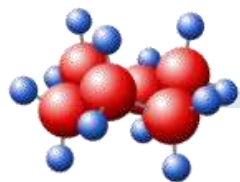


MSDS- Material Safety Data Sheet for: Withaferin-A

	<i>Section 1. Product and Company Information</i>	
Company identification	<u>Fermentek Ltd,</u> <u>Yatziv 4 st, Atarot industrial zone,</u> Jerusalem Israel 97800. POB 47120	Tel. +97225853953 Fax. +97225853943 Fermentek@fermentek.com http://fermentek.com
Name:	Withaferin A from Withania somnifera	
CAS Number:	5119-48-2	
Catalog Code:	WF	
Synonyms	Withaferin A	
	<i>Section 2. Composition/Information on Ingredient</i>	
Chemical Formula:	C28H38O6	
	<i>Section 3. Hazards Identification</i>	
EMERGENCY OVERVIEW	Possible cancer hazard Contains material which may cause cancer based on animal data. Contains material which may cause heritable genetic effects based on animal data.	
HMIS RATING	HEALTH: 0;FLAMMABILITY: 1;REACTIVITY: 0; Personal protection A	
NFPA RATING	HEALTH: 0;FLAMMABILITY: 1;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 conscious, 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, CO2	
Extinguishing Media	Carbon Dioxide, Dry chemical powder, polymer foam, water spray	
Special Fire-fighting Procedures	Use self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.	
Unusual Fire Hazards	None known	
	<i>Section 6 - Accidental Release Measures</i>	
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	
	<i>Section 7 - Handling and Storage</i>	



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	white powder
Molecular Weight	470.6
Solubility	DMSO, Ethanol
Section 10. Stability and Reactivity Data	
Stability	This material is stable if stored as directed
Conditions to Avoid	Excess heat, strong oxidizers
Hazardous polymerization	Will not occur
Section 11 - Toxicological Information	
RTECS#:	KE7288500
Toxicity data	Mouse, intraperitoneal, LD50=54mg/kg , Source : Toxicon. Vol. 8, Pg. 154, 1970.
Section 12 - Ecological Data	
Ecotoxicological Information:	The product itself and its products of degradation are not toxic.
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	NA
IATA	Not controlled under IATA.
Section 15-Regulatory Information	
USA classification and label text	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).
USA regulatory	SARA Not listed Not controlled under HCS
EU additional classification	Classification: Harmful Risk Phrases: 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.