

rAVE™ (vector reagent)

This MSDS conforms to the U.S. Occupational Health and Safety Administration (OSHA) Hazard Communication Standard (HCS) and American National Standards Institute (ANSI) standard Z400.1-1998

1 Commercial Product Name and Supplier

- | | | |
|-----|-------------------------------------|---|
| 1.1 | Commercial Product Name/Designation | rAVE gene delivery reagent Synonym: rAAV |
| 1.2 | Application/Use | Research Use Only |
| 1.3 | Producer/Supplier | GENEDETECT.COM LIMITED 209 Taylor Street, Suite 4 Blockhouse Bay, Auckland New Zealand Tel. +64 9 353-1320 Fax. +64 9 353-1320 |
| 1.4 | TOX Emergency phone Number | +64 9 626-6318 |
| 1.5 | Product No. | GD100X-RV, where X = 0, 1, 2, 3, 4, 5, or 9 |

2 Composition

- | | | |
|-----|----------------------|--|
| 2.1 | Characteristics | icosahedral, 20-25 nm in diameter; single stranded DNA genome with protein capsid. |
| 2.2 | CAS Number | Not Available |
| 2.3 | Hazardous Components | None |

3 Hazards Identification

- | | | |
|-----|---|--|
| 3.1 | Most Important Hazards | This product is not hazardous according to the Department of Health and Humans Services, National Institutes of Health |
| 3.2 | National Institutes of Health, Classification of Human Etiological Agents (i.e. Risk Group) | Belongs to Risk Group 1 (RG 1). "Agents not associated with disease in healthy human subjects". |

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| 4 | First Aid Measures | |
| 4.1 | Skin Contact | Wash contact areas with soap and plenty of water. Consult a physician. |
| 4.2 | Eye Contact | Hold eyes open and flush with plenty of water for at least 15 minutes. Consult a physician. |
| 4.3 | Ingestion | Wash out mouth with copious amounts of water. Consult a physician. |
| 4.4 | Inhalation | Consult a physician. |
| 5 | Fire Fighting Measures | |
| 5.1 | Suitable Extinguishing Media | Water fog, carbon dioxide, foam, dry chemicals |
| 5.2 | Unsuitable Extinguishing Media | None |
| 5.3 | Required Special Protective Equipment | None for fire-fighters |
| 6 | Accidental Release Measures | |
| 6.1 | Spills | Allow aerosols to settle for 15 minutes. Cover the spill with absorbent paper towel and apply freshly prepared 10% bleach (sodium hypochlorite) starting at the perimeter and working toward the center. Allow 30 minutes contact time before clean up. |
| 7 | Handling and Storage | |
| 7.1 | Handling | Safe handling and storage practice should be observed. |
| 7.2 | Storage | In sealed containers that are appropriately labeled. |
| 8 | Exposure Controls | |
| 8.1 | Technical Measures | No specific requirement |
| 8.2 | Control of Threshold Limits | None established |
| 8.3 | Personal Protective Equipment | |
| 8.3.1 | Respiratory Protection | Use an approved dust respirator |
| 8.3.2 | Hand Protection | Use protective latex glove |
| 8.3.3 | Eye Protection | Use safety goggles |
| 8.3.4 | Other | Use protective clothing |

9 Physical and Chemical Properties

| | |
|------------------------------|---|
| 9.1 Appearance | Solution (0.3ml) |
| 9.2 Color | None |
| 9.3 Odor | Low |
| 9.4 Change of Physical State | None |
| 9.5 Density | 1.0 |
| 9.6 Vapor Pressure | Not Applicable |
| 9.7 Viscosity | 1.0 |
| 9.8 Solubility in Water | Not Applicable |
| 9.9 pH | 7.4 |
| 9.10 Flashpoint | Not Applicable |
| 9.11 Ignition Temperature | Not Applicable |
| 9.12 Explosion Limits | Lower – vol % Upper – vol % Not Flammable |

10 Stability and Reactivity

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|------------------------------|---|
| 10.1 Thermal Decomposition | Stable under recommended storage conditions |
| 10.2 Hazardous Decomposition | None |
| 10.3 Hazardous Reactions | None |

11 Toxicological Information

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|--------------------------------|------|
| 11.1 Acute Toxicity | None |
| 11.2 Subacute/Chronic Toxicity | None |

12 Ecological Information

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|------------------------|--|
| 12.1 No Data Available | |
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13 Disposal Considerations

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| 13.1 Considerations | None |
| 13.2 Inactivation | Susceptibility to Disinfectants: Susceptible to 5% phenol, 10% bleach, or 10% Wescodyne. Recommend fresh solution of 10% bleach for 30 minutes. |

14 Transport Information

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| 14.1 Air Transport | Material should be sealed in primary and secondary containers, appropriately labeled and kept at or below 4°C |
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| 14.2 Label | Non-toxic, perishable, reagent for laboratory testing | | |
| 14.3 GGVE/GGVS | Class | Cipher | |
| RID/ADR | Class | Cipher | |
| UN-No | | | |
| Kemler No | | | |
| Overland Statement | | | |
| GGVSee Class Cipher | Class | Cipher | |
| ANDR Class Cipher Cat. | Class | Cipher | Cat |
| UN-No. | | | |
| IMDG-code page | | | |
| EMS | | | |
| MFAG | | | |
| Packing Group | | | |
| See Transport Statement | | | |
| ICAO/IATA-DGR | | | |
| UN-No. | | | |
| Proper Shipping Name | | | |
| Subsidiary Risk | | | |
| Labels | | | |
| Packing Group | | | |
| Passenger Aircraft | | | Packing Instruction max. |
| Cargo Aircraft Only | | | Packing Instruction max. |
| Further Information | | | Not a hazardous material according to the above-mentioned transport regulations. |

15 Regulatory Information

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|------------------------------|---|
| 15.1 UN or NA Number | Not Applicable |
| 15.2 EC-Number | - |
| 15.3 Hazard Symbols | None |
| 15.4 Hazard Designation | None |
| 15.5 Risk Phrases | R: - |
| 15.6 Safety Phrases | S: S24 and S25 |
| 15.7 MAK Value | No occupational exposure limits have been established |
| 15.8 BVD Classification (CH) | Not Known |
| 15.9 VbF (D) | Not Flammable |

16 Other Information

None