

## Safety Data Sheet

### Section 1: Product & Company Identification

<b>Product Name:</b>	Virginiamycin Complex
<b>Product #:</b>	V-2501
<b>Synonyms:</b>	Mikamycin; RP 7293; Stapyocine; Streptogramin
<b>Supplier:</b>	AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego, CA 92131 Tele# + 858-452-9925
<b>Emergency Tele#:</b>	ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585

### Section 2: Composition / Information on Ingredients

Component	CAS #	EC #	% Composition
Virginiamycin Complex	11006-76-1	234-244-6	≥85

### Section 3: Hazards Identification

<b>Symbols</b>			
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#### HMIS Rating

Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard
3	*	0	0

#### NFPA Rating

Health Hazard	Fire Hazard	Reactivity Hazard
3	0	0

### Section 4: First Aid Measures

<b>General Overview:</b>	Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
<b>Inhalation:</b>	Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.
<b>Skin:</b>	Immediately wash with water and soap and rinse thoroughly.

<b>Eyes:</b>	Rinse opened eyes for several minutes under running water. Then consult a doctor.
<b>Ingestion:</b>	Immediately call a doctor.
	See section 11 for more detailed information on health effects & symptoms.

## SECTION 5: Fire Fighting Measures

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

## Section 6: Accidental Release Measures




<b>Personal Precautions:</b>	Wear protective equipment. Keep unprotected persons away.
<b>Environmental Precautions:</b>	Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
<b>Methods for Clean-up:</b>	Use neutralizing agent. Dispose contaminated material as waste according to section 13.

## SECTION 7: Handling & Storage

<b>Storage:</b>	Recommended storage temperature: -20°C
<b>Handling:</b>	Thorough dedusting.

## SECTION 8: Exposure controls / Personal Protection

<b>Respiratory Protection:</b>	 <p>Not required.</p>
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<b>Skin and Body:</b>	  <p>Protective gloves and lab coat.</p>
<b>Eyes:</b>	 <p>Tightly sealed goggles.</p>
<b>Ventilation/Engineering Measures:</b>	Ensure adequate ventilation.
<b>Hygiene:</b>	Follow standard good industrial hygiene.
<b>Other:</b>	Contains no substances with occupational exposure limit values.

## SECTION 9: Physical and Chemical Properties

<b>Appearance &amp; Odor:</b>	Solid. Characteristic odor.
<b>Formula</b>	$C_{43}H_{49}N_7O_{10} \cdot C_{28}H_{35}N_3O_7$
<b>Molecular Wt.</b>	1349.5
<b>Melting Pt.</b>	No data available
<b>Boiling Pt.</b>	No data available
<b>Density:</b>	No data available
<b>Vapor Pressure:</b>	No data available
<b>Evaporation Rate:</b>	No data available
<b>Vapor Density:</b>	No data available
<b>Solubility:</b>	DMSO, DMF
<b>Flash Point:</b>	No data available
<b>Autoignition Temp:</b>	No data available

## SECTION 10: Stability and Reactivity

<b>Stability:</b>	No decomposition if used according to specifications.
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<b>Hazardous decomposition products:</b>	Carbon oxides, nitrogen oxides
<b>Materials to Avoid:</b>	Strong oxidizing agents
<b>Conditions to avoid:</b>	No data available

## SECTION 11: Toxicological Information

<b>RTECS#:</b>	ZA4850000
<b>ACUTE Toxicity:</b>	<p>Primary irritant effect:</p> <ul style="list-style-type: none"> <li>· on the skin: No irritant effect.</li> <li>· on the eye: Strong irritant with the danger of severe eye injury.</li> <li>· Sensitization: Sensitization possible through skin contact.</li> <li>· Additional toxicological information:</li> <li>· Interactive effects No interactive effects between components are known.</li> </ul>
<b>CHRONIC Toxicity:</b>	N/A
<b>Chronic Exposure:</b> <b>Carcinogen:</b> <b>Mutagen:</b> <b>Teratogen:</b> <b>Reproductive:</b>	<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

<b>Ecotoxicity:</b>	Water hazard class 2 (Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms
<b>Mobility:</b>	No data available
<b>Persistence and degradability:</b>	No data available
<b>Bioaccumulative potential:</b>	No data available

<b>Other adverse effects:</b>	No data available
<b>Corrosivity Characteristic:</b>	No data available
<b>General Notes:</b>	No data available

## SECTION 13: Disposal Considerations

<b>Residue Waste or Unused product:</b>	Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
<b>Contaminated Packaging:</b>	Disposal must be made according to official regulations.

## SECTION 14: Transportation Information

<b>UN ID#:</b>	UN3077
<b>ADR / RID (LAND):</b>	N/A
<b>DOT regulations:</b>	Environmentally hazardous substance, solid, n.o.s. (Virginiamycin Complex) Class 9 Miscellaneous dangerous substances and articles Label 9 Packing group III
<b>IMDG/IMO (SEA):</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Virginiamycin Complex) Class 9 Miscellaneous dangerous substances and articles Label 9 Packing group III  Limited quantities (LQ) 5 kg Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
<b>IATA/DGR (AIR):</b>	Environmentally hazardous substance, solid, n.o.s. (Virginiamycin Complex) Class 9 Miscellaneous dangerous substances and articles Label 9 Packing group III Special marking: Symbol (fish and tree)  Remarks: When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.
<b>Special Provisions:</b>	Marine pollutant: Symbol (fish and tree) Warning: Miscellaneous dangerous substances and articles Hazardous identification number (Kemler code): 90 EMS Number: F-A,S-F

	Stowage Category: A Stowage Code: SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.
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**SECTION 15: Regulatory Information**

<b>Health Phrases:</b>	Danger! H302 Harmful if swallowed. H318 Causes serious eye damage. H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects.
<b>Risk Phrases:</b>	P261 Avoid breathing dust/fume/gas/mist/vapors/spray P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing must not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves / eye protection / face protection.
<b>Safety Phrases:</b>	P301+P312 If swallowed: Call a poison center/doctor if you feel unwell. P302+P352 If on skin: Wash with plenty of water. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a poison center/doctor. P321 Specific treatment (see on this label). P330 Rinse mouth. P362+P364 Take off contaminated clothing and wash it before reuse. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P391 Collect spillage. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>EU Regulations:</b>	N/A
<b>US Regulations:</b>	TSCA: Not listed California Proposition 65: No products were found
<b>U.S. Federal Regulations:</b>	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: Eye damage (Cat. 1); Aquatic toxicity - chronic (Cat. 2); Acute toxicity - oral (Cat. 4); Sensitization - skin (Cat. 1)
<b>WHMIS (Canada):</b>	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.*