

🌿 BioMade Hempseed Oil Emollients

A range of unique naturally derived esters and polyesters derived from plant-based sources

Hemp Seed Oil – Cannabis Sativa Seed Oil

- ❖ Rich source of polynutrients
- ❖ High levels of Omega 3 & 6 essential fatty acids
 - ❖ Moisturizer mimics natural skin barrier
- ❖ Dry natural oil that absorbs quickly into skin
 - ❖ Conditions and rejuvenates hair texture
 - ❖ Sustainable, biodegradable



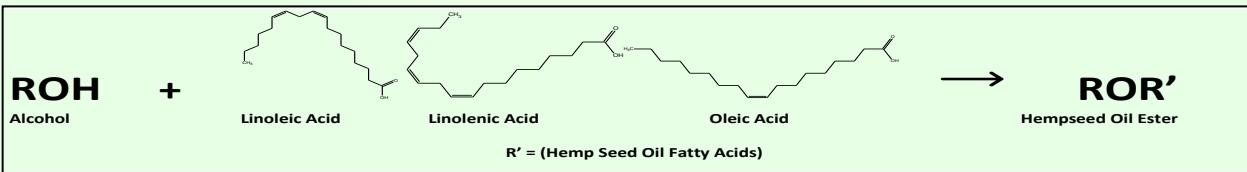
BioMade Hempseed Oil Derivatives

- ✓ outstanding emolliency and lubricity
- ✓ alternatives to petroleum & synthetic ingredients
- ✓ compatibility with CBD and other natural oils
- ✓ less prone to oxidation vs. standard hempseed oil
- ✓ 99.9% to 100% naturally derived
- ✓ enhanced sheen and luster
- ✓ organic & mineral sunscreens usage
- ✓ skin, sun, hair, color, toiletry, nail applications

Trade Name	INCI Name/Appearance	Description
BioMade C-HS	INCI: Capryl Cannabis Seedate Appearance: clear amber liquid	light and fast absorbing emollient that aids in a spreading with a dry, non-oily finish
BioMade IS-HS	INCI: Isostearyl Cannabis Seedate Appearance: clear slightly viscous golden liquid	medium viscosity ester that spreads easily; provides cushioning to formulations with similar texture as hempseed oil
BioMade SA-HS	INCI: Stearyl Cannabis Seedate Appearance: soft yellow waxy paste	39°C melt point butter-like consistency achieved without hydrogenation; provides structure to emulsions & anhydrous formulas
BioMade BA-HS	INCI: Behenyl Cannabis Seedate Appearance: waxy greenish solid	55°C melt point solid; adds body and texture in emulsions and structure in sticks; naturally-derived alternative to synthetic waxes
BioMade HS-DD	INCI: Cannabis Seed Oil Dimer Dilinoleyl Esters/Dimer Dilinoleate Copolymer Appearance: clear viscous amber liquid	polyester emollient and film former; provides outstanding adhesion and shine; excellent water-retention on skin, lips & hair; effective pigment-wetter

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CHEMICAL STRUCTURE



BIOMADE FORMULARY

AG1-34: Natural Hemp Ester Cream proposed

Ingredient	INCI	W/W%
Phase A		
DI Water	Water	63.7
Glycerin	Glycerin	3
Dermol CG	Caprylyl glycol	0.3
Gum Arabic Spray Dry Powder	Acacia Senegal Gum	1
Phase B		
BioMade IS-HS	Isostearyl Cannabis Seedate	10
BioMade SA-HS	Stearyl Cannabis Seedate	10
Dermol SLLC-LF	Sodium Lauroyl Lactylate	3
Dermowax GMS	Glyceryl Monostearate	5
Cetearyl Alcohol, 50/50	Cetearyl Alcohol	4
Total		100.0

AG1-28: BioMade HS-DD Rinse-Off Mask

Ingredient	INCI	W/W%
Phase A		
DI Water	Water	84.0
Glycerin	Glycerin	5
Dermol CG	Caprylyl Glycol	0.3
Dermothix 100	Disteareth-100 IPDI	5
Phase B		
BioMade HS-DD	Cannabis Seed Oil Dimer Dilnoleyl Esters/Dimer Dilinoleate Copolymer	5
Phase C		
Dragosantol 100	Bisabolol	0.5
Frescolat ML	Menthyl Lactate	0.2
Total		100.0

LF2-39 Natural Lipstick with Hemp Ester

Ingredient	INCI	W/W%
Phase A		
Dermowax BB	Behenyl Behenate	3
Carnauba Wax	Carnauba Wax	3
Candelilla Wax	Candelilla Wax	4.5
Beantree	Methylheptyl Isostearate	18
Dermol HS-DD	Cannabis Seed Oil Dimer Dilinoleyl Esters/Dimer Dilinoleate copolymer	15
Dermol DISD	Diisostearyl Dimer Dilinoleate	20
Dermol TISC	Triisostearyl Citrate	12
Wickenol 535	Wheat Germ Glyceride	7.5
Phase B		
Unipure Red LC381 ADT-C	FeOx Red (and) Isopropyl Titanium Triisostearate (and) Bis-PEG-15 Dimethicone / IPDI Copolymer (and) PEG-2 Soyamine	5
Unipure White LC987 ADT-C	TiO2 (and) Isopropyl Titanium Triisostearate (and) Bis-PEG-15 Dimethicone / IPDI Copolymer (and) PEG-2 Soyamine	7
Cloisone Sparkle Gold	Mica (and) Titanium Dioxide (and) Iron Oxides	5
Total		100

CM1-206: BioMade HS-DD Hemp Conditioner

Ingredient	INCI	W/W%
Phase A		
DI Water	Water	81.25
Phase B		
Nequat DBS	Stearyl Alcohol (and) Beheamidopropyl Ethyldimonium Ethosulfate (and) Dimethyl Palmitamine (and) Dilinoleic Acid	7
BioMade HS-DD	Cannabis Seed Oil Dimer Dilnoleyl Esters/Dimer Dilinoleate Copolymer	4
Stearyl Alcohol	Stearyl Alcohol	4
Cromollient SCE	DI PPG-2 Myreth-ID Adipate	1
Dermol OPG	Ethylhexyl Pelargonate	1
Phase C		
D-Panthenol	Panthenol	1
Nipaguard SCV	Sorbitan Caprylate (and) Propanediol (and) Benzoic Acid	0.75
Total		100.00