MSDS- Material Safety Data Sheet for: Neosolaniol

Section 1. Product and Company Information

Company idendification	Fermentek Ltd Yatziv 4 street, / (POB 47120) Jerusalem 97800 Israel	Telephone: +972 2 5853953 Fax: +972 2 5853943 Email:fermentek@fermentek.com WEB: fermentek.com

Name:	Neosolaniol
CAS Number:	36519-25-2 Attention: also listed under CAS number 65041-92-1
Catalog Code:	
Synonyms	8-Hydroxydiacetoxyscirpenol Trichothec-9-ene-3-alpha,4-beta,8-alpha,15-tetrol, 12,13-epoxy-, 4,15-diacetate

Section 2. Composition/Information on Ingredient

Chemical Formula:	C19H26O8
Chemical Class:	Trichocene toxin
RTECS	YD0080000

Section 3. Hazards Identification

EMERGENCY OVERVIEW	Highly Toxic (USA) Very Toxic (EU). Highly toxic by inhalation, in contact with skin and if swallowed. Irritating to eyes and skin. Potential Health Effects Inhalation May be fatal if inhaled. May cause respiratory tract irritation. Skin May cause skin irritation. May be fatal if absorbed through skin. Eyes May cause eye irritation. Ingestion May be fatal if swallowed.
HMIS / 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, CO2
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	Slight yellow powder
Molecular Weight	382.4
Melting	176 - 178ºC
Solubility	Soluble in moderately polar solvents, such as chloroform, diethyl ether, ethyl acetate, and acetone
	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#:	YD0080000
Route of exposure	Skin Contact: skin irritation. Skin Absorption: May be fatal if absorbed through skin. Eye Contact: Causes severe eye irritation. Inhalation: Material may be irritating to mucous membranes andupper respiratory tract. May be fatal if inhaled. Ingestion: May be fatal if swallowed.
Target organ(s) or system(s)	• Thymus • Bone marrow • Spleen • Blood • Nerves
Signs and sympromps of exposure	• Nausea • headache • Vomiting • Chills • Vertigo • Visual disturbances.
Toxity	Chicken; Oral; LD50=24.87 mg/kg; effects: Gastrointest.: hypermotility, diarrhea behav.: muscle weakness; food intake; source: Applied and environ. Microbial. Vol. 35, pg. 636, 1978. Mouse;Intra-perit.;LD50=14.5 mg/kg;; source: Jap. journal of experim. med. Vol. 42, pg. 187, 1972. Mouse; Sub-cut.;LD50=9.7 mg/kg;; source: Toxicon. Vol. 24, pg. 985, 1986.
Chronic exposure	There is inadequate evidence for carcinogenicity in humans. Not classifiable as carcinogene (Source: IARC, OSHA)
	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	UN-Number: 2811 Class: 6.1 Packing group: I Proper shipping name: Toxic solids, organic, n.o.s. (Neosolaniol)

	Marine pollutant: No Poison Inhalation Hazard: No
IATA	UN-Number: 2811 Class: 6.1 Packing group: I Proper shipping name: Toxic solid, organic n.o.s. (Neosolaniol)
	## *Section 15-Regulatory Information*
US classification and label text	OSHA Hazards Highly toxic by inhalation, Highly toxic by ingestion, Highly toxic by skin absorption
EU additional classification	Symbol of danger: T Indication of danger: toxic. **Risk statements** R: 25 toxic if swallowed. **Safety statements** S: 36/37/39-45 : wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
	## *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.
Review	This document has been reviewed on 27-apr-2014 ; MGur