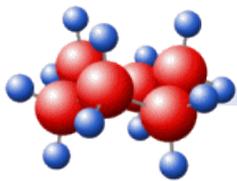
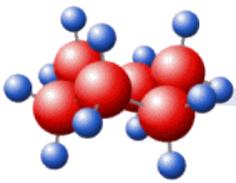


MSDS- Material Safety Data Sheet for: Cyclopamine

<i>Section 1. Product and Company Information</i>	
Company identification	<div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 5px; width: 45%;"> <p>Fermentek ltd, Yatziv 4 st, Atarot industrial zone, Jerusalem Israel 97800. POB 47120</p> </div> <div style="border: 1px solid black; padding: 5px; width: 45%;"> <p>Tel. +97225853953 Fax.+97225853943 Fermentek@fermentek.com http://fermentek.com</p> </div> </div>
Name	Cyclopamine
CAS Number:	4449-51-8
Catalog Code:	CY
Synonyms	11-deoxojervine
<i>Section 2. Composition/Information on Ingredient</i>	
EINECS/ELINCS	Not listed
Chemical Formula:	C ₂₇ H ₄₁ NO ₂
Chemical Class:	Natural teratogen. Veratrum Alkaloide
RTECS	GY0750000
TSCA	Not listed
<i>Section 3. Hazards Identification</i>	
EMERGENCY OVERVIEW	RTECS substance category: Reproductive effector, Natural product
Hazard Description	Exposure may cause irritation to eyes, mucous membranes, upper respiratory tract and skin. Exposure may also cause the following: effect fertility and/or new-born and breastfed infants. May cause birth defects (based on animal data)
HMIS RATING	HEALTH: 1; FLAMMABILITY: 0; REACTIVITY: 0
NFPA RATING	HEALTH: 1; FLAMMABILITY: 0; REACTIVITY: 0
<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 unconscious, rinse mouth with water Call physician or poison control immediately. Provide chemical label and MSDS information if possible. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
Aggravating conditions	Repeated or prolonged exposure is not known to aggravate medical condition.
<i>Section 5. Fire and Explosion Data</i>	
Flammability	May be combustible at high temperature.
Flash Point	Not Available
Combustion Products	CO, CO ₂ , nitric oxides
Extinguishing Media	Carbon Dioxide, Dry chemical powder, polymer foam, water spray
Special	Use self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.



Firefighting Procedures	
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. Avoid contact with skin, eyes and clothing; material may be an irritant
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 solid.
Molecular Weight	411.62
Melting	212-215 °C
Solubility	Organic solvents: soluble in ethanol (to 20 mg/mL by warming), methanol (7 mg/mL), and DMSO (4 mg/mL) Water: none
Section 10. Stability and Reactivity Data	
Stability	This material is stable if stored as directed
Avoid	Avoid Excess heat, strong oxidizers
Incompatibles	NA
Hazardous polymerization	Will not occur
Section 11 - Toxicological Information	
RTECS#:	GY0750000
CHRONIC EXPOSURE	TERATOGEN Laboratory experiments have shown teratogenic effects.
Toxicity data	Mouse, Oral LDLo(Lowest lethal Dose)=180mg/kg Source: Proceedings of the Society for Experimental Biology and Medicine. Vol. 149, Pg. 302, 1975.
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	Non-Hazardous for transport: this substance is considered to be non-hazardous for transport Small quantities exemption applies



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MSDS- Material Safety Data Sheet: Cyclopropylamine

IATA	this substance is considered to be non-hazardous for transport
Section 15-Regulatory Information	
EU additional classification	EU Risk And Safety phrases: S22: Do not breathe dust S24/25: Avoid contact with skin and eyes S36/37/39: Wear suitable protective clothing, gloves and eye/face protection R62: Possible risk of impaired fertility R63: Possible risk of harm to the unborn child R68: Possible risks of irreversible effects
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.

