

Material Safety Data Sheet (MSDS) for Mitomycin C

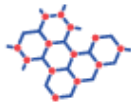
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	Section 1. Product and Company Information
<i>Name:</i>	Mitomycin C
<i>CAS Number:</i>	50-07-7
<i>Catalog Code:</i>	MI
<i>Synonyms</i>	
<i>Company Identification</i>	4 Yatziv street, POB 47120 Jerusalem 97800, Israel Tel: +972 2 5853953 Fax: +972 2 5853943 eMail: fermentek@fermentek.com Website: www.fermentek.com
	Section 2. Composition/Information on Ingredient
<i>EINECS/ELINCS</i>	200-008-6
<i>Chemical Formula:</i>	C ₁₅ H ₁₈ N ₄ O ₅
<i>Chemical Class:</i>	
<i>RTECS</i>	CN0700000
<i>TSCA</i>	
	Section 3. Hazards Identification
<i>EMERGENCY OVERVIEW</i>	Appearance: blue-gray powder. Danger! Highly toxic. May be fatal if swallowed. Causes respiratory tract irritation. Irritant. Causes eye and skin irritation. May cause digestive tract irritation. Potential cancer hazard. May cause cancer based on animal studies. May cause adverse reproductive effects based upon animal studies
<i>Target Organs</i>	Liver, bone marrow
<i>Potential Health Effects</i>	<ul style="list-style-type: none"> • Eye: Causes eye irritation. May cause chemical conjunctivitis. • Skin: Causes skin irritation. • Ingestion: May be fatal if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause liver damage. May cause bone marrow depression. Prolonged absorption may cause anorexia, weight loss, vomiting, mild diarrhea, skin rash, alopecia, convulsions and anemia. Toxic if swallowed. • Inhalation: Causes respiratory tract irritation. May cause pulmonary fibrosis and permanent damage. Can produce delayed pulmonary edema. May cause liver damage. • Chronic: May cause cancer according to animal studies. Effects may be delayed. • Chronic exposure may cause liver damage. Adverse reproductive effects have been reported in animals. Potential cancer hazard
	Section 4. First Aid Measures
<i>Eye Contact</i>	Check for and remove contact lenses. Flush eyes with running water for at least 15 minutes separating eyelids. Seek medical attention immediately.
<i>Skin Contact</i>	Wash with soap and water for 15 minutes. Remove contaminated clothing and shoes. Seek medical attention immediately
<i>Inhalation</i>	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.

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<i>Ingestion</i>	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.
Section 5. Fire and Explosion Data	
<i>Flammability</i>	Not Available
<i>Flash Point</i>	Not Available
<i>Combustion products</i>	CO, CO ₂ , NO,NO ₂ ,
<i>Extinguishing Media</i>	Carbon Dioxide, Dry chemical powder, polymer foam, water spray
<i>Special Firefighting Procedures</i>	Use self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
<i>Unusual Fire/Explosion Hazards</i>	None known
Section 6 - Accidental Release Measures	
<i>Clean-up Procedures</i>	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
<i>Waste Disposal Method</i>	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
Section 7 - Handling and Storage	
<i>Protective Equipment</i>	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.
<i>Storage and Handling</i>	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 -18°C
Section 8 - Exposure Controls / Personal protection	
<i>General</i>	Use only in a chemical fume hood. Safety shower and eye bath. Use adequate ventilation to keep airborne concentrations low
<i>Personal protective equipment</i>	<ul style="list-style-type: none"> • Respiratory: Government approved respirator. • Hand: Compatible chemical-resistant gloves. • Eye: Chemical safety goggles.
Section 9. Physical Data	
<i>Appearance</i>	white crystalline powder
<i>Molecular Weight</i>	334
<i>Melting</i>	360'c
<i>Solubility</i>	Methanol, Water
Section 10. Stability and Reactivity Data	
<i>Stability</i>	This material is stable if stored as directed
<i>Conditions to Avoid</i>	Excess heat, incompatible materials, strong oxidizers
<i>Incompatibles</i>	Reactive with oxidizing agents, acids, alkalis.
<i>Hazardous polymerization</i>	Will not occur



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	Section 11 - Toxicological Information
<i>RTECS#:</i>	CN0700000
<i>Toxicity data</i>	Oral, mouse: LD50 = 23 mg/kg Oral, rat: LD50 = 30 mg/kg
<i>Carcinogenicity</i>	<ul style="list-style-type: none"> IARC: Group 2B carcinogen California: carcinogen, initial date 4/1/88 No data available on human carcinogenicity, however sufficient evidence of carcinogenicity in animals
<i>Mutagenicity</i>	Mutagenic effects have in experimental animals.
<i>Reproductive Effects</i>	Adverse reproductive effects have been reported in experimental animals
	Section 12 - Ecological Data
<i>Eco-toxicological Information:</i>	None Available
	Section 13 - Disposal Considerations
<i>Appropriate method of disposal of substance or preparation</i>	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
<i>US DOT</i>	Not regulated as a hazardous material
	Section 15-Regulatory Information
<i>US FEDERAL</i>	TSCA: CAS# 50-07-7 is listed on the TSCA inventory This product is for research and development use only. It is subject to a SNUR which has specific requirements and restrictions. The specific citation for this product is 40CFR citation 721.5175
<i>European Labelling in Accordance with EC Directives</i>	<p>Risk Phrases:</p> <ul style="list-style-type: none"> R 36/37/38 Irritating to eyes, respiratory system and skin. R 45 May cause cancer. <p>Hazard Symbols: T</p>
	Section 16 -Other Information
<i>DISCLAIMER</i>	For R&D use only. Not for drug, household or other uses. For use only by trained personnel. 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.