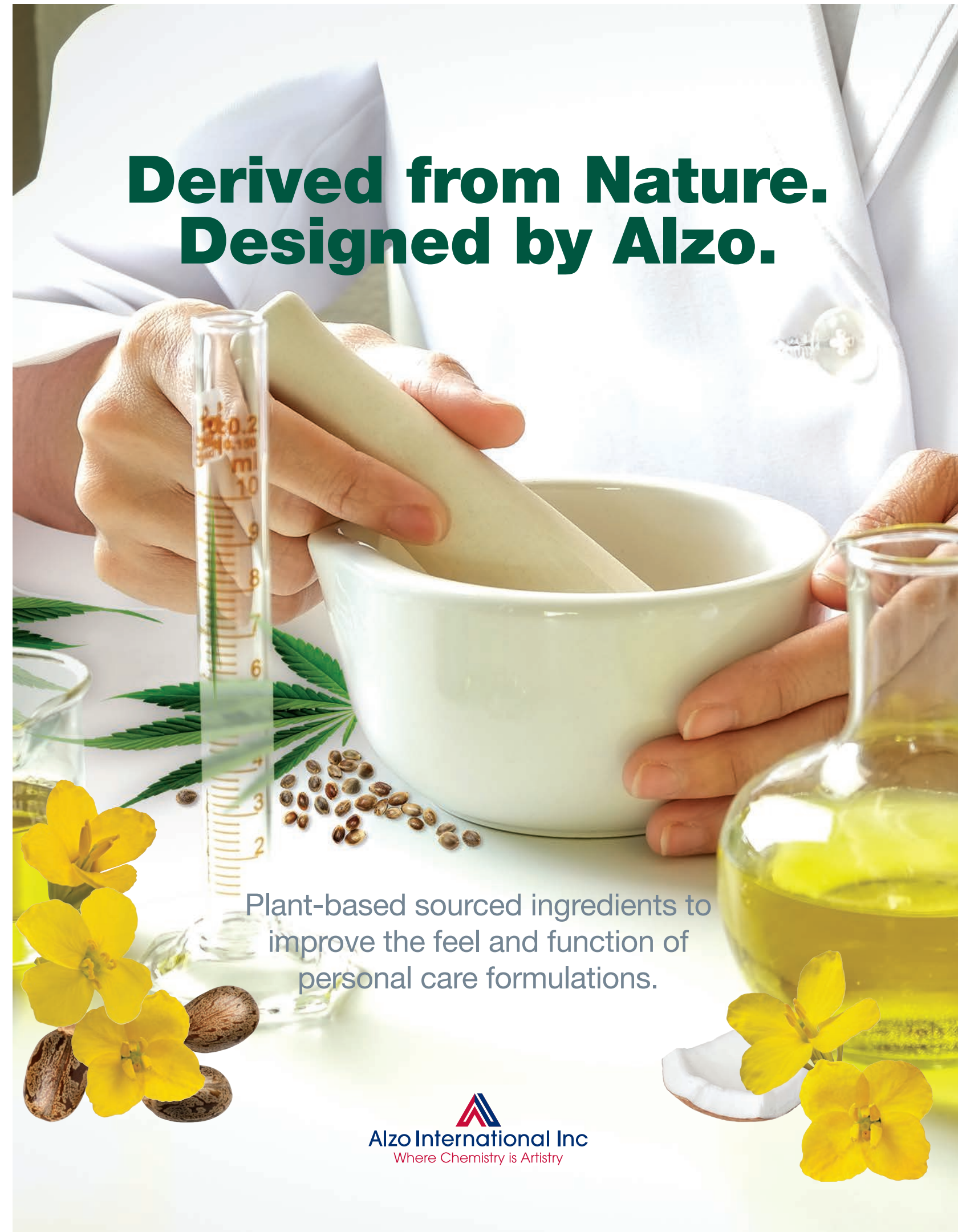


Derived from Nature. Designed by Alzo.



Plant-based sourced ingredients to
improve the feel and function of
personal care formulations.

