

PO Box 38910 Langenhovenpark Bloemfontein 9330

Phone: +27 (0) 51 451 9053 Mobile: +27 (0) 82 203 2249 / +27 (0) 71 453 1870 Fax: +27 (0) 86 584 5659



SECTION 1	PRODUCT				
Identity:	ANNGRO® (adjuva	nt)			
Manufactur	BioPher (Pty) Ltd				
Address:	P.O. Box 38910 Langenhoven Park Bloemfontein 9330		Tel:	+ 27 (0) 51 4	151 9053
			Fax:	086 584 565	9
Web:	www.anngro.com		Email	mail@anngr	o.com
SECTION 2	Ingredie	NTS I	NFORM	MATION	
CAS No.	Significant Ingredients	g	∕ℓ or %	OSHA PEL	ACGIH TLV
-	Fatty acid ethyl esters	:	25 g/l	-	-
	Water	to	1 litre		
SECTION HAZARDS IDENTIFICATION EMERGENCY OVERVIEW: Generally regarded as safe in pharmaceutical or food sector					
Not known to cause pharmaceutical pr	se eye, skin or respiratory tract	irritation.	The ingred	dients are used in s	everal topical
Target	Possibly the liver	Eye:	N	ot an irritant, not ha	armful
Ingestion:	Unlikely to cause harm	Skin:	N	ot an irritant, not ha	armful
Inhalation:	Not harmful.	have no exposu rats. No	o genotoxio re did not r o adverse r	ory experiments sh c or mutagenic effe resutlt in adverse e reproductive effects or rats or human ce	cts. Sub-chronic ffect s in mice or s have been



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SECTION 4	FIRST AID	Measures	
Eyes:	Immediately flush eyes with	plenty of water for at least 15 minutes, occasionally lifting . If irritation develops, get medical aid.	
Skin:	No harmful effect on skin. Medical aid required only if unexpected irritation develops or persists.		
Ingestion:	Do not induce vomiting. Get medical aid if irritation or symptoms occur.		
Inhalation:	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.		
Notes to Physic	cian: Treat symptomatically a	nd supportively.	
SECTION 5	FIRE AND	EXPLOSION HAZARD DATA	
Flash Point (Met Used):	thod non-flammable	Flammable Limits: no information	
Extinguishing Mo	water spray, CO ₂ , cedia: chemical (ABC), alcohol foam	dry LEL: no information UEL: no information	
Special Fire Figh Procedures:	approved se	e conditions, wear full protective clothing and a NIOSH- elf-contained breathing apparatus. Use flooding amounts of ly stages of fire.	
Unusual Fire and Hazards:	d Explosion As with mos	of fluids containing an organic phase, fire is unlikely but belevated temperatures.	
SECTION 6	ACCIDENT	AL RELEASE MEASURES	
General:	Use proper personal protect	ive equipment as indicated in Section 8. Not harmful	
Spills/Leaks:	Dilute spill with water - flush ventilation. This liquid is not	to sewer with copious amounts of water. Provide harmful to the environment.	
SECTION 7	HANDLING	and Storage	
Handling:	Use with adequate ventilatio	on. Avoid contact with eyes. Avoid ingestion and inhalation.	
Storage:	Do not store in direct sunligh Store at ambient temperatur	nt. Store in a tightly closed container. Store in a dry area. re. Keep container closed when not in use.	
SECTION 8		RE CONTROLS, PERSONAL PROTECTION	
Engineering Controls:	A safety shower is no	ot required. Use adequate ventilation.	



RTECS#:

