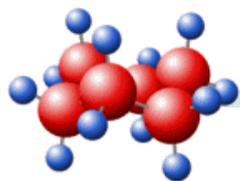


## MSDS- Material Safety Data Sheet: Staurosporine

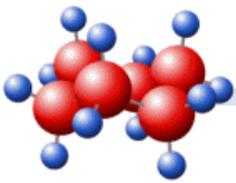
	<b>Section 1. Product and Company Information</b>	
<b>Company identification</b>	Fermentek Ltd 4 Yatziv st, Jerusalem 97800 POB 47120 Israel	Tel +97225853953 Fax +97225853943 http://fermentek.com MSDS@fermentek.com
<b>Name:</b>	Staurosporine from Streptomyces species	
<b>CAS Number:</b>	62996-74-1	
<b>Catalog Code:</b>	ST	
<b>Synonyms</b>	Not available	
<b>Identified uses</b>	Research chemical; manufacture of substances.	
	<b>Section 2. Composition/Information on Ingredient</b>	
<b>Chemical Formula:</b>	C <sub>28</sub> H <sub>26</sub> N <sub>4</sub> O <sub>3</sub>	
<b>Chemical Class:</b>	Natural antibiotic	
<b>RTECS</b>		
	<b>Section 3. Hazards Identification</b>	
<b>Emergency Overview</b>	To our best knowledge, the toxicological properties of this substance have not been sufficiently studied.	
<b>HMIS RATING</b>	Health:0; Fire hazard:1; reactivity: 0; Personal protection: A	
<b>NFPA RATING</b>	Health:0; Fire hazard:1; reactivity: 0; Specific hazard: None	
	<b>Section 4. First Aid Measures</b>	
<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. 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.	
<b>Aggravating conditions</b>	Repeated or prolonged exposure is not known to aggravate medical condition.	
	<b>Section 5. Fire and Explosion Data</b>	
<b>Flammability</b>	N.A.	
<b>Flash Point</b>	N.A.	
<b>Combustion Products</b>	CO, CO <sub>2</sub> , nitric oxides	
<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>Cleanup 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	



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<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 Store at -18oC
<b>Section 8 - Exposure Controls / Personal protection</b>	
<b>General</b>	Use only in a chemical fume hood. Safety shower and eye bath. Use adequate ventilation to keep airborne concentrations low
<b>Personal protective equipment</b>	Respiratory: Government approved respirator. Hand: Compatible chemical-resistant gloves. Eye: Chemical safety goggles.
<b>Section 9. Physical Data</b>	
<b>Appearance</b>	Yellowish powder
<b>Molecular Weight</b>	466.5
<b>Melting</b>	
<b>Solubility</b>	DMSO, Methanol, Ethyl Acetate. Insoluble in water
<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, Exposure to air or moisture over prolonged periods. Light sensitive substance.
<b>Incompatibles</b>	NA
<b>Hazardous polymerization</b>	Will not occur
<b>Section 11 - Toxicological Information</b>	
<b>RTECS#:</b>	
<b>Toxicity data</b>	
<b>Chronic toxicity</b>	Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness.
<b>Local effects</b>	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
<b>Specific effects</b>	May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache.
<b>Acute toxicity:</b>	none known
<b>Section 12 - Ecological Data</b>	
Eco-toxicological Information: not 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>DOT</b>	NA
<b>IATA</b>	Not controlled under IATA.
<b>Section 15- regulatory Information</b>	
<b>SARA 313 Notification:</b>	The above is your notification as to the SARA 313 listing for this product(s) pursuant to Section 313 of Title III of the Superfund Ammendments and Reauthorization Act of 1986 and 40 CFR Part 372. If you are unsure if you are subject to the reporting requirements of Section 313, or need more information, please call the EPA Emergency Planning and Community Right-To-Know Information Hotline: (800) 535-0202 or (202) 479-2499 (in Washington, DC or Alaska).
<b>State Notification:</b>	The above information is your notice as to the Right-to-Know listings of the stated product(s). Individual states will list chemicals for a variety of reasons including, but not limited to, the compounds toxicity; carcinogenic, tumorigenic and/or reproductive hazards; and the compounds environmental impact if accidentally released.



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<i>Section 16 -Other Information</i>	
<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.
	Review: 31.7.2014 MGur

