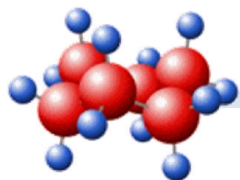


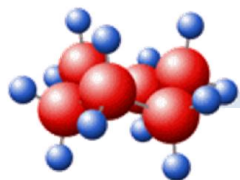
## Material Safety Data Sheet for: Cytochalasin-C

<b>Section 1. Product and Company Information</b>	
<b>Company identification</b>	<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>
<b>Name:</b>	Cytochalasin C
<b>CAS Number:</b>	22144-76-9
<b>Catalog Code:</b>	CD
<b>Synonyms</b>	1H-cycloundec(d)isoindole-1,11(2H)-dione, 3-benzyl-3,3a,6,6a,9,10,12,15-octahydro-6,12,15-trihydroxy-4,5,10,12-tetramehtyl-, 15-acetate Cytochalasin C
<b>Section 2. Composition/Information on Ingredient</b>	
<b>EINECS/ELINCS</b>	244-803-6
<b>Chemical Formula:</b>	C <sub>30</sub> H <sub>37</sub> NO <sub>6</sub>
<b>Chemical Class:</b>	Macrolide indol mycotoxin Cytochalasin
<b>RTECS</b>	Not available
<b>Section 3. Hazards Identification</b>	
<b>Target organ</b>	Liver Possible risk of harm to the unborn child
<b>Effects of Exposure</b>	May be fatal if inhaled, swallowed/absorbed through skin May cause irritation. May affect the liver. Possible teratogen. Highly toxic Possible irreversible effects and teratogen
<b>Signs and symptoms of overexposure</b>	Irritation
<b>HMIS RATING</b>	HEALTH: 4, FLAMMABILITY: 0, REACTIVITY: 0
<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.
<b>Section 5. Fire and Explosion Data</b>	
<b>Flammability</b>	Not Available



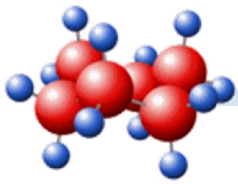
## Material Safety Data Sheet for: Cytochalasin-C

<b>Flash Point</b>	Not Available
<b>Combustion Products</b>	CO, CO2, NO, NO2,
<b>Extinguishing Media</b>	Carbon Dioxide, Dry chemical powder, polymer foam, water spray
<b>Special Firefighting Procedures</b>	Use self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
<b>Unusual Fire/Explosion 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
<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>	White solid.
<b>Molecular Weight</b>	507.6
<b>Melting</b>	Approx. 270oC, decomposition
<b>Solubility</b>	DMSO, Ethanol
<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 oxidizing agents, acids, alkalis.
<b>Hazardous polymerization</b>	Will not occur
<b>Section 11 - Toxicological Information</b>	
<b>RTECS#:</b>	Not available
<b>Route of exposure</b>	Skin Contact: May cause skin irritation. Skin Absorption: May be fatal if absorbed through skin. Eye Contact: May cause eye irritation. Inhalation: May be fatal if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.



## Material Safety Data Sheet for: Cytochalasin-C

	Ingestion: May be fatal if swallowed.
<b>TARGET ORGAN</b>	Liver
<b>Signs and symptoms of exposure</b>	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
<b>Toxicity data</b>	mouse intraperitoneal, LD50>100 mg/kg. Source: Chemical and Pharmaceutical Bulletin. Vol. 21, Pg. 2268, 1973
<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>US DOT</b>	Proper Shipping Name: Alkaloids, solid, n.o.s. IATA UN Number: 1544 Hazard Class: 6.1 Packing Group: II Small quantity provisions apply (see 49CFR173.4)
<b>IATA</b>	Proper Shipping Name: Alkaloids, solid, n.o.s. IATA UN Number: 1544 Hazard Class: 6.1 Packing Group: II
<b>Section 15-Regulatory Information</b>	
<b>US CLASSIFICATION AND LABEL TEXT</b>	Indication of Danger: Highly Toxic (USA) Very Toxic (EU). Risk Statements: Very toxic by inhalation, in contact with skin and if swallowed. Possible risk of harm to the unborn child. Safety Statements: After contact with skin, wash immediately with plenty of polyethylene glycol. Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). US Statements: Target organ(s): Liver
<b>EU ADDITIONAL CLASSIFICATION</b>	Symbol of Danger: T+ Indication of Danger: Very toxic. R: 26/27/28-63 Risk Statements: Very toxic by inhalation, in contact with skin and if swallowed. Possible risk of harm to the unborn child. S: 28-36/37-45 Safety Statements: After contact with skin, wash immediately with plenty of polyethylene glycol. Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).



	<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.

