

Active Performance Bio-Shield

INCI: Water (and) Dicaprylyl Ether (and) Squalane (and) Glycerin (and) Propanediol (and) Polyglyceryl-10 Mono/Dioleate (and) Polyglyceryl-3 Oleate (and) Squalene (and) Phospholipids (and) Tocopheryl Acetate (and) Glycine Soja (Soybean) Sterols (and) Glyceryl Cocoate (and) Cetyl Alcohol (and) Behenyl Behenate (and) Sodium Hyaluronate

September 30, 2015

DC4054

Drench Your Skin With Moisture

Age, exposure to harsh chemicals, UV-irradiation and other environmental aggressors diminish the skin's protective lipid layers leaving skin exposed and more susceptible to drying and irritation. Keeping skin well hydrated is essential in keeping it healthy and preventing premature lines and wrinkles.



Active Performance Bio-Shield insulates skin from the harsh effects of the environment, protecting skin against over-drying and reinforcing its defense against the elements. This deep-hydrating fluid is comprised of specially selected, biologically active components including:

- ◆ Hyaluronic acid (HA) to bind water, maintaining critical hydration of connective tissue, including collagen and elastin
- ◆ Plant phospholipids to improve elasticity and restore lipid barrier function
- ◆ Conditioning agents, such as natural humectants, emollients and film-formers to soften skin and maintain healthy hydration levels
- ◆ Antioxidants to reduce the formation of free radicals, strengthen the skin's barrier function, protect lipid balance and promote healing

Active Performance Bio-Shield spreads effortlessly on skin, drenching it in comforting, non-greasy moisture for a satiny-soft feel; leaving skin hydrated, super-soft, and completely comfortable. In addition, it is safe and gentle enough to use at 100%, minimizing the need for using numerous ingredients in your skin care products.

BENEFITS

- ◆ Super-hydrating/Moisturizing
- ◆ Smoothing
- ◆ Fights free radicals
- ◆ Aesthetic enhancement
- ◆ Long-lasting
- ◆ Skin compliant
- ◆ Protective
- ◆ Plumping

APPLICATIONS

- ◆ Anti-aging
- ◆ Serums
- ◆ Sensitive skin
- ◆ Creams & Lotions
- ◆ Sun protection
- ◆ BB and CC products

FORMULATION GUIDELINES

Recommended use level 10.0 – 100.0%

Active Performance Bio-Shield

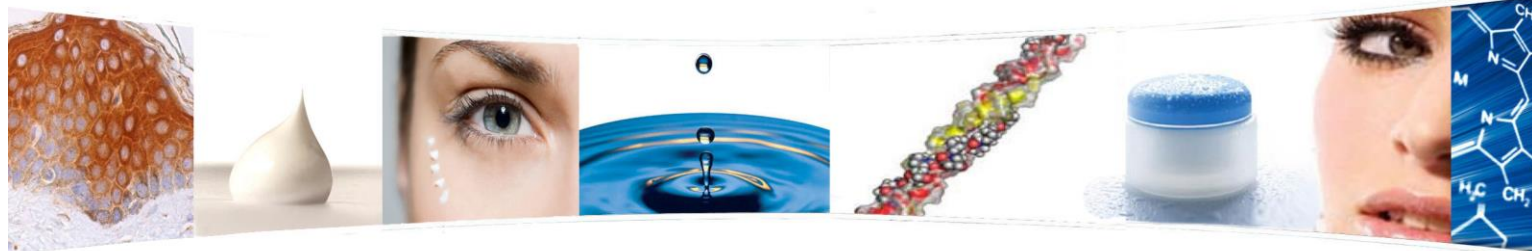
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TYPICAL PROPERTIES

