

Material Safety Data Sheet for: Aflatoxicol

Section 1. Product and Company Information

Company identification	<p><u>Fermentek</u> Ltd, <u>Yatziv 4 st, Atarot</u> industrial zone, Jerusalem Israel 97800. POB 47120</p>	<p>Tel. +97225853953 Fax. +97225853943 Fermentek@fermentek.com http://fermentek.com</p>
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Name:	Aflatoxicol Aflatoxin R0
CAS Number:	29611-03-8
Catalog Code:	AFX
Synonyms	AFLATOXICOL I NATURAL ISOMER*VACUUM DRIE D afl aflatoxicol aflatoxicolnaturalepimer ahydro-1-hydroxy-4-methoxy- cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-11(1h)-one,2,3,6a,9a-tetr [1S-(1alpha,6abeta,9abeta)]-2,3,6a,9a-tetrahydro-1-hydroxy-4-methoxycyclopenta[c]furo[3',2':4,5]furo[2,3- h][1]benzopyran-11(1H)-one aflatoxin R0, natural isomer

Section 2. Composition/Information on Ingredient

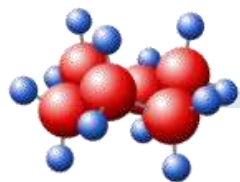
EINECS/ELINCS	EC No: 249-727-7
Chemical Formula:	C ₁₇ H ₁₄ O ₆
Chemical Class:	Benzopyran mycotoxin
RTECS	GY1934000

Section 3. Hazards Identification

EMERGENCY OVERVIEW	Highly toxic. May be fatal if inhaled, absorbed through the skin or swallowed. May cause eye and skin irritation. May cause digestive tract irritation with nausea, vomiting, and diarrhea. May cause respiratory tract irritation. May cause cancer in humans.
HMIS RATING	Health: 3 Flammability: 0 Reactivity: 0
Hazard statements	H300 Fatal if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statement(s) P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. P264 Wash hands thoroughly after handling. P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

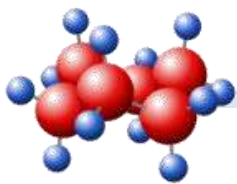
Section 4. First Aid Measures

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



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	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
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
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	Respiratory: Government approved respirator. Hand: Compatible chemical-resistant gloves. Eye: Chemical safety goggles.
	Section 9. Physical Data
Appearance	white crystalline powder
Molecular Weight	312.27
Melting	268.00 269.00 °C
Solubility	DMSO, Ethyl-acetate, Methanol, Ethanol, petrol ether. Not soluble in water
Molecular Formula	C17H14O6
	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	GY1934000
TARGET ORGAN(S) OR SYSTEM(S)	Blood. G.I. System. Lymphatic system. Immune system.
Signs and symptoms of exposure	<ul style="list-style-type: none"> • Exposure can cause: • Gastrointestinal disturbances. • Stomach • Pains, vomiting, diarrhoea.



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	<ul style="list-style-type: none">Nausea, dizziness, and headache.Anorexia.
Toxicity	Monkey, oral, LD50=2200ug/kg. Effects: Behavioral: somnolence (general depressed activity) liver: jaundice Monkey, intra-peritoneal, LD50=1300ug/kg
Carcinogenicity:	Not listed by ACGIH, IARC, NTP, or CA Prop 65.
Teratogenicity	TDLo (Oral, rat) = 380 ug/kg/68W-C; Tumorigenic - Carcinogenic by RTECS criteria, Lungs, Thorax, or Respiration - tumors
Mutagenicity	Mutation in microorganisms(Salmonella typhimurium) =700 ng/plate Mutation in microorganisms(Salmonella typhimurium)=10 ng/plate
	Section 12 - Ecological Data
Eco-toxicological 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)
IATA	Proper Shipping Name: Toxic solid, organic, n.o.s. (Aflatoxicol I natural isomer) IATA UN Number: 2811 Hazard Class: 6.1 Packing Group: II
	Section 15-Regulatory Information
US FEDERAL TSCA	for research and development use only
USA regulatory information	SARA listed: No
European/International Regulations European Labeling in Accordance with EC Directives	Hazard Symbols: T+ Risk Phrases: R 26/27/28 Very toxic by inhalation, in contact with skin and if swallowed. R 45 May cause cancer. Safety Phrases S 22 Do not breathe dust. S 24/25 Avoid contact with skin and eyes. S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S 53 Avoid exposure - obtain special instructions before use.
	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:	26.8.2014