



CBD Oil Balance

Take control of oily skin.

Therapeutic effects of CBD.
One solution for oily skin and scalp.

Formulation Guidelines



LIPID CARRIERS NLC



Formulation Basic Data

0 Product Code:	EC0002
0 Product Name:	CBD Oil Balance.
0 Product Technology:	eCapsules® Technology.
0 INCI:	WATER (AQUA), GLYCERIN, CAPRYLIC/CAPRIC TRIGLYCERIDE, GLYCERYL BEHENATE, CANNABIS SATIVA SEED OIL, LECITHIN, THEOBROMA CACAO (COCOA) SEED BUTTER, XANTHAN GUM, CANNABIDIOL. Additives: BENZYL ALCOHOL, GLYCERYL CAPRYLATE, GLYCERYL UNDECYLENATE.
0 Product Claims (*):	Sebum Control. Anti-inflammatory. Microbiota-Balancing.
0 Recommended Dosage:	2%
0 Product Form:	White yellow to pale yellow viscous suspension.

Formulation Guidelines

FORMULATION ADVICE	Application Areas:	Scalp Care, Skin Care, Seborrheic Dermatitis, Sensitive Skin.
	Solubility:	CBD Oil Balance is dispersible in water only at the recommended dosage and/or partially dispersible in glycerin and propylene glycol. The product can affect the clarity/ transparency of the water and may provide a slight turbidity (white cloudiness) if clear formulations are desired. Insoluble in oil.
	Processing Temperature:	CBD Oil Balance does not tolerate well temperatures above 60°C (140°F). It is best to incorporate at temperatures < 50°C (122°F) for optimal results. If the formulation requires the use of higher temperature, the system can be incorporated up to 65°C (149°F) for limited periods of time.
	Recommended pH:	CBD Oil Balance is extremely sensitive to very low and alkaline pH. pH higher than 8 can induce CBD oxidation therefore it is extremely important to keep the pH stable within its optimal range. The recommended pH range to work with is between 4.2 - 7.5.
	Mode of Incorporation:	CBD Oil Balance and its mode of incorporation is very simple and can be added in a variety of personal care formulations. The general recommendation is to add it into the aqueous phase of the cosmetic formulation. In addition, it can be introduced during post-emulsification or at the end of the manufacturing process.
	Stirring Equipment:	Product is compatible with conventional blade stirrers. If possible, avoid the use of rotor-stator type homogenizers directly with the product as this may decrease the particle size and disrupt the capsule.
FORMULATION TYPE	Aqueous Systems: Gels, Serum-Type, Low Viscosity, Fluid-Type	CBD Oil Balance is easily incorporated into the aqueous phase of cosmetic formulations (i.e. aqueous gels, O/W, W/O). The product gives a white, translucent appearance when dispersed in water. It is suitable to use for aqueous serum-type formulations and/or low viscous formulations. For very fluid formulations (mists, toners), it is important to consider a strong solubilizing agent to ensure good stability. The product should be dispersed first in water, then followed with solubilizing agent for optimal results. The addition of a stabilizing agent or rheology modifier is also highly recommended to avoid sedimentation with time. It is advisable to keep the final pH of the fluid formulation neutral. CBD Oil Balance does not alter the viscosity of the cosmetic formulation.
	Emulsion Systems: O/W, W/O, Si/W	CBD Oil Balance can be added in aqueous phase (pre-emulsification) of any emulsion system, considering it is processed cold or the temperature does not exceed 50°C (122°F). If heat is required, it is then recommended to add in the cooling phase of an O/W emulsion (post-emulsification) under blade stirrer. In W/O emulsion, it is important to avoid the use of monovalent or divalent ions (e.g. NaCl, MgSO ₄) if dispersing the product in the water phase as this can lead to particle aggregation. If adding post-emulsification in W/O, it is suggested to pre-disperse the product in water first with appropriate solubilizer and add directly to the cosmetic formulation without over-shearing.
	Anhydrous Systems: Powder Only Formulations	CBD Oil Balance is not suitable for powder formulations.
	Anhydrous Systems: Oily Formulations	CBD Oil Balance is not suitable for complete oily formulations.
	Anhydrous Systems: Waterless Formulations	A pre-dispersion of CBD Oil Balance into glycerin or glycol phase is possible. It is recommended to add it to the aqueous medium of the waterless formulation, if any.
Anhydrous Systems: Solid Formulations	For solid systems (e.g. hot pour applications), it is possible to add the product before the congealing point at temperatures above 50°C (avoid >65°C) and cool down slowly to ensure complete homogeneity.	
Rinse Off Systems: Cleansing Formulations	CBD Oil Balance can be used in rinse off applications for skincare and scalp/hair care. It is best to avoid the use of very strong anionic and cationic surfactants in cleansing formulations as these compounds can destabilize the product and produce particle aggregation. It is advisable to opt for mild cleansing agents when formulating cleansing products. CBD Oil Balance can be added in the aqueous phase at the beginning of the process or at the end of the formulation when pH is adjusted to the recommended working pH range. It is important to consider the addition of a stabilizer if the cleansing formulation is very fluid-like. The transparency and clarity of the cleansing formulation may be impacted.	

