

FERMENTEK Ltd
MSDS for Tenuazonic acid (Cu salt)

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	Section 1. Product and Company Information
Name:	Tenuazonic acid (Copper salt)
CAS Number:	610-88-8
Catalog Code:	Te
Company Identification	Fermentek Ltd, See page footer for contact details
	Section 2. Composition/Information on Ingredient
EINECS/ELINCS	Not listed
Chemical Formula:	Cu (C ₁₀ H ₁₄ NO ₃) ₂
Chemical Class:	Pyrrrolidinone mycotoxin
TSCA	Not listed
	Section 3. Hazards Identification
Overview	Toxic if swallowed; Teratogen May be toxic if inhaled or contacted with skin. May cause eye and skin irritation. May irritate respiratory tract, skin, eyes.
	Section 4. First Aid Measures
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.
	Section 5. Fire and Explosion Data
Flammability	Not Available
Flash Point	Not Available
Combustion Products	CO, CO ₂ , NO,NO ₂ , Copper oxides

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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						
Section 6 - Accidental Release Measures							
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 Method	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							
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	light blue-greenish powder						
Molecular Weight	455						
Molecular Formula:	Cu(C ₁₀ H ₁₄ NO ₃) ₂						
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						
Hazardous polymerization	Will not occur						
Section 11 - Toxicological Information							
RTECS	UY7425000						
LD50	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Organism, Route</th> <th style="width: 30%;">LD50 mg/kg</th> <th style="width: 40%;">Source</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Organism, Route	LD50 mg/kg	Source			
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	mouse IP	81	EHP, Environmental Health Perspectives. Vol. 4, Pg. 87, 1973. Link to PubMed
	mouse IV	125	"CRC Handbook of Antibiotic Compounds," Vols.1- , Berdy, J., Boca Raton, FL, CRC Press, 1980Vol. 5, Pg. 65, 1981.
Carcinogenicity	Carcinogenicity suspected (source: Bing Zhou, African Journal of Biotechnology Vol. 7 (8), pp. 1151-1156, 17 April, 2008)		
	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		
US DOT	DOT regulated - small quantity provisions apply (see 49CFR173.4) UN-Number: 2811 Class: 6.1 Packing group: III Proper shipping name: Toxic solids, organic, n.o.s. (3-Acetyl-5-sec-butyl-4-hydroxy-3-pyrrolin-2-one)		
	Section 15-Regulatory Information		
TSCA	Not listed on the TSCA inventory. It is for research and development use only.		
OSHA	Toxic by ingestion, Teratogen		
SARA 311/312	Acute Health Hazard, Chronic Health Hazard		
European/International Regulations			
Hazard Symbols	Xn		
Risk Phrases	22: Harmful if swallowed		
Safety Phrases	S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S 37 Wear suitable gloves. S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S 28A After contact with skin, wash immediately with plenty of water		
WGK (Water Danger/Protection)	N.A.		

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Section 16 -Other Information	
<i>Disclaimer</i>	For R&D use only. Not for drug, household or other uses
<i>Warranty</i>	<p>DISCLAIMER 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.</p> <hr style="width: 20%; margin-left: auto; margin-right: auto;"/>