



Tactual Creations for Skin Care


Alzo International Inc
Where Chemistry is Artistry

Soft and Smooth Touches for Skin Care

a diverse range of multifunctional moisturizers which impart outstanding emolliency and lubricity



Naturally Derived Esters Vegetable Based Specialties

Features:

- clear liquids, soft pastes and waxes
- meets ISO16128 standard
- pigment wetting and emulsification properties
- globally and REACH compliant

Bernel Ester TCC

INCI Name:
Tricaprylyl Citrate

Dermol ML

INCI Name:
Myristyl Lactate

Dermol OL

INCI Name:
Oleyl Lactate

Dermol DGDIS

INCI Name:
Polyglyceryl-2
Diisostearate

Mango Butter

INCI Name:
Mangifera Indica

Trivent OC-G

INCI Name:
Tricaprylin

Wickenol 535

INCI Name:
Wheat Germ Glycerides



Silicone Alternatives Esters as Options for Siloxanes

Beantree®

INCI Name:
Methylheptyl
Isostearate
ELINCS No.: 440-220-8

- naturally derived
- Cosmos/Ecocert approved
- REACH compliant

Dermol CCAP

INCI Name:
Coco Caprylate

- naturally derived
- light feel, fast spreading
- colorless



Dermol CO-CA

INCI Name:
Coco
Caprylate/Caprato

- naturally derived
- medium skin feel
- dimethicone alternative

Dermol DCC

INCI Name:
Dicaprylyl
Carbonate

- solubilizer for sunscreens
- colorless
- REACH compliant

Esters as Replacement 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

Jojoba Oil and Wickenol 139					
Ingredient	Dielectric Constant	Viscosity (cP)	Refractive Index	Specific Gravity	Required HLB
Jojoba Oil	2.76	40 cP	1.456	0.860	10.7
Wickenol 139	2.81	44 cP	1.460	0.855	10.7

Specialty Pastes and Waxes

Low to High Melt Point Additives

Marrix SF

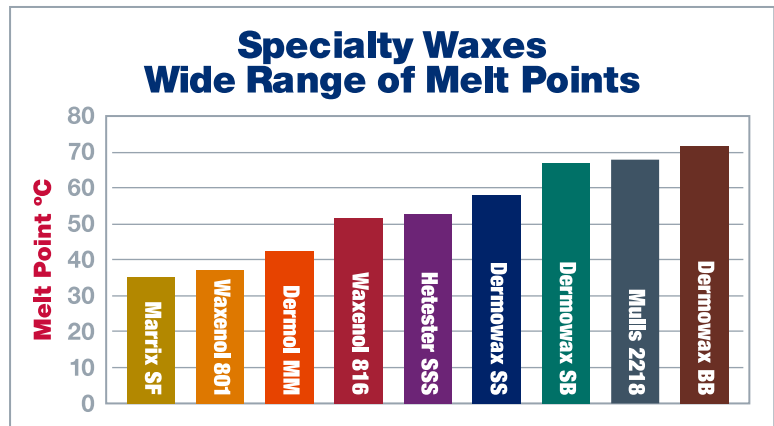
INCI Name:
Di-C12-C15
Alkyl Fumarate

- melts at body temperature
- adds mildness, cushion, and playtime to emulsions
- REACH compliant

Mulls 2218

INCI Name:
Behenoyl
Stearic Acid

- naturally derived
- ester and acid functionality
- unique structuring agent for clear sticks



Textured Impressions for Skin Care

polymer specialties which add unique tactile sensations to topical formulations

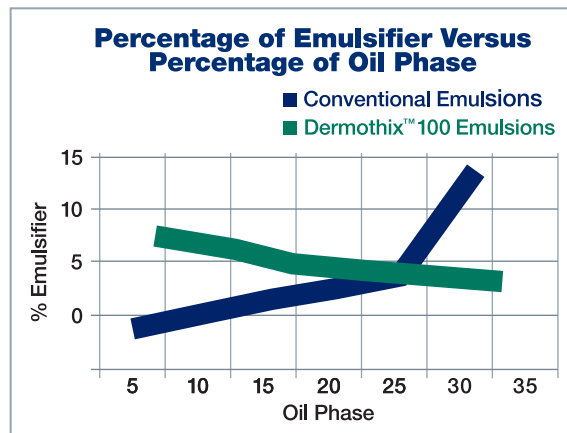
Novel Textures and Emulsification

Multifaceted Oil in Water System

Dermothix™ 100

INCI Name:
Disteareth 100-IPDI

- water miscible polyurethane
- HLB 18.5
- no additional emulsifiers needed
- carbomers alternative
- acid and base tolerant