Natural Derived Specialties

1.00 NOI* (natural origin index) biodegradable liquids, butters, waxes, and solids.

Trade Name	INCI Name	Description
Beantree^{^+}	Methylheptyl Isostearate	COSMOS; light, dry ester, dimethicone alterantive Derived from castor and rapeseed oil
Bernel Ester TCC^{^+}	Tricapryl Citrate	Provides texture, feel and pigment wetting for makeup Derived from castor and sugar cane
BioMade BA-HS	Behenyl Cannabis Seedate	Adds structure to sticks, alternative to synthetic waxes Derived from rapeseed oil and hempseed oil
BioMade BB⁺	Behenyl Behenate	72° melt point, adds viscosity to emulsions and conditioning to hair Derived from eruca oil and rapeseed oil
BioMade C-HS	Capryl Cannabis Seedate	Fast absorbing emollient with a dry, non-oily finish Derived from castor and hempseed oil
BioMade IS-HS	Isostearyl Cannabis Seedate	Medium viscosity spreads easily; similar texture as hempseed oil Derived from rapeseed oil and hempseed oil
BioMade SA-HS	Stearyl Cannabis Seedate	Butter consistency, structure to emulsions and anhydrous formulas Derived from palm and hempseed oil
Dermol 1818⁺	Isostearyl Isostearate	Substantive, non greasy skin feel, adds slip, lubricity and luster Derived from rapeseed oil
Dermol CCAP	Coco Caprylate	Fast spreading emollient; alternative to volatile silicones Derived from coconut, palm and palm kernel
Dermol CO-CA	Coco/Caprylate Caprate	Non greasy conditioning, emolliency and moisturizing Derived from palm and palm kernel
Dermol DG-318⁺	Polyglyceryl-2 Triisostearate	Superior pigment dispersant, compatibility with oils and waxes Derived from palm, coconut and rapeseed oil
Dermol DGDIS^{^+}	Polyglyceryl-2 Diisostearate	Sheen with luxurious skin feel, polar and non-polar solubility Derived from palm, coconut and rapeseed oil
Dermol LL⁺	Lauryl Lactate	Cleaves on the skin to release lactic acid; carrier for actives Derived from palm, corn and palm kernel
Dermol MBDD[^]	Mango Butter Dimer Dilinoleyl Esters/Dimer Dilinoleate Copolymer	Polyester film former, great shine, polybutene alternative Derived from mango and rapeseed oil
Dermol OL[^]	Oleyl Lactate	Spreadability and solubility in polar and nonpolar solvents Derived from palm and palm kernel
Dermol SLLC-L^{^+} Dermol SLLC-LF^{^+}	Sodium Lauroyl Lactate	COSMOS, 100% active liquid surfactant for sulfate free systems Derived from palm, corn, salt and palm kernel
Dermol TISC⁺	Triisostearyl Citrate	Low freeze point, high viscosity; adds sheen, lubricity and gloss Derived from rapeseed oil and sugar cane
Dermowax SB⁺	Stearyl Behenate	Soft rich skin feel builds body in emulsions Derived from palm and rapeseed oil
Mulls 2218	Behenoyl Stearic Acid	Sodium stearate alternative, emulsifies up to 55% water Derived from rapeseed, palm and palm kernel
Trivent Mango Butter^{^+}	Mangifera Indica (Mango) Seed Butter	Melts near body temperature, shea and cocoa butters alternative Derived from mango
Trivent OC-G^{^+}	Tricaprylin	Low viscosity co-solvent, silky, non-oily and non-tacky skin feel Derived from coconut, palm and palm kernel
Wickenol 535^{^+}	Wheat Germ Glycerides	Low HLB co-emulsifier and emollient; adds texture to skin Derived from wheat germ, soya, palm and coconut

Natural Derived Specialties

Delivering unique performance and sensory benefits in a range of personal care uses.

Esters

PRODUCT Beantree	INCI Name Methylheptyl Istostearate	<ul style="list-style-type: none"> ■ COSMOS ■ dimethicone alternative
Bernel Ester TCC	Tricaprylyl Citrate	<ul style="list-style-type: none"> ■ jojoba like skin feel
Dermol DGDIS	Polyglyceryl-2 Diisostearate	<ul style="list-style-type: none"> ■ lubricous, high shine

Esters as Alternatives for Natural Oils

Comparable Chemical and Physical Properties

Squalane and Dermol 1818					
Ingredient	Dielectric Constant	Viscosity (cP)	Refractive Index	Specific Gravity	Required HLB
Squalane	2.13	38 cP	1.452	0.810	9.9
Dermol 1818	2.90	46 cP	1.459	0.870	10.8

- no lot-to-lot variation
- less price volatility
- better oxidative stability
- fewer supply disruptions

Emulsifiers

PRODUCT Mulls 2218	INCI Name Behenoyl Stearic Acid	<ul style="list-style-type: none"> ■ versatile emulsifier ■ structuring agent
Wickenol 535	Wheat Germ Glycerides	<ul style="list-style-type: none"> ■ semi-solid emollient ■ emulsion stabilizer

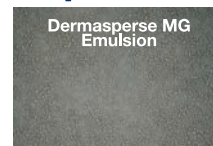
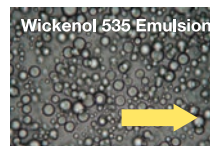
Dermasperse MG System

A Synergistic Approach to **GREEN** Emulsification.