BioPher (Pty) Ltd 5 Ednau Small Holdings Abrahamskraal Road Mooiwater

Bloemfontein, 9338 Republic of South Africa

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Exposure Limits	Mixture: ANNGRO TM	ACGIH	NIOSH	OSHA - Final PELs	
		none listed	none listed	none listed	
OSHA Vacated PELs:	No OSHA Vacated F	No OSHA Vacated PELs are listed for this mixture.			
Personal Prof	tective Equipment:				
Eyes:		Although not required, appropriate protective eyeglasses may be worn as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.			
Skin:	No gloves are nec	essary.			
Clothing:	No specific safety	No specific safety wear is required.			
Respirators:	No respiratory prot	No respiratory protection program is required.			
Other Precautions:	Wash after handlin	Wash after handling. Use with adequate ventilation. Avoid ingestion of large volumes.			
Vapor Pressur Vapor Density Viscosity: Solubility: Specific Gravit Ventilation (Ge	: Not Not Not Wat ty/Density: 0.99	available available available insoluble er soluble) g/cm ³ @ 20 °C e local or general	pH: Evaporation Rate: Boiling Point: Freezing Point: Molecular Weight: Eye Protection:	4.5-7.0 Not available 90-100 °C @ 1mmHg 2.5 - 3.5 deg C Not applicable None required.	
Work / Hygieni	, exnaust.	Wash thoroughly			
Other Protective Equipment:		None required.	arter Hariding.		
SECTION 10 Chemical Sta	ST.		REACTIVITY mperature and pressure	es. Air sensitive. Light	
Conditions to	sensitive.			excessive heat	
		<u> </u>			
	olymerization: W	ill not occur.			
Hazardous De Products:	ecomposition No	one			
SECTIO	N Tox	KICOLOGICAL ÎN	IFORMATION		



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CAS#	A mixture; no single CAS#
LD50/LC50:	> 4 390 mg/kg
Carcinogenicity:	Not carcinogenic according to AEMES testing. Not listed by ACGIH, IARC, NTP, or CA Prop 65
Epidemiology:	No information found
Teratogenicity:	Not teratogenic effects in experimental animals (mice/rats).
Reproductive Effects:	No adverse reproductive effects have occurred in experimental animals.
Mutagenicity:	No mutagenic effects have occurred in experimental animals and not mutagenic according to AEMES test.
Neurotoxicity:	No information found
Other Studies:	

SECTION 12	ECOLOGICAL INFORMATION
Ecotoxicity:	The toxicological properties of this material, in terms of the environment, have not fully been investigated. No formal or hard data are available but it is unlikely to be ecotoxic.
Environmental:	Expected to be environmentally friendly, including fish and bees, based on ingredients but no formal data available.
Physical:	No information available.
Other:	Can be emptied into drains

SECTION 13

DISPOSAL CONSIDERATIONS

The ingredients of the products are not listed amongst chemicals classified for disposal of hazardous waste. 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.

RCRA P-Series: None listed. **RCRA U-Series:** None listed.

Other:

SECTION TRANSPORT INFORMATION 14 **Shipping Name: Hazard Class:** Not regulated as Hazardous Non-dangerous goods Non-dangerous, therefore **UN Number:** no UN number N1 **Packing Group:**



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SECTION 15	ACCIDENTAL RELEASE MEASURES
US Federal	Not listed on the US Federal inventory.
TSCA	Not listed on the TSCA inventory.
Health & Safety	None of the ingredients /chemicals are on the Health & Safety Reporting
Chemical Test Rules	None of the chemicals in this product are under a Chemical Test Rule.
Section 12b	None of the chemicals are listed under TSCA Section 12b.
TSCA Significant New Use Rule	None of the chemicals in this material have a SNUR under TSCA.
CERCLA Hazardous Substances and corresponding RQs	None of the chemicals in this material have an RQ.
SARA Section 302 Extremely Hazardous Substances	None of the chemicals in this product have a TPQ.
Section 313	No chemicals are reportable under Section 313.
Clean Air Act:	This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.
Clean Water Act:	None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.
OSHA:	None of the chemicals in this product are considered highly hazardous by OSHA.
STATE	Not present on state lists from CA, PA, MN, MA, FL, or NJ.
California Prop 65	California No Significant Risk Level: None of the chemicals in this product are listed.
European/International Regulations European Labeling in Accordance with EC Directives Hazard Symbols:	Not available.
Risk Phrases:	
Safety Phrases:	S 24/25 Avoid contact with skin and eyes.
WGK (Water Danger/Protection)	
Canada - DSL/NDSL	Not listed on Canada's DSL List.
Canada - WHMIS	This product has a WHMIS classification of Not Controlled This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.



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SECTION

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ADDITIONAL INFORMATION

MSDS Creation Date: 9/02/2007 **Revision #2 Date:** 13/11/2009 **Revision #3 Date:** 15/03/2012 **Revision #4 Date:** 16/04/2014 **Revision #5 Date:** 30/03/2015 **Revision #6 Date**: 17/07/2015

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