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MSDS- Material Safety Data Sheet for: FK506

	Saction 1 Drady	ct and Compa	nu Information	
A	Section 1. Produce			
Company idendification	FERMENTEK ltd 4 Yatziv street, POB 47120		l: +972 2 5853953 x: +972 2 5853943	
lacitalitation	Jerusalem 97800,		Aail: fermentek@fermentek.com	
	Israel	-	ebsite: www.fermentek.com	
Product Name:	FK506			
Catalog Code:	FK			
Intended Uses and	For research only.			
Uses advised against	Not for drug. Not for hum	ian use.		
Synonyms	Tacrolimus			
	Molecular Weight: 804.03			
	Molecular Formula: C44H			
	Section 3. Compo	osition/Inform	ation on Ingredient	
EINECS/ELINCS	NA			
Chemical Formula:	C44H69NO12			
RTECS	KD4200000			
CAS Number:	104987-11-3			
	Molecular Weight: 804.03 Molecular Formula: C44H			
	Section 2. Hazar	· · · · · · · · · · · · · · · · · · ·		
Emergency Overview	Hazard Description: poter	it immunosuppressai	nt; may cause irritation to eyes, ski	n, mucous memoranes
	OSHA Hazards			
	Target Organ Effect, Toxic	by ingestion		
	Target Organ Immune sys			
		Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP] and GHS		
	Acute toxicity, Oral (Categ	gory 3)		-
	Classification accordi	ing to EU Directive	s 67/548/EEC or 1999/45/E	C
	Toxic if swallowed.			
	Labelling according R	Regulation (EC) No	1272/2008 [CLP] and GHS	
	Pictogram 🔀 Sign	al word Danger		
	Hazard statement			
	H301 Toxic if sw			
	Precautionary statem	• •		
	doctor/physician		nmediately call a POISON C	ENTER or
	uootoi/priysiolai			
	NFPA Rating	Health Hazard 2	Fire 0	Reactivity Hazard 0
				B
	HMIS	Health Hazard 2	- ·	Reactivity Hazard 0
	Classification		0	

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	According to European Directive 67/548/EEC as amended.		
	Se L		
	Hazard symbol(s): T-Toxique R-phrase(s)		
	R25 Toxic if swallowed.		
	S-phrase(s)		
	S45 In case of accident or if you feel unwell, seek medical advice immediately.		
	Section 3. Composition/Information on Ingredient		
Name	FK506		
EINECS/ELINCS	NA		
Chemical Formula:	C44H69NO12		
RTECS	KD4200000		
CAS Number:	104987-11-3		
	Molecular Weight: 804.03		
	Molecular Formula: C44H69NO12		
Concentration	100%		
	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, NO,NO2,		
Extinguishing Media	Carbon Dioxide, Dry chemical powder, polymer foam, water spray		
Firefighting	Use self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.		
Fire/Explosion Hazards	None known		
	Section 6 - Accidental Release Measures		
Clean-up 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		
1	complete.		

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	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 stored in a freezer, -22oC to -16oC; . It should be kept in a tightly closed container. This product should be handled only by qualified experienced professionals. Wash thoroughly after handling this material		
	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: Routinely, not required. If protection from dust is needed, type N95 (US) or type P1 (EN 143) dust masks may be used. Hand: Compatible chemical-resistant gloves. Eye: Safety glasses. Hygiene measures: General industrial hygiene practice. 		
	Section 9. Physical and Chemical Data		
Appearance	White to off white powder or solid		
Molecular Weight	804.03		
Solubility	Soluble in DMSO or methanol. 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#:	KD4200000		
Acute toxicity:	Rat, Oral, LD50=134 mg/kg		
	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.		

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	Section 14 - Transport Information			
US DOT	Proper Shipping Name:			
IATA	Toxic solids, organic, n.o.s. (FK506) UN#: 2811			
ADR/RID	Class: 6.1 Packing Group: III			
IMDG:	Marine Pollutant:			
	No			
	Poison Inhalation Hazard:			
	No			
	Technical Name:			
	Required			
	Marine Pollutant:			
	No			
	Section 15-Regulatory Information			
	15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture			
	no data available			
	15.2 Chemical Safety Assessment			
	no data available			
	OSHA Hazards			
	Target Organ Effect,			
	Toxic by ingestion.			
	Target Organ: Immune system			
	SARA 302 Component:			
	None of the ingredients are listed.			
	SARA 313 Component:			
	None of the ingredients are listed.			
	SARA 311/312 Hazards:			
	Acute Health Hazard, Chronic Health Hazard			
	California Prop. 65 Components			
	This product does not contain any chemicals known to the State of California to cause cancer, birth			
	defects, or any other reproductive harm.			
	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.			

Section 3. Composition/Information on Ingredient

EINECS/ELINCS	NA
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RTECS	KD4200000
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