- PEG-free, oil free
- forms uniform fine droplets
- emulsifies high levels of oils



Emulsion Droplet Size Comparison

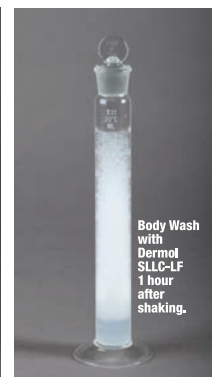
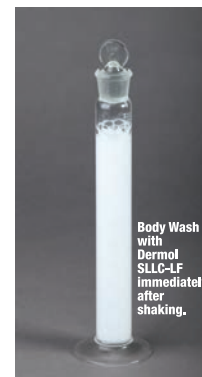


Surfactants

PRODUCT Dermol SLLC-L	INCI Name Sodium Lauroyl Lactylate	<ul style="list-style-type: none"> ■ COSMOS liquid surfactant
Dermol SLLC-LF	Sodium Lauroyl Lactylate	<ul style="list-style-type: none"> ■ COSMOS lavishing foam surfactant

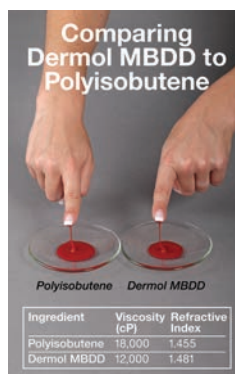


(1) Top Photos: Lipstick applied to forearm
(2) Base Photos: Anhydrous makeup remover applied, then rinsed with water



Polymers

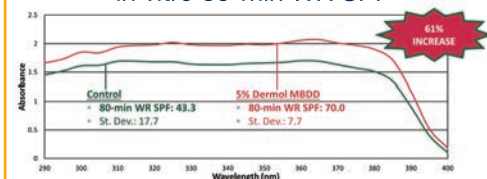
PRODUCT Dermol MBDD	INCI Name Mango Butter Dimer Dilinoleyl Esters/Dimer Dilinoleate Copolymer	<ul style="list-style-type: none"> ■ high MW polyester ■ shine ■ film forming ■ improved wear
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Increased SPF Water Resistance

Dermol MBDD with Organic Sunscreens

in vitro 80-min WR SPF



Derived from Nature. Designed by Alzo.

Formulary

Versatility for skin, hair, and makeup applications.

Natural Mango Butter Body Lotion

Ingredient	INC name	Supplier	W/W%
Phase A			
DI Water	Water		68.00
Glycerin	Glycerin	Alzo	3.00
Phenoxetol	Phenoxyethanol	Clariant	0.50
Caustic Soda 25% solution	Sodium Hydroxide	Alzo	0.40
Dermol CG	Caprylyl Glycol	Alzo	0.30
Veegum Ultra	Magnesium Aluminum Silicate	Vanderbilt Minerals	1.00
FNCSP-PC	Xanthan Gum	Jungbunzlauer	0.50
Phase B			
Beantree	Methylheptyl Isostearate	Alzo	10.00
Trivent Mango Butter	Mangifera Indica (Mango) Seed Butter	Alzo	5.00
Wickenol 535	Wheat Germ Glycerides	Alzo	5.00
Dermol MBDD	Mango Butter Dimer Dilinoleyl Esters/Dimer Dilinoleate Copolymer	Alzo	2.00
Stearyl Alcohol	Stearyl Alcohol	Alzo	2.00
Mulls 2218	Behenoyl Stearic Acid	Alzo	1.50
Phase C			
Citric Acid	Citric Acid	Alzo	QS
Total			100.00

Formula NOI: 99.5% Naturally Derived (ISO 16128)

Natural Anhydrous Makeup Remover

Ingredient	INCI Name	Supplier	W/W%
Beantree	Methylheptyl Isostearate	Alzo	50.00
Trivent OC-G	Tricaprylin	Alzo	35.00
Dermol SLLC-L	Sodium Lauroyl Lactylate	Alzo	15.00
Total			100.00

Formula NOI: 100% Naturally Derived (ISO 16128)

Natural Dermol LL Lipstick

Ingredient	INCI Name	Supplier	W/W%
Phase A			
Dermol LL	Lauryl Lactate	Alzo	40.00
RED 7CA C-11S5	Red 7 Lake (And) Triethoxycaprylylsilane	Kobo	10.00
Kobo Mica S-25	Mica	Kobo	10.00
Phase B			
Dermol GTR	Glyceryl Triacetyl Ricinoleate	Alzo	29.00
BioMade BB	Behenyl Behenate	Alzo	8.00
Carnauba Wax SP63	Copernicia Cerifera (Carnauba) Wax	Strahl and Pitsch	3.00
Total			100.00

Formula NOI: 90% Naturally Derived (ISO 16128)

Natural Foamine BL Conditioner

Ingredient	INCI name	Supplier	W/W%
Phase A			
DI Water	Water		86.01
Zemea Propanediol	Propanediol	Dupont Tate and Lyle	3.00
Phenoxetol	Phenoxyethanol	Clariant	0.50
Dermol CG	Caprylyl glycol	Alzo	0.30
Lactic Acid, 88%	Lactic Acid	Alzo	0.19
XG FNCSP	Xanthan Gum	Jungbunzlauer	0.50
Phase B			
Foamine BL	Stearyl Alcohol (and) Behenamidopropyl Dimethylamine Behenate (and) Linoleamidopropyl Dimethyl Amine Dimer Dilinoleate	Alzo	7.50
Beantree	Methylheptyl Isostearate	Alzo	2.00
Total			100.00

Formula NOI: 98% Naturally Derived (ISO 16128)

Manufacturing procedures available upon request.

