

PolyNecon™ PPI-SA-15D

An Alternative to Silicone for Outstanding Conditioning

DESCRIPTION:

- derived from natural feed stocks
- reaction of 2 patented and innovative polymers
- polymeric urethane and an amine salt
- high mw results in superior deposition
- ideal for leave on, rinse off and surfactant systems

FEATURES:

- great wet and dry combing
- water soluble
- outstanding slip and lubricity
- soft flexible coating
- sheen, luster and manageability
- substantive but with no buildup
- silky lubricious feel



APPLICATIONS:

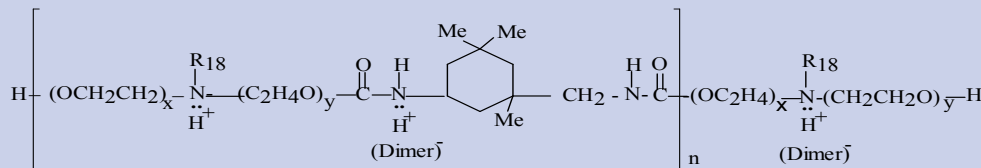
- shampoos
- conditioners
- styling aids
- body washes
- bath & shower gels
- liquid and bar soaps
- creams and lotions



PolyNecon™ PPI-SA-15D

INCI (proposed): PEG-15 Soyamine/IPDI Copolymer Dimer Dilinoleate

CHEMICAL STRUCTURE



X+Y= 15 Avg.

PolyNecon PPI-SA-15D: FORMULARY

PolyNecon Body Wash ps1-274*		
Material	INCI	W/W%
RO Water	Water	54.80
Plantaren 1300	Lauryl Glucoside	5.00
Mackam CBS-50G	Cocamidopropyl Hydroxysultaine	7.00
Foamtaine CAB	Cocamidopropyl Betaine	10.00
Steol CA-230	Ammonium Laureth Sulfate	19.00
Dermothix-75	Disteareth 75/IPDI	1.00
PolyNecon PPI-SA-15D	PEG-15 Soyamine/IPDI Copolymer Dimer Dilinoleate	1.00
Polyderm PPI-SA-D	Di-PEG-2 Soyamine/IPDI Copolymer Dimer Dilinoleate	1.00
Fragrance		1.00
Microcare MTL	Methylisothiazolinone (&) Iodopropynyl Butylcarbamate	0.20
		100.00

Men's Daily Shampoo ps1-0186*		
Material	INCI	W?W%
RO Water	Water	61.89
Citric Acid	Citric Acid	0.05
Mackam 160C-30	Sodium Lauriminodipropionate	5.00
Foamtaine CAB	Cocamidopropyl Betaine	5.00
BioTerge AS-40	C14-16 Olefin Sulfonate	20.00
Dermothix 75	Di-Steareth 75/IPDI	1.00
Plantaren 1300	Lauryl Glucoside	5.00
Polyderm PPI-SA-15	PEG-15 Soyamine/IPDI Copolymer	0.50
PolyNecon PPI-SA-15D	PEG-15 Soyamine/IPDI Copolymer Dimer Dilinoleate	0.50
Fragrance	Carubba Mint D5411	1.00
Kathon CG	Methylchlorisothiazolinone (&) Methylisothiazolinone	0.06
		100.00

PolyNecon Conditioner SPA1-03*		
Material	INCI	W?W%
RO Water	Water	88.55
Nequat DBS	Stearyl Alcohol (and) Stearamidopropyl Ethyldimonium Ethosulfate (and Dimethyl Lauramine (and) Dilinoleic Acid	5.75
Cetyl Alcohol	Cetyl Alcohol	3.00
DC 200 Fluid	Cyclopentasiloxane	1.00
PolyNecon PPI-SA-15D	PEG-15 Soyamine/IPDI Copolymer Dimer Dilinoleate	1.00
Fragrance		0.50
Microcare MTL	Methylisothiazolinone (&) Iodopropynyl butylcarbamate	0.20
		100.00

SOLUBILITY

Soluble in water and alcohol
Dispersible in glycols, glycerols, triols, vegetable and mineral oils
Insoluble in silicone fluids

TYPICAL PROPERTIES

Appearance@ 25C Clear viscous liquid
Odor Mild, characteristic
Color Amber
Refractive index @ 25C 1.4830

NATURALLY DERIVED



ALZO International Inc.

Where Chemistry is Artistry

650 Jernee Mill Rd.
Sayreville, NJ 08872 USA
Phone: (732) 254-1901
Fax: (732) 254-4423
www.alzointernational.com

*Manufacturing procedures available upon request