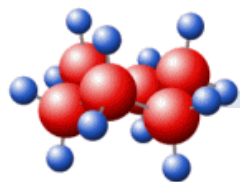
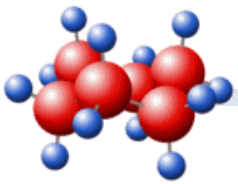


## MSDS- Material Safety Data Sheet for: Virginiamycin-S1

	<i>Section 1. Product and Company Information</i>	
<b>Company identification</b>	<u>Fermentek Ltd,</u> <u>Yatziv 4 st, Atarot industrial zone,</u> Jerusalem Israel 97800. POB 47120	Tel. +97225853953 Fax.+97225853943 Fermentek@fermentek.com <a href="http://fermentek.com">http://fermentek.com</a>
<b>Name:</b>	Virginiamycin-S1	
<b>CAS Number:</b>	23152-29-6	
<b>Catalog Code:</b>	VM	
<b>Synonyms</b>	Virginiamycin S1  EINECS 245-462-6  N-((3-Hydroxy-2-pyridinyl)carbonyl)-L-threonyl-D-alpha-aminobutyryl-L-prolyl-N-methyl-L-phenylalanyl-4-oxo-L-pipecoloyl-L-2-phenylglycine rho-lactone  N-(3-Hydroxypicolinoyl)-L-threonyl-D-alpha-aminobutyryl-L-prolyl-N-methyl-L-phenylalanyl-4-oxo-L-pipecoloyl-L-2-phenylglycine rho-lactone	
<b>Intended uses</b>	Laboratory chemical, Research reagent Intended for use by trained scientists. Not for drug use in humans or animals	
	<i>Section 2. Composition/Information on Ingredient</i>	
<b>Chemical Formula:</b>	<b>C<sub>43</sub>H<sub>49</sub>N<sub>7</sub>O<sub>10</sub></b>	
<b>RTECS</b>	Data unavailable	
	<i>Section 3. Hazards Identification</i>	
<b>Overview</b>	Not a hazardous substance by EC-directive 67/548/EEC 1999/45/EC, Regulation (EC) No. 1272/2008	
	<i>Section 4. First Aid Measures</i>	
<b>Eye Contact</b>	Check for and remove contact lenses. Flush eyes with running water for at least 15 minutes separating eyelids. Seek medical attention immediately.	
<b>Skin Contact</b>	Wash with soap and water for 15 minutes. Remove contaminated clothing and shoes. Seek medical attention immediately	
<b>Inhalation</b>	Remove from exposure. If breathing is difficult, administer oxygen. If breathing stops, administer artificial respiration. Seek medical attention immediately. Provide chemical label and MSDS if possible.	
<b>Ingestion</b>	Remove dentures and clear mouth. If person is conscious, rinse mouth with water. Call physician or poison control immediately. Provide chemical label and MSDS information if possible.	
	<i>Section 5. Fire and Explosion Data</i>	
<b>Flammability</b>	Not Available	



<b>Flash Point</b>	Not Available
<b>Combustion products</b>	CO, CO2
<b>Extinguishing Media</b>	Carbon Dioxide, Dry chemical powder, polymer foam, water spray
<b>Special Fire fighting Procedures</b>	Use self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
<b>Unusual Fire Hazards</b>	None known
<b>Section 6 - Accidental Release Measures</b>	
<b>Clean-up Procedures</b>	Wearing appropriate protective gear as outlined under "Protective equipment" wipe up spill and place in sealed container and hold for disposal. Avoid raising dust. Ventilate the area and wash spill site after material has been removed
<b>Waste Disposal Method</b>	Observe all Federal, State and Local regulations concerning the disposal of this product. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete
<b>Section 7 - Handling and Storage</b>	
<b>Protective Equipment</b>	For spill clean-up, wear suitable protective clothing, chemical resistant rubber gloves, rubber boots, and chemical safety goggles. Self-contained breathing apparatus or NIOSH/MSHA approved respirator is recommended.
<b>Storage and Handling</b>	This product should be kept in a tightly closed container. This product should be handled only by qualified experienced professionals. Wash thoroughly after handling this material. Prolonged Store at -18oC.
<b>Section 8 - Exposure Controls / Personal protection</b>	
<b>General</b>	Use in a chemical fume hood. Safety shower and eye bath. Use adequate ventilation to keep airborne concentrations low. Employ common industrial hygiene/safety practices.
<b>Personal protective equipment</b>	Respiratory: not required. Hand: Compatible chemical-resistant gloves. Eye: Chemical safety goggles.
<b>Section 9. Physical Data</b>	
<b>Appearance</b>	White solid
<b>Molecular Weight</b>	824
<b>Melting</b>	165oC -175oC
<b>Solubility</b>	Ethanol (3-4%), Methanol (3-4%), DMSO, Dichloromethane, DMF, water(sparingly).
<b>Section 10. Stability and Reactivity Data</b>	
<b>Stability</b>	This material is stable if stored as directed
<b>Conditions to Avoid</b>	Excess heat, incompatible materials, strong oxidizers
<b>Incompatibles</b>	Reactive with strong oxidizing agents.
<b>Hazardous polymerization</b>	Will not occur
<b>Section 11 - Toxicological Information</b>	
<b>RTECS#:</b>	No data available
<b>Acute Toxicity data</b>	Data unavailable
<b>Signs and</b>	



<b>symptoms of exposure</b>	
<b>Carcinogenicity</b>	None (by IARC)
<b>Potential effects</b>	<p>Skin Contact: May cause skin irritation.</p> <p>Skin Absorption: May be harmful if absorbed through the skin.</p> <p>Eye Contact: May cause eye irritation.</p> <p>Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.</p> <p>Ingestion: May be harmful if swallowed</p>
<b>Chronic exposure - mutagen</b>	No information available
<b>Section 12 - Ecological Data</b>	
<b>Ecotoxicological Information:</b>	None Available
<b>Section 13 - Disposal Considerations</b>	
<b>Appropriate method of disposal of substance or preparation</b>	Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
<b>Section 14 - Transport Information</b>	
<b>Rid/adr:</b>	Non-hazardous for transport.
<b>Imdg</b>	Non-hazardous for transport.
<b>Iata</b>	Non-hazardous for air transport.
<b>Section 15-Regulatory Information</b>	
<b>European information</b>	No labelling is required.
<b>Section 16 -Other Information</b>	
<b>Warranty</b>	For R&D use only. Not for drug, household or other uses. For use only by trained personnel.
<b>Disclaimer</b>	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. The burden of safe use of this material rests entirely with the user. Fermentek shall not be held liable or any damage resulting from handling or from contact with the above product.