

Argan-O-Cides are a line of 100% active, paraben-free, formaldehyde-free, broad spectrum anti-microbials for cosmetics and personal care products.

These preservatives are equally suitable for rinse-off and leave-on applications. They are stable over a broad pH range and are compatible with most cosmetic ingredients.

Great for use in:

• Emulsion systems

Make-up
Hair Care
Skin Care
Body Care

• Aqueous systems

Toners
Cleansing Products
Leave-On and Rinse-Off Products

• Silicone Systems

FORMULATION GUIDELINES

Addition
Temperature
pH Range
Limit Exposure to Light

Water phase or post-emulsification
< 45°C (Do not overheat)
4 – 10

EFFICACY

Microbiological Assay (Performed @ pH 6.5)

Microorganisms	Product Concentration (%)										MIC
	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	
E. coli	+	-	-	-	-	-	-	-	-	-	0.2
S. aureus	+	-	-	-	-	-	-	-	-	-	0.2
Ent. cloacae	+	-	-	-	-	-	-	-	-	-	0.2
Kl. pneumoniae	+	-	-	-	-	-	-	-	-	-	0.2
Ps. aeruginosa	+	+	-	-	-	-	-	-	-	-	0.3
B. cepacia	+	+	-	-	-	-	-	-	-	-	0.3
Ps. fluorescens	+	+	-	-	-	-	-	-	-	-	0.3
Ps. putida	+	+	+	-	-	-	-	-	-	-	0.4
C. albicans	+	-	-	-	-	-	-	-	-	-	0.2
A. niger	+	-	-	-	-	-	-	-	-	-	0.2

Growth is indicated By (+)
Inhibition of Growth is Indicated By (-)

GRADES	COMPOSITION	FORM	DOSAGE (%)	pH RANGE	P.a.	S.a.	C.a.	A.n.	APPLICATION				
									SKIN CARE	HAIR CARE	ORAL CARE	COLOR COSMETICS	APIDEO
Argan-O-Cide ABC	Aqua, Triethylene Glycol, Caprylyl Glycol, Benzalkonium Chloride, Ethyl Lauroyl Arginate HCL	liquid	0.1 to 0.5	4 to 8	0.4	0.00 2	0.06 4	0.12 8	X	X		X	X
Argan-O-Cide ABR	Aqua, Triethylene Glycol, Caprylyl Glycol, Cetrimonium Bromide, Ethyl Lauroyl Arginate HCL	liquid	0.1 to 0.5	4 to 8	0.5	0.00 4	0.12 8	0.06 4	X	X		X	X
Argan-O-Cide ACC	Aqua, Triethylene Glycol, Caprylyl Glycol, Cetylpyridinium Chloride, Ethyl Lauroyl Arginate HCL	liquid	0.1 to 0.5	4 to 8	0.4	0.00 2	0.06 4	0.06 4	X	X		X	X
Argan-O-Cide LB1	Benzoic Acid, Sorbic Acid, Dehydroacetic Acid, Benzyl Alcohol	liquid	0.5 to 1.0	2 to 6.5	0.25	0.17 5	0.09	0.02 3	X	X			
Argan-O-Cide LB2	Dehydroacetic Acid, Benzoic Acid, Benzyl Alcohol	liquid	0.5 to 1.0	2 To 6.5	0.2	0.15	0.13	0.3	X	X			
Argan-O-Cide LB3	Dehydroacetic Acid, Benzoic Acid, Phenoxyethanol	liquid	0.5 to 1.0	2 to 6.5	0.25	0.25	0.8	0.25	X	X			
Argan-O-Cide LB4	Benzoic Acid, Sorbic Acid, Dehydroacetic Acid, Caprylyl Glycol, Benzyl Alcohol	liquid	0.5 to 1.0	2 to 6.5	0.25	0.12 5	0.09	0.3	X	X			
Argan-O-Cide LB6	Dehydroacetic Acid, Sorbic Acid, Benzoic Acid, Phenoxyethanol	liquid	0.5 to 1.0	2 to 6.5	0.35	0.12	0.16	0.15	X	X			
Argan-O-Cide PEH	Phenoxyethanol, Ethylhexylglycerin	liquid	0.5 to 1.0	3 to 9	0.4	0.4	0.25	0.25	X	X		X	X
Argan-O-Cide SC NA	Sodium Salicylate	powder	0.2 to 0.5	2 to 6.5	0.25	0.12 5	0.25	0.25	X	X		X	
Argan-O-Cide SP	Propanediol, Salix Alba (Willow) Bark Extract	liquid	0.4 to 1.0	3 to 8	0.12 5	0.12 5	0.5	0.5	X	X			
Argan-O-Cide TP	Phenoxyethanol, Triethylene Glycol	liquid	0.4 to 1.0	3 to 13	0.22	0.47	0.32	0.23	X	X			
Argan-O-Cide BA	Benzyl Alcohol	liquid	0.4 to 1.0	3 to 8.5	0.35	0.65	0.5	0.32	X	X	X		X
Argan-O-Cide PE	Phenoxyethanol	liquid	0.4 to 1.0	3 to 8.5	0.55	0.7	0.45	0.3	X	X			X

The information provided is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

February 12, 2019 rev