# SunBoost ATB™ Natural

# SPF Booster with Antioxidant Benefits

According to market studies, the demand for antioxidant-fortified products in cosmeceutical applications is increasing by 8-10% annually with Vitamins A, E, and C having the highest demand. SunBoost ATB™ is a proprietary mixture of antioxidants, anti-irritant and anti-inflammatory agents. When used in sunscreens in combination with organic and/or inorganic UV Filters, SunBoost ATB™ shows an increase in SPF and PFA scores by more than 30%. An all natural, *Ecocert approved* version, SunBoost ATB™ Natural, is also available.

Trade Name: SunBoost ATB™
New SunBoost ATB™ Natural+++

INCI: Argania Spinosa Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol SunBoost ATB™ is also available coupled with High Speed™ TiO<sub>2</sub> dispersion, TNP50T7. TNP50T7-ATB can provide up to 4.5 SPF units for each percent of TiO2 in sunscreen formulas while delivering all the benefits of the antioxidants contained in SunBoost ATB™.

Trade Name: TNP50T7-ATB

INCI: C12-15 Alkyl Benzoate (And) Titanium Dioxide (And) Argania Spinosa Kernel Oil (And) Alumina (And) Methicone (And) Tocopheryl Acetate (And) Polyhydroxystearic Acid (And) Bisabolol

Formula Reference	Actives	In Vivo SPF	PFA	% Boost on SPF	% Boost on PFA
KSL-138 O/W Base	Organic 31%	40	13	Control	
KSL-138V	Organic 31% SunBoost ATB™ 5%	54	17	35%	31%
KSL-177-CH W/O Base	TiO <sub>2</sub> 5.78% ZnO 3.74%	19	7	Control	
KSL-177C-CH	TiO <sub>2</sub> 5.78% ZnO 3.74% SunBoost ATB™ 3.6%	30	10	58%	43%
KSL-188 W/O Base	TNP50T7 18.53% (TiO <sub>2</sub> 7.13%)	22	4	Control	
KSL-188E	TNP50T7-ATB 18.53% (TiO <sub>2</sub> 6.85%)	32	7	45%	75%

#### SunBoost ATB™ Natural



+++ Raw material approved by Ecocert in accordance with the Ecocert Standard KOBO
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# -SunBoost ATB™

## High SPF Sunscreen with SunBoost ATB™



#### KSL-138V

Part 1 • Deionized Water • Liposorb® L-20 - Vantage: Polysorbate 20  Part 2	45.90% 1.00%	Manufacturing Procedure  1. In main kettle, combine Part 1 ingredients and heat to 78-80°C.  2. Combine Part 2 ingredients and heat to 80°C. Mix until uniform using propeller mixer.  3. Add Part 2 to Part 1 and mix until uniform.			
<ul> <li>Propylene Glycol - Symrise: Propylene Glycol</li> <li>KELTROL® CG - CP Kelco: Xanthan Gum</li> </ul>	1.50% 0.30%	4. Combine Part 3 ingredients. Heat to 80°C and add to batch with propeller mixing.			
Part 3  • Neo Heliopan® HMS - Symrise: Homosalate  • Neo Heliopan® OS - Symrise: Ethylhexyl Salicylate  • Ceraphyl® 368 - ISP: Ethylhexyl Palmitate  • SunBoost ATB™ - Kobo Products: Argania Spinosa	15.00% 10.00% 7.00%	<ul> <li>5. Add Part 4 while cooling.</li> <li>6. Homogenize for approximately 2 minutes at 4000 rpm.</li> <li>7. Add Part 5 to batch.</li> <li>8. Homogenize for approximately 1 minute at 4000 rpm.</li> <li>9. Cool batch to 30°C.</li> </ul>			
Kernel Oil (And) Tocopheryl Acetate (And) Bisabolol	5.00%	Description This sunscreen contains Kobo's new SunBoost ATB™. This product is a proprietary ratio of anti-oxidants, anti-irritant and			
<ul> <li>Lipo® GMS 450 - Vantage: Glyceryl Stearate</li> <li>Neo Heliopan® 357 - Symrise: Butyl</li> </ul>	3.00%	anti-inflammatory agents. In this sunscreen, SunBoost ATB™ increased the SPF from 40 to 54. It can also boost PFA values.			
Methoxydibenzoylmethane • Neo Heliopan® BB - Symrise: Benzophenone-3 • Lipomulse® 165 - Vantage: Glyceryl Stearate (And)	3.00% 3.00%	**The USA limit of Ethylhexyl Salicylate is 5%. This formula is not for use in USA.			
PEG-100 Stearate  Covi-ox® T-50 - Cognis Corp.: Tocopherol  Lipowax® D - Vantage: Cetearyl Alcohol (And)	2.00% 0.50%	Active Ingredients Homosalate 15.00%			
Ceteareth-20 • Liposorb® TS - Vantage: Sorbital Tristearate	0.50% 0.30%	Ethylhexyl Salicylate 10.00% Butyl Methoxydibenzoylmethane 3.00% Benzophenone 3.00%			
Part 4 • Botanistat PF-64 - DD Chemco: Phenoxyethanol (and) Caprylyl Glycol (and) Ethylhexylglycerin (and) Hexylene Glycol	1.00%	SPF & UVA-PF Testing: in vivo on 3 subjects			
Part 5  • Aculyn™ 44 - Rohm & Haas: PEG-150/Decyl Alcohol/SMDI Copolymer	1.00%				

