



120 Centennial Ave
Piscataway
NJ 08854, USA

Material Safety Data Sheet

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|-----------------|----------------------|
| Technical phone | 732-885-9188 ext 127 |
| Emergency phone | 732-885-9188 ext 111 |
| Fax | 732-210-0262 |
| Email | info@genscript.com |
| Date updated | 07/01/2008 |

Section 1-Product Information

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|------------------|-------------------------------|
| Product name | Angiotensinogen (1-14), human |
| Product Cat. No. | RP10253 |

Section 2-Composition / Information on Ingredients

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|------------------------|--|
| Substance/Preparation: | Substance |
| Ingredient Name | Angiotensinogen (1-14), human |
| CAS No. | 104180-23-6 |
| SARA 313 | No |
| Formula | C ₈₃ H ₁₂₂ N ₂₄ O ₁₉ |

Section 3- Hazards Identification

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

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|----------------------|--|
| Flash Point | Not available |
| Autoignition Temp | Not available |
| Flammability | Not available |
| Extinguishing Media | |
| Suitable | 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

| | |
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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 |

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| 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. |
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Section 7-Handling and Storage

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

Section 8-Exposure Controls/Personal Protection Equipment

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|-------------------------------|--|
| Engineering Controls | Mechanical exhaust required |
| Personal Protective equipment | |
| 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

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|-----------------------|---------------------|
| Appearance | |
| Physical State | Solid |
| Property | |
| Molecular Weight | 1760.1 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 | Solubility in water |

Section 10- Stability and Reactivity

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|----------------------------------|--|
| 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 | |
| Multiple Routes | May be harmful by inhalation, ingestion, or skin absorption. |
| 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 | 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. |
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Section 14- Transport Information

DOT

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| 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. |
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| DSL | No |
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| NDSL | No |
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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.