Dermothix™/ Carbopol Rheology Comparison

Dermothix™ 100

- Newtonian liquid
- solid like when sheared
- liquid when at rest
- zero shear viscosity
- self leveling, flows into wrinkles
- unique rheological texture and sensory experience

Carbopol

- polymer gel
- good yield value for suspending particles
- shear thinning
- non thixotropic
- traditional rheological sensory experience

Petrolatum and Mineral Oil Creams

Uncommon Emolliency and Emulsification

Dermothix™ 100

- emulsifies high levels of lipophilic ingredients
- creates elegant skin feel in mineral oil and petrolatum formulas
- emulsifies up to 40% natural oils

Smooth Petrolatum Cream with Dermothix™

a lubricious and moisturizing emulsion that leaves a non-oily and non-tacky afterfeel

Phase	Product	INCI	%
A	Water	Water	56.00
	Dermothix 100	Disteareth-100 IPDI	1.50
	Dermothix 75	Disteareth-75 IPDI	1.50
B	Snow White Pet USP	Petrolatum	20.00
	Light Mineral Oil	Mineral Oil	20.00
C	Dermol CG	Caprylyl Glycol	0.50
	Phenoxyethanol	Phenoxyethanol	0.50

Dermothix™ Concealer with 2% Salicylic Acid pH 3.5

a smooth cushiony concealer formulated with 2% salicylic acid

Phase	Product	INCI	%
A	Water	Water	58.00
	1,3 Butylene Glycol	Butylene Glycol	2.00
	Dermothix 100	Disteareth-100 IPDI	3.00
B	Beantree	Methylheptyl Isostearate	5.00
	Dermol MOS	Isostearyl Neopentanoate (and) Isocetyl Stearate	5.00
	Dermol OL	Oleyl Lactate	5.00
	Parapel HC-85	Linoleamidopropyl Ethyldimonium Ethosulfate (and) Dimethyl Lauramine Isostearate	1.00
C	Pigment Blend DR1-139		11.22
D	Dermol CG	Caprylyl Glycol	0.50
	Phenoxyethanol	Phenoxyethanol	0.50
E	Salicylic Acid USP	Salicylic Acid	2.00
	SDA 40B	Ethanol 200 Proof	5.00
F	Triethanolamine 99%	Triethanolamine	as needed for pH 3.50
G	Water	Water	q.s. to 100.00

Textured Impressions for Skin Care

polymer specialties which add unique tactile sensations to topical formulations

Polyderm™ Polyesters Polyurethane Emollients for Face and Body

- high gloss delivery
- film forming
- transfer resistant
- superior substantivity
- resistance to hydrolysis
- broad pH stability
- effective at low levels

Product	INCI Name	Description
Polyderm PPI-DGDIS	INCI Name: Polyglyceryl-2 Diisostearate/IPDI Copolymer	vegetable base shine agent and film former for topical applications; China compliant
Polyderm PPI-PE	INCI Name: Polydiethylene Glycol Adipate/IPDI Copolymer	viscous liquid polymer; adds adhesion, gloss and waterproofing; China compliant
Polyderm PPI-PGR	INCI Name: Propylene Glycol Ricinoleate/IPDI Copolymer	excellent pigment and solids wetting for emulsions and stick products



Functional Polymeric Entrapment Optimal Loading and Stability

NuLastic™ Soft

INCI Name:
Divinyldimethicone/
Dimethicone
Crosspolymer

NuLastic™ Slip

INCI Name:
PEG-10 Dimethicone/
Vinyl Dimethicone
Crosspolymer

- patented process
- maximum void capacity
- miscible with high levels of lipophilic and hydrophilic compounds
- retains gel structure and consistency



25% Esters in
NuLastic™ Soft ID-6



30% Vitamin E and
Esters in
NuLastic™ Soft ID-6



30% Hydrophilic
Actives in
NuLastic™ SLIP ID-7

Elastomeric Delivery Ideal Carriers for Skin Additives

NuLastic™

- elastomers in esters and volatile carriers
- crystal clear gels
- distinct skin softening texture
- long lasting emolliency
- compatible with skin actives



CosmoPod™
Unit Dose Capsules by Catalent



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