### Economical O/W Sunscreen with SunBoost ATB™ & TNP Dispersions

3.00%

1.00%



#### KSL-177C-CH

Part 1 • Deionized Water • Germaben® II - ISP: Propylene Glycol (Ar	
Diazolidinyl Urea (And) Methylpåraben ( Propylparaben	(And) 1.00%
Part 2 • Glycerin U.S.P. Natural 96% - Cognis Corp • KELTROL® CG - CP Kelco: <i>Xanthan Gum</i>	o.: Glycerin 4.00% 0.20%
Part 3 TNP50T7 - Kobo Products: C12-15 Alkyl (And) Titanium Dioxide (And) Alumina (A Polyhydroxystearic Acid (And) Methicone TNP65FZS - Kobo Products: Zinc Oxide (C12-15 Alkyl Benzoate (And) Triethoxycc (And) Polyhydroxystearic Acid SunBoost ATBM - Kobo Products: Arganic Kernel Oil (And) Tocopheryl Acetate (And) Lipopeg® 100-S - Vantage: PEG-100 Steare Lipo® GMS 450 - Vantage: Glyceryl Steare	And) e 15.00% And) aprylylsilane 6.00% a Spinosa d) Bisabolol 3.60% rate 2.50%
<ul> <li>Dermol 25B - Alzo International Inc.: C12 Benzoate</li> <li>Shea Butter - Cognis Corp: Shea Butter</li> </ul>	2-15 Alkyl 0.60% 0.40%

**Manufacturing Procedure** 

1. Combine Part 1 and heat to 70°C.

2. Combine Part 2 ingredients into a slurry and add to Part 1 while mixing.
3. Combine Part 3 and heat to 70°C.

4. Combine Parts 1 and 2 with Part 3 under homogenization.

5. Add Part 4 while cooling.

#### Description

Dispersion, TNP50T7, and Kobo's Zinc Oxide Dispersion, TNP65FZS. The proportion of Titanium Dioxide to Zinc Oxide provides SPF 30, with minimal whitening on the skin. MSS-500W spherical silica microsphere provides slip during application and reduces shine on the skin. SunBoost  $ATB^{\mathrm{m}}$ , a proprietary ratio of anti-oxidants, anti-irritant and anti-inflammatory agents, helps boost SPF and PFA.

#### **Active Ingredients**

Titanium Dioxide	5.775%
Zinc Oxide	3.744%

SPF & UVA-PF Testing: in vivo on 3 subjects

• MSS-500W - Kobo Products: Silica

• Sepigel™ 305 - SEPPIC: Polyacrylamide (And) C13-14 Isoparaffin (And) Laureth-7