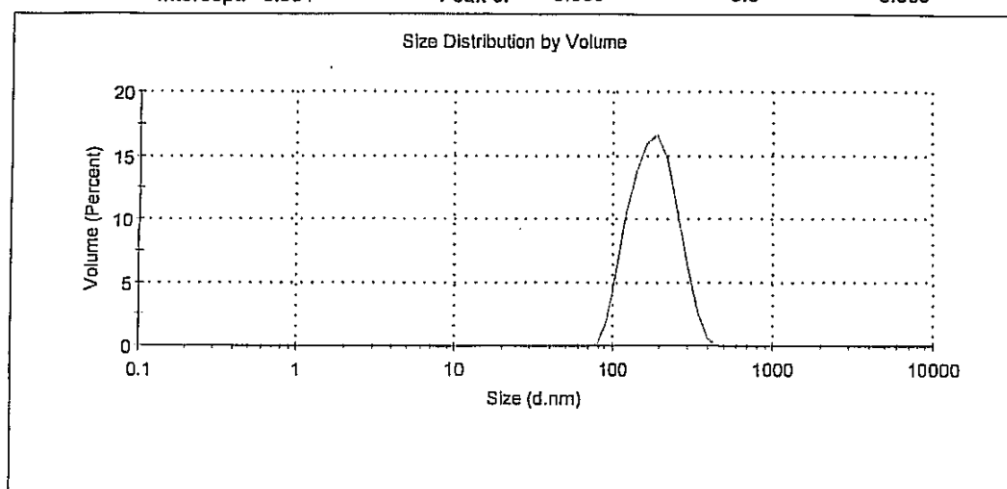
Color	To match standard
Appearance	Liquid
Odor	Characteristic
pH	5.50 – 7.50
Specific Gravity	0.85 – 1.10
Viscosity RVT, 4, 10 RPM, 1 min.	2500 – 7000 cps



PARTICLE SIZE ANALYSIS

DROPLET SIZE

	Diam. (nm)	% Volume	Width (nm)
Z-Average (d.nm): 177.1	Peak 1: 188.3	100.0	61.26
PdI: 0.063	Peak 2: 0.000	0.0	0.000
Intercept: 0.934	Peak 3: 0.000	0.0	0.000



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HYDRO SURGE LOTION Formula: RON24-69-1

PHASE	INGREDIENT	% BY WT	PROCEDURES
A	Water	qs	◆ To the main vessel, add water and begin mixing with a propeller mixer.
A	Disodium EDTA	0.05	
A	Carbopol Ultrez 20 Polymer	0.10	◆ Add remainder of Phase A ingredients. Begin heating to 80°C.
B	Glycerin	0.50	◆ Premix Phase B ingredients and add to batch. Mix until uniform.
B	Xanthan Gum	0.10	
C	Distinctive® Moisture Soft 101 (RON)	10.00	◆ At 80°C, add Phase C ingredient to batch. Mix until uniform.
D	Cetiol OE	4.50	◆ Premix Phase D ingredients and add to batch at 80°C. Mix until uniform.
D	Essachem O	1.50	
E	Sodium Hydroxide 20%	0.15	◆ Begin cooling batch. At 70°C, add Phase E ingredient. Mix until uniform.
F	Diocide	1.00	
G	Active Performance Bio-Shield (RON)	10.00	◆ Homogenize batch for 5 minutes. Switch back to propeller mixer.
		100.00	◆ At 45°C, add Phase F, mix until uniform. ◆ At 30°C, add Phase G, mix until uniform. ◆ Cool to Room Temperature.

MOISTURE SURGE LOTION Formula: RON24-68-1

PHASE	INGREDIENT	% BY WT	PROCEDURES
A	Water	qs	◆ To the main vessel, equipped with a high speed propeller mixer, begin mixing water.
B	Natrosol™ PLUS 330 CS	0.10	
C	Glycerin	3.00	◆ Slowly add Phase B. Heat to 75°C and mix until uniform.
C	Kelcogel® CG-HA	0.05	◆ Premix Phase C ingredients and add to batch at 75°C.
C	Keltrol® CG-SFT	0.10	◆ While holding at 75°C, add Phase D ingredients, one at a time. Mix until uniform.
D	Butylene Glycol	3.00	
D	Hydro-Matrix Rice PGA (RON)	1.00	◆ Begin cooling batch to Room Temperature.
D	Gransil VX-419 (RON/Grant)	3.00	◆ At 40-45°C, add Phase E; mix until uniform.
E	Diocide	1.00	◆ At 25-30°C, add Phase F, mix until uniform.
D	Active Performance Bio-Shield (RON)	10.00	
		100.00	

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