly investigated. |

Section 12- Ecological Information

No data available.

Section 13- Disposal Considerations

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|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Appropriate Method of Disposal of Substance or Preparation | Contact a licensed professional waste disposal service to dispose of this material. 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

| | |
|---------------------------------|-----------------------------------------------------------------|
| 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

| | |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 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

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.