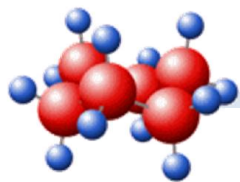
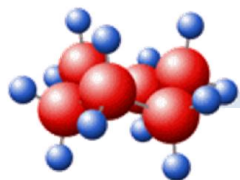


MSDS- Material Safety Data Sheet for: Nigericin

<i>Section 1. Product and Company Information</i>	
Company identification	<p>Fermentek Ltd, Yatziv 4 st, Atarot industrial zone, Jerusalem Israel 97800. POB 47120</p> <p>Tel. +97225853953 Fax.+97225853943 Fermentek@fermentek.com http://fermentek.com</p>
Name:	Nigericin
CAS Number:	28643-80-3
Catalog Code:	N
Synonyms	Polyetherin A, Azalomycin M, Helixin C, Antibiotic K178, Antibiotic X-46
<i>Section 2. Composition/Information on Ingredient</i>	
RTECS	qt6825000
<i>Section 3. Hazards Identification</i>	
	Toxic. Toxic if swallowed. Irritating to eyes, respiratory system and skin
<i>Section 4. First Aid Measures</i>	
Eye Contact	Check for and remove contact lenses. Flush eyes with running water for at least 15 minutes separating eyelids. Seek medical attention immediately.
Skin Contact	Wash with soap and water for 15 minutes. Remove contaminated clothing and shoes. Seek medical attention immediately
Inhalation	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.
Ingestion	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>	
Flammability	Not Available
Flash Point	Not Available
Combustion products	CO, CO2, NO,NO2,
Extinguishing Media	Carbon Dioxide, Dry chemical powder, polymer foam, water spray
Special Firefighting Procedures	Use self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Unusual Fire/Explosion Hazards	None known
<i>Section 6 - Accidental Release Measures</i>	
Cleanup Procedures	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
Waste Disposal	Observe all Federal, State and Local regulations concerning the disposal of this product.



Method	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
Section 7 - Handling and Storage	
Protective Equipment	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.
Storage and Handling	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
Section 8 - Exposure Controls / Personal protection	
General	Use only in a chemical fume hood. Safety shower and eye bath. Use adequate ventilation to keep airborne concentrations low
Personal protective equipment	Respiratory: Government approved respirator. Hand: Compatible chemical-resistant gloves. Eye: Chemical safety goggles.
Section 9. Physical Data	
Appearance	white crystalline powder
Molecular Weight	736.93
Melting	147 to 148'c
Solubility	DMSO, Ethanol, petrol ether. Not soluble in water
Section 10. Stability and Reactivity Data	
Stability	This material is stable if stored as directed
Conditions to Avoid	Excess heat, incompatible materials, strong oxidizers
Incompatibles	Reactive with oxidizing agents, acids, alkalis.
Hazardous polymerization	Will not occur
Section 11 - Toxicological Information	
RTECS#:	qt6825000
Route of exposure	Skin contact: causes skin irritation. Skin absorption: may be harmful if absorbed through the skin. Eye contact: causes eye irritation. Inhalation: material is irritating to mucous membranes and upper Respiratory tract. May be harmful if inhaled. Ingestion: toxic if swallowed.
Signs and symptoms of exposure	Solutions may produce necrosis and formation of scar tissue
Toxicity data	intraperitoneal, Mouse, LD50=48 mg/kg
Chronic exposure - teratogen	Intraperitoneal, Mouse, 9 days pregnancy; Specific developmental abnormalities: central nervous system. Specific developmental abnormalities: craniofacial (including nose and tongue). Specific developmental: abnormalities: musculoskeletal system. Intraperitoneal, Mouse, 10 days pregnancy; Result: effects on embryo or fetus: fetal death.
Section 12 - Ecological Data	
Ecotoxicological Information:	None Available



Section 13 - Disposal Considerations	
Appropriate method of disposal of substance or preparation	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.
Section 14 - Transport Information	
IATA	Proper shipping name: toxins, extracted from living sources, solid, n.o.s. IATA UN number: 3462 Hazard class: 6.1 packing group: III
US DOT	Proper shipping name: toxins, extracted from living sources, solid, n.o.s. Section UN number: 3462 Section Class: 6.1 Section Packing group: packing group iii Section Hazard label: toxic substances. Pih: not pih
Section 15-Regulatory Information	
EU additional classification	Symbol of danger: T Indication of danger: toxic. Risk statements: R: 25-36/37/38: toxic if swallowed. Irritating to eyes, Respiratory system and skin. Safety statements: S: 26-36/37/39-45: in case of contact with eyes, rinse Immediately with plenty of water and seek medical advice. Wear Suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
US regulatory information	sara listed: no
US classification and label text indication of danger	Toxic Risk statements: toxic if swallowed. Irritating to eyes, respiratory system and skin. Safety statements: wear suitable protective clothing, gloves, and eye/face protection. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Section 16 -Other Information	
Warranty	For R&D use only. Not for drug, household or other uses. For use only by trained personnel.
Disclaimer	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	This document has been reviewed on 27-apr-2014