

Safety Data Sheet

Section 1: Product & Company Identification

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| Product Name: | Actinopyrone A |
| Product #: | A-1290 |
| Synonyms: | (+)-Actinopyrone A; SS 1538A |
| Supplier: | AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego, CA 92131 Tele# + 858-452-9925 |
| Emergency Tele#: | ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585 |

Section 2: Composition / Information on Ingredients

| Component | CAS # | EC # | % Composition |
|----------------|------------|------|---------------|
| Actinopyrone A | 88378-59-0 | - | > 95 |

Section 3: Hazards Identification

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| Symbols | N/A |
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HMIS Rating

| Health Hazard | Chronic Health Hazard | Flammability | Physical Hazard |
|---------------|-----------------------|--------------|-----------------|
| 0 | 0 | 0 | 0 |

NFPA Rating

| Health Hazard | Fire Hazard | Reactivity Hazard |
|---------------|-------------|-------------------|
| 0 | 0 | 0 |

Section 4: First Aid Measures

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| General Overview: | No special measures required. |
| Inhalation: | Supply fresh air, consult a doctor in case of complaints. |
| Skin: | Generally, the product does not irritate the skin. |
| Eyes: | Rinse opened eyes for several minutes under running water. |
| Ingestion: | If symptoms persist, consult a doctor. |
| | See section 11 for more detailed information on health effects & symptoms. |

SECTION 5: Fire Fighting Measures

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| Flammability of the product: | Product is not flammable. |
| Extinguishing Media: | Use firefighting measures that suit the environment. A solid water stream may be inefficient. |
| Hazardous thermal (de)composition products: | No data available |
| Special Fire Fighting Procedures: | No special measures required. |
| Flash Point: | No data available |

Section 6: Accidental Release Measures




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| Personal Precautions: | Not required |
| Environmental Precautions: | Do not allow to enter sewers/surface or ground water. |
| Methods for Clean-up: | Pick up mechanically. |

SECTION 7: Handling & Storage

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| Storage: | Recommended storage temperature: -20°C |
| Handling: | No special measures required. |

SECTION 8: Exposure controls / Personal Protection

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| Respiratory Protection: |  <p>Not required</p> |
| Skin and Body: | |

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| |   <p>Lab coat and protective gloves.</p> |
| Eyes: |  <p>Not required</p> |
| Ventilation/Engineering Measures: | Ensure adequate ventilation. |
| Hygiene: | The usual precautionary measures for handling chemicals should be followed. |
| Other: | N/A |

SECTION 9: Physical and Chemical Properties

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| Appearance & Odor: | Solid. Characteristic odor. |
| Formula | $C_{25}H_{36}O_4$ |
| Molecular Wt. | 400.6 |
| Melting Pt. | No data available |
| Boiling Pt. | No data available |
| Density: | No data available |
| Vapor Pressure: | No data available |
| Evaporation Rate: | No data available |
| Vapor Density: | No data available |
| Solubility: | Ethanol, Methanol, DMF, DMSO |
| Flash Point: | No data available |
| Autoignition Temp: | No data available |

SECTION 10: Stability and Reactivity

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| Stability: | Stable under recommended storage conditions. |
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| Hazardous decomposition products: | Carbon dioxide, carbon monoxide |
| Materials to Avoid: | Strong oxidizing agents |
| Conditions to avoid: | No data available |

SECTION 11: Toxicological Information

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|--|---|
| RTECS#: | N/A |
| ACUTE Toxicity: | N/A |
| CHRONIC Toxicity: | N/A |
| Chronic Exposure: Carcinogen: Mutagen: Teratogen: Reproductive: | <p>IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.</p> <p>AGGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, potential human carcinogen by ACGIH.</p> <p>NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated human carcinogen by NTP.</p> <p>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as known or potential human carcinogen by OSHA.</p> <p>EPA: No classification on carcinogenic data is available from EPA</p> |

SECTION 12: Ecological Information

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| Ecotoxicity: | Water hazard class 1 (self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course, or sewage system. |
| Mobility: | No data available |
| Persistence and degradability: | No data available |
| Bioaccumulative potential: | No data available |
| Other adverse effects: | No data available |
| Corrosivity Characteristic: | No data available |
| General Notes: | No data available |

SECTION 13: Disposal Considerations

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| Residue Waste or Unused product: | Smaller quantities may be disposed of with household waste. |
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| Contaminated Packaging: | Disposal must be made according to official regulations. |
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SECTION 14: Transportation Information

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| UN ID#: | N/A |
| ADR / RID (LAND): | Not regulated |
| DOT regulations: | Not regulated |
| IMDG/IMO (SEA): | Not regulated |
| IATA/DGR (AIR): | Not regulated |
| Special Provisions: | N/A |

SECTION 15: Regulatory Information

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| Health Phrases: | Not hazardous |
| Risk Phrases: | N/A |
| Safety Phrases: | N/A |
| EU Regulations: | N/A |
| US Regulations: | TSCA: Not listed California Proposition 65: No products were found |
| U.S. Federal Regulations: | SARA 302/304 emergency planning and notification: No products were found. SARA 311/312 MSDS distribution-chemical inventory-hazard identification: No products were found. SARA 313 toxic chemicals 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. OSHA: N/A |
| WHMIS (Canada): | N/A |

SECTION 16: Other Information

LIABILITY STATEMENT: *The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. AG Scientific shall not be held liable for any damages resulting from handling or from contact with the above product. AG Scientific products are for research purposes only. Not for human use or consumption.*