

Formula Name : "KOI" Oil Infusion Color Drop

Lot.No.27-FPB-9

(NIKKOL Purephos Alpha: 1.4%)


<https://www.chemical-navi.com/>

INCI NAME	TRADE NAME	ROLE/FEATURE	SUPPLIER	wt%
A				
Cetyl Phosphate	NIKKOL Purephos Alpha	Emulsifier	NIKKO CHEMICALS	1.4000
Glyceryl Stearate	NIKKOL MGS-BV2	Emulsifier	NIKKO CHEMICALS	0.5000
Cetyl Alcohol		Viscosity modifier, Stabilizer		0.2500
Macadamia Integrifolia Seed Oil, Macadamia Ternifolia Seed Oil	NIKKOL Macadamia Nut Oil	Emollient agent	NIKKO CHEMICALS	15.0000
Gevuina Avellana Seed Oil	NIKKOL Hazel Nut Oil	Emollient agent	NIKKO CHEMICALS	10.0000
Camelina Sativa Seed Oil	NIKKOL Golden Camelina Oil	Emollient agent	NIKKO CHEMICALS	5.0000
Haematococcus Pluvialis Extract, Macadamia Ternifolia Seed Oil		Anti-aging		1.0000
Dimethicone	SILICONE HL-88	Texturizer	NIKKO CHEMICALS	2.0000
Tocopherol		Antioxidant		0.0500
B				
Xanthan Gum, Water	(2% aq.)	Thickener		15.0000
Glycerin		Moisturizer		2.5000
HDI/Trimethylol Hexyllactone Crosspolymer, Polymethylsilsesquioxane	US-450	Functional powder	Toshiki Pigment	3.0000
Disodium EDTA		Chelating agent		0.1000
Arginine		Neutralizer		0.8500
Phenoxyethanol		Antimicrobial agent		0.4000
Water				17.9500
C				
Aluminum Hydroxide, Titanium Dioxide	MP-1133	Inorganic pigment	TAYCA	12.0000
Iron Oxides	TAROX Iron oxide LL-100P	Inorganic pigment	Titan Kogyo	1.4000
Iron Oxides	TAROX Iron oxide R-516P	Inorganic pigment	Titan Kogyo	0.4000
Iron Oxides	TAROX Iron oxide BL-100P	Inorganic pigment	Titan Kogyo	0.2000
Propanediol		Moisturizer		5.0000
PPG-24-Glycereth-24	NIKKOL SG-G2424	Moisturizer, Penetrant	NIKKO CHEMICALS	2.5000
Trilaureth-4 Phosphate	NIKKOL TLP-4	Dispersant	NIKKO CHEMICALS	0.5000
D				
Butylene Glycol, Water, Angelica Acutiloba Root Extract	JAPANESE ANGELICA ROOT EXTRACT BG-J	Brightening	Maruzen Pharmaceuticals	1.0000
Melissa Officinalis Leaf Extract, Butylene Glycol, Water	LEMON BALM EXTRACT RA	Anti-wrinkle, Anti-aging	Maruzen Pharmaceuticals	1.0000
Water				1.0000
			Total	100.0000
Procedure				
1. Grind C by triple-roll mill and make it uniform.				
2. Heat A and B to 80°C separately and mix until uniform.				
3. While stirring B by homogenizer, add C into B and mix until uniform.				
4. While stirring B+C by homogenizer, add A into B+C gradually and emulsify at 80°C for a certain period of time.				
5. Cool down to 35°C while stirring, then add D into A+B+C and mix until uniform.				
Physical Properties		Stability		
Initial viscosity (B type Viscometer, No.4 6rpm, 30sec.): 13500 mPa · s		· RT, 45°C, 5°C: Confirmed for 3 months		
pH (bulk): 7.9		· 50°C, -5°C, Cycle (-5⇄45°C): Confirmed for 1 month		

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We do not guarantee the stability of the final products of formulations in this brochure though the stability was checked under certain conditions.

We do not guarantee the preservation property of this formulation as we have not checked it.

We do not guarantee that this formulation does not conflict with any patent.

It is users' responsibility to determine the suitability for their own use of the formulation.