

GENSCRIPT CORPORATION

Material Safety DATA Sheet

Date updated: 23/09/2008

Section 1-product and company information

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|---------------------------|---------------------------|
| Product name | Hercules Endonuclease |
| Product Cat. No. | Z02038 |
| Company | Genscript Corporation |
| Street address | 120 Centennial Ave |
| City, State, Zip, Country | Piscataway, NJ 08854, USA |
| Technical phone: | 732-885-9188 ext 124 |
| Emergency phone | 732-885-9188 ext 111 |
| Fax: | 732-210-0262 |

Section 2-Composition / information on ingredients

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| Substance/Preparation | Preparation |
| Dangerous components | Not available |

Section 3- Hazards identification

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| Physical/chemical hazards | Harmful |
| Human health hazards | Harmful if swallowed. Irritating to eyes and skin. |
| NFPA ratings (scale 0–4) | Health Rating: 2 Reactivity Rating: 0 Contact Rating: 0 |

Section 4- First-aid measures

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| Inhalation | If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. |
| Ingestion | DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband. |
| Skin Contact | In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention. |
| Eye Contact | Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention. |
| Aggravating | Repeated or prolonged exposure is not known to aggravate medical condition. |

conditions

Section 5- Fire-fighting measures

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| Flammability of the Product | May be combustible at high temperature. |
| Extinguishing Media | Foam, CO ₂ , Water, Dry chemical powder |
| Suitable | SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet. |
| Hazardous thermal (de)composition | These products are carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂ ...). |
| Special fire-fighting procedures | Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. |
| Protection of fire-fighters | Be sure to use an approved/certified respirator or equivalent to prevent contact with skin and eyes. |

Section 6- Accidental release measures

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| Personal precautions | Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist before handling this product. |
| Small Spill and Leak | Use appropriate tools to put the spilled solid in a convenient waste disposal container. |
| Large Spill and Leak | Use a shovel to put the material into a convenient waste disposal container. |

Section 7-Handling and storage

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| Handling | Avoid Inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. |
| Storage | Stable at 4 °C for several weeks, for long-term storage, store it at -20 °C after receiving. No obvious decrease of enzyme activity can be found after an incubation at 37 °C for a week. |
| Recommended use | Use original container. |

Section 8-Exposure controls/personal protection

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| Engineering measures | Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. |
| Hygiene measures | Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day. |
| Personal protective equipment | Skin and body: Lab coat. Eyes: Safety glasses. Protective Clothing (Pictograms): |



Section 9- Physical and chemical properties

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| Physical state | Liquid |
| Color | No color. |
| Flash point | Not available. |
| Explosive properties | Not available. |

Section 10- Stability and reactivity

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| Stability | The product is stable. |
| Conditions to avoid | Not available. |
| Hazardous Decomposition Products | Carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂ ...). |
| Hazardous Polymerization | Will not occur |

Section 11- Toxicological information

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| Skin irritation | Not available. |
| Acute toxicity | Not available. |
| Chronic toxicity | Repeated or prolonged exposure is not known to aggravate medical condition. |
| Other Toxic Effects on Humans | Not available. |
| Carcinogenic effects | Not available. |
| Mutagenic effects | Not available. |
| Reproduction toxicity | Not available. |
| Teratogenic effects | Not available. |

Section 12- Ecological information

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| Eco-toxicity | Not available. |
| Toxicity of the Products of Biodegradation | Not available. |

Section 13- Disposal considerations

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| Methods of disposal; Waste of residues; | Waste must be disposed of in accordance with federal, state and local environmental control regulations. |
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Section 14- Transport information

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| Land - Road/Railway ADR/RID Class | Not controlled under ADR (Europe). |
| Sea IMDG Class | Not controlled under IMDG. |

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| Air IATA-DGR Class | Not controlled under IATA. |
| Special Provisions for Transport | Not applicable. |

Section 15- Regulatory information

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| EU Regulations | This product is not classified according to the EU regulations. |
| U.S. Federal Regulations | TSCA: No products were found. SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: No products were found. SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found. SARA 313 toxic chemical notification and release reporting: No products were found. Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found. Clean air act (CAA) 112 accidental release prevention: No products were found. Clean air act (CAA) 112 regulated flammable substances: No products were found. Clean air act (CAA) 112 regulated toxic substances: No products were found. |
| HCS Classification | Not controlled under the HCS (United States). |
| State Regulations | Not controlled under WHMIS (Canada). |

Section 16- Other information

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| Disclaimer | For <i>In Vitro</i> research use only. |
| Warranty | To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. |
