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|-----------------|----------------------|
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| Date updated | 10/26/2008 |

Section 1-Product information

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| Product name | HDAC4 Antibody (Phospho-Ser ⁶³²), pAb, Rabbit |
| Product Cat. No. | A00338 |

Section 2-Composition / information on ingredients

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| Substance/Preparation: | Substance |
| Ingredient Name | HDAC4 Antibody (Phospho-Ser ⁶³²), pAb, Rabbit |
| CAS No. | Not available |
| EC Number | Not available |
| Symbol | Not available |
| R-Phrases | Not available |

Section 3- Hazards identification

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| Emergency Overview | Sodium azide may react with lead and copper plumbing to form highly explosive metal azides. |
| HMIS Rating | |
| Health | 2 |
| Flammability | 0 |
| Reactivity | 0 |
| NFPA Rating | |
| Health | 2 |
| Flammability | 0 |
| Reactivity | 0 |

Section 4- First-aid measures

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| First-aid measures | |
| 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 conditions | Repeated or prolonged exposure is not known to aggravate medical condition. |

Section 5- Fire-fighting measures

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| Flammability of the Product | May be combustible at high temperature. |
| Suitable | SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet. |
| Hazardous thermal (de)composition products | 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.

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 | Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust. |
| Storage | Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 4°C (39.2°F). |
| 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. |
| 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 | Not available |
| Molecular Weight | Not available |
| Solubility | Not available |
| Flash point | Not available |
| Explosive properties | Risks of explosion of the product in presence of mechanical impact: Not available Risks of explosion of the product in presence of static discharge: Not available |

Section 10- Stability and reactivity

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| Stability | The product is stable |
| Conditions to avoid | Not available |
| Hazardous Decomposition Products | These products are carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂ ...). |

Section 11- Toxicological information

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| RTECS # | N/A |
| Skin irritation | Not available |
| Acute toxicity | LD50: Not available LC50: Not available |
| Chronic toxicity | Repeated or prolonged exposure is not known to aggravate medical condition. |
| Other Toxic Effects on Humans | Not available No specific information is available in our database regarding the |

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| | other toxic effects of this material for humans. |
| | Not available |
| | To the best of our knowledge, the toxicological properties of this product have not been thoroughly investigated. |
| Carcinogenic effects | Not available |
| Mutagenic effects | Not available |
| Reproduction toxicity | Not available |
| Teratogenic effects | Not available |

Section 12- Ecological information

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| Ecotoxicity | Not available |
| Toxicity of the Products of Biodegradation | The product itself and its products of degradation are not toxic. |

Section 13- Disposal considerations

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| Methods of disposal; Waste of residues; Contaminated Packaging | 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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| International transport regulations | |
| Land - Road/Railway | |
| ADR/RID Class | Not controlled under ADR (Europe) |
| Sea | |
| IMDG Class | Not controlled under IMDG |
| Air | |
| IATA-DGR Class | Not controlled under IATA |
| Special Provisions for Transport | Not applicable |

Section 15- Regulatory information

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|--------------------------------------|---|
| US classification and label text | US Statements: Sodium azide may react with lead and copper plumbing to form highly explosive metal azides. |
| United States regulatory information | SARA LISTED: No 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. |
| Canada regulatory information | DSL: No NDSL: No |

Section 16- Other information

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| Hazardous Material Information System (U.S.A.) | Health 0 | National Fire Protection Association (U.S.A.) |  |
| | Fire Hazard 1 | | |
| | Reactivity 0 | | |
| | Personal Protection A | | |

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.