

MSDS for Thiolutin

	Section 1. Product and Company Information
Name:	Thiolutin
CAS Number:	87-11-6
Catalog Code:	TL
Synonyms	Thiolutin, Farcinicin, Propiopyvothine, Acetopyrrothine
Company Identification	Fermentek ltd, See page footer for contact details
	Section 2. Composition/Information on Ingredient
EINECS/ELINCS	Not listed
Chemical Formula:	C ₈ H ₈ N ₂ O ₂ S ₂
RTECS	JP1355000
	Section 3. Hazards Identification
EMERGENCY OVERVIEW	<ul style="list-style-type: none"> Highly Toxic (USA) Very Toxic (EU). Very toxic if swallowed.
HMIS RATING	HEALTH: 3; FLAMMABILITY: 0; REACTIVITY: 0
NFPA RATING	HEALTH: 3; FLAMMABILITY: 0; REACTIVITY: 0
	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 , SO ₂ , SO ₃
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 -18°C
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	<ul style="list-style-type: none"> • Respiratory: Government approved respirator. • Hand: Compatible chemical-resistant gloves. • Eye: Chemical safety goggles.
Section 9. Physical Data	
Appearance	Yellow powder
Molecular Weight	228.29
Melting	280-285
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#:	JP1355000
Route of exposure	<ul style="list-style-type: none"> • Skin Contact: May cause skin irritation. • Skin Absorption: May be harmful if absorbed through the skin. • Eye Contact: May cause eye irritation. • Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract. • Ingestion: May be fatal if swallowed.
Toxicity data	<ul style="list-style-type: none"> • Mouse, Oral or Subcutaneous, LD50=25 mg/kg ; source: Antibiotics and Chemotherapy Vol. 2, Pg. 357, 1952
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	
DOT	<ul style="list-style-type: none"> • Proper Shipping Name: Toxic solids, organic, n.o.s. UN#: 2811 • Class: 6.1 • Packing Group: Packing Group II • Hazard Label: Toxic substances. • PIH: Not PIH
IATA	<ul style="list-style-type: none"> • Proper Shipping Name: Toxic solid, organic, n.o.s. • IATA UN Number: 2811 • Hazard Class: 6.1 • Packing Group: II
Section 15-Regulatory Information	
US CLASSIFICATION AND LABEL TEXT	<ul style="list-style-type: none"> • Indication of Danger: Highly Toxic (USA) Very Toxic (EU). Risk Statements: Very toxic if swallowed. • Safety Statements: In case of accident or if you feel unwell, • seek medical advice immediately (show the label where possible).
UNITED STATES REGULATORY	INFORMATION SARA LISTED: No
EU ADDITIONAL CLASSIFICATION	<ul style="list-style-type: none"> • Symbol of Danger: T+ • Indication of Danger: Very toxic. • Risk Statements: R: 28: Very toxic if swallowed. • Safety Statements: S: 45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Section 16 -Other Information	
Disclaimer	For R&D use only. Not for drug, household or other uses
Warranty	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.