



PineAqua

SAFETY DATA SHEET: PINE EXTVOLAT

01.01.2020

GENERAL PARAMETERS

Product:	Pine Extvolat
INCI name:	Pinus Sylvestris Trunk Extract
Botanical name:	Pinus
Used part:	Tree trunk
Contents:	Does not contain banned components
Application:	Raw materials for cosmetic products
Manufacturer:	PineAqua® Ltd.

PHYSICAL, CHEMICAL AND ORGANOLEPTIC TESTS

No.	Tested parameters	Test results	Hygienic standard	Measurement units	Regulatory documents on test methods
1	Appearance	Corresponds	Transparent liquid		GOST 29188.0
2	Color	N color	peculiar to such products		
3	Smell	Weak, wooden			
4	Hydrogen ion concentration	4.5	1.2-8.5	pH	GOST 29182
5	Volume fraction of ethyl alcohol	0.02	0-90.0	volume %	GOST 29188.6
6	Weight content:				
	Lead	<0.05	no more than 5.0	mg/kg	GOST 26932
	Arsenic	<0.05	no more than 5.0		GOST 26930
	Mercury	<0.01	no more than 1.0		GOST 26927

CONCLUSION: According to the test program preliminary samples meet the requirements of Sanitary Rules and Regulations (SanPiN) 1.2.681-97.



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MICROBIOLOGICAL TESTS

The name of indicators	Units of measure	Test assessment reference	Characteristic and norm according to company standard	Acceptable measurement error	Assays results
Physical and chemical indicators:					
Hydrogen indicator	Unit PH	GOST 29188.2 - 2014	1,2-8,5	+/- 0,1	4,5
Safety indicators:					
Microbiological indicators: The total number of mesophilic aerobic and facultative anaerobic microorganisms	CFU / g	GOST ISO 21149-2013	No more than 10 ³	-	Less than 1 x 10 ³
Candida Albicans	-	GOST ISO 18416 - 2013	0.1 g not allowed	-	Not indicated
Escherichia coli	-	GOST ISO 21115 - 2013	0.1 g not allowed	-	Not indicated
Staphylococcus aureus	-	GOST ISO 22718 - 2013	0.1 g not allowed	-	Not indicated
Pseudomonas aeruginosa	-	GOST ISO 22717 - 2013	0.1 g not allowed	-	Not indicated
Toxic elements: Lead Arsenic Mercury	Mg / kg	GOST 32937 - 2014 GOST 32938 - 2014 GOST 33022 - 2014	No more than 5,0 No more than 5,0 No more than 1,0	- - -	Less than 0,20 Less than 0,04 Less than 0,05

CONCLUSION: According to the test program microbiological parameters of the presented samples meet the safety requirements to perfumery and cosmetic products

TOXICOLOGICAL AND HYGIENIC TESTS

No.	Tested parameters	Test results	Hygienic standard	Measurement units	Regulatory documents on test methods	Changes, reliability %
1	Acute toxicity in case of coetaneous applications	DL ₅₀ > 2500	4 class according to GOST 12.1.007-76	mg/kg	05 RC/3140	
2	Acute toxicity in case of swallowing	DL ₅₀ > 5000	4 class according to GOST 12.1.007-76	mg/kg		
3	Skin irritation	0	0	points		
4	Skin resorption	no	no			
5	Sensibilization	no	no			MU 1.1.578-96

CONCLUSION: The products belong to the IV class of hazard (low-hazard substances) according to GOST 12.1.007-76. No sensibilization effect was found. Safety parameters of the provided products meet the requirements of SanPiN 1.2.681-97 provided that recommendations concerning products application are observed.



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SKIN IRRITATION AND SENSIBILIZATION EFFECT

Parameter	Meaning of results		Regulatory documents on test methods
	Initial state, standard	Test results	
1. Drip test: weak hyperemia edema singular vesicular eruptions	Normal skin	no	Guidance manual on testing perfumery and cosmetic products
2. Compression test: weak hyperemia edema singular vesicular eruptions		no	
		no	
		no	
		no	
Sensibilization	Normal skin	no	

CONCLUSION: Clinical tests were done on volunteers (aged from 18 to 45 years) by application to the inside part of forearm. Clinical inspection results did not reveal any pathological skin reaction to the tested cosmetic products. All skin tests were negative. Functional skin parameters were within normal physiological range. Safety parameters of the presented products meet the requirements of regulatory documents.

FINAL CONCLUSION: Analysis of the formulation of the submitted products has shown that they do not contain banned substances according to SanPiN 1.2.676-97 and Regulations on cosmetic products, approved by EEC. On the basis of experiments and clinical trials it was established that microbiological, toxicological, clinical, physical and chemical parameters of the presented samples of raw materials for cosmetic products meet the requirements of SanPiN 1.2.676-97 and GOST R 51578-2000 (Decision of the Chief Sanitary Inspector of the Russian Federation No. 26 dated November 20, 1997) and they are safe for health provided that their application rules are observed.