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COMPATIBILITY	Anionic Polysaccharides:	CBD Oil Balance is compatible with Anionic Polysaccharides such as Xanthan Gum, Cellulose Gum, Acrylic Polymers, Carbomers, etc.
	Nonionic Polysaccharides:	CBD Oil Balance is compatible with Nonionic Polysaccharides such as Hydroxyethylcellulose, etc.
	Amphoteric Surfactants:	CBD Oil Balance is compatible with Amphoteric Surfactants such as Betaines, Alkyl Amphoacetates, etc.
	Anionic Surfactants:	CBD Oil Balance is compatible with most Anionic Surfactants such as Sulfosuccinates, Carboxylates, Glycinates, Glutamates, other Sulfates, Taurates, etc.
	Non Ionic Surfactants:	CBD Oil Balance can be used with Non Ionic Surfactants such as Alkyl Polyglucosides, Ethoxylated Sorbitan Esters, etc.
	Preservatives:	CBD Oil Balance is compatible with various preservatives such as Phenoxyethanol, Dermosoft™ LP, Dermosoft™ 1388, Ethylhexylglycerin, Caprylyl Glycol, etc.
	Organic Acids:	Compatible with all kind of organic acids.
	Denatured Alcohol:	CBD Oil Balance is compatible with denatured alcohol and maintains its stability with up to 50%.
	Chelating Agents:	CBD Oil Balance can be used with chelating agents such as Disodium EDTA, Tetrasodium Glutamate Diacetate, Sodium Phytate, Sodium Gluconate, etc.
	Oil Phase:	Compatible with all kinds of oil phases.
Other Compatibilities:	CBD Oil Balance can be used with emulsifiers, glycols, ethoxylated, emollients, Sodium Hyaluronate, pigments, sunscreens (chemical and mineral).	
INCOMPATIBILITY	Electrolytes:	CBD Oil Balance is not compatible with Monovalent Electrolytes such as NaCl and divalent electrolytes such as MgSO ₄ . It is not compatible with aluminium salts.
	Cationic Ingredients:	CBD Oil Balance is not compatible with Cationic Ingredients . Ingredients such as Quaternium compounds or Cationic conditioning agents such as Behentrimonium Chloride and others should be avoided.
	Anionic Polysaccharides:	CBD Oil Balance is not compatible with some Anionic Polysaccharides such as Fuocert® and may present visible particle aggregation.
	Acidic Ingredients:	CBD Oil Balance cannot be used with some Acidic Ingredients where the pH is required to be <4.2. It is not compatible with Gluconolactone.

(*) Cosmetic claims are under tension and are constantly being examined in the light of the Common Criteria with which they must comply in order to be used. The listed claims are not subjected to legal framework nor a list of authorized claims to end cosmetic products and they are only provided as a reference.

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