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Refreshingly Vivid Sport Sunscreen SPF 35 +, Broad Spectrum

- Uses Zinc Oxide to synergize with organic UV filters, designed for exercise, outdoor sports and beach activities.
- Amazingly light and cool sensory with anticipated water resistance performance.
- Extremely high transparency, blends instantaneously into the skin with no greasy sensory or white residue.
- Great spreadability simplifies formulation development and manufacturing process with great sensory profile.
- G-Block DZ 480 CCT: Fine and stable dispersion of 80 % of UV grade Zinc Oxide with broad-spectrum sun protection benefit, very good transparency and slick sensory. Ideal for mass market and synergistic with organic UV filter.
- PhytoCare-HA CG 1M [Snow Mushroom (Tremella Funciformis Sporocarp) Extract]: Natural substitute of bacterially-fermented hyaluronic acid, with benefits such as moisture restoration, anti-oxidation, anti-aging flexible film formation and strong tolerance under various temperature, pH levels, and salt concentration.

SPF 39; CW 378; PA +++; UVAPF:15-20

Phase	INCI Name, (Trade Name)	Wt%	
Α	Distilled Water	54.2	
	Snow Mushroom Extract (PhytoCare-HA CG 1M)	0.20	Process:
	Microcrystalline Cellulose (and) Cellulose gum (Vivapur COS-5)	1.30	1. Stir Phase A with propeller mixer (500-
	Dissolvine GL-47S	0.10	700 rpm) for 10 minutes and
	Glycerine	2.00	homogenize at 4000 rpm for 10 minutes
	Phenoxylethanol (and) Ethylhexyl Glycerin (Euxyl PE 9010)	0.70	at RT until Vivapur COS-5 is fully dissolved, and then heat up to 80C.
	Propylene Glycol	2.00	dissolved, and then heat up to soc.
В	G-Block DZ 480 CCT	10.0	2. Mix and heat Phase B at 300-500 rpm
	Cetearyl Alcohol (and) Coco Glucoside (Montanov 82)	1.00	until mixture reaches 80C.
	Cetearyl alcohol (and) cetearyl glucoside (Montanov 68)	3.00	
	Cetearyl alcohol	1.50	3. After adding Phase C into Phase B, slowly
	Avobenzone	1.50	add Phase B/C into Phase A with propeller
	Homosalate	3.00	mixer for 5 minutes, and then homogenize 4000-4500 rpm at 75-80 C
	Octocrylene	3.00	for 5 minutes.
	Octisalate	6.00	Tot 5 minutes.
	Performalene 400	1.50	4. Switch to a propeller mixing while
	Alkyl Benzoate	2.00	cooling down to RT. Add water that may
	Butylene Glycol dicaprylate/dicaprate (Miglyol 8810)	3.00	evaporate during process.
	Dimethicone oil (50 cP)	1.00	
С	DC 245	3.00	
Feature	Viscosity (cP) @ 10 rpm	25,200	pH 7.3

This information contained herein is believed to be reliable, but no representation, guarantees or warranties of any kind are made as to its accuracy, suitability for particular application or the results to be obtained. Formulations presented should be used only as a suggested starting point. Full-scale testing and end product performance are the responsibility of the user. Applechem, Inc. makes no warranties, express or implied, including, but not limited to, the implied warranties of the existing third party intellectual property right, especially patents, and merchantability and fitness for a particular purpose. Edition: Oct, 2016, Ref #: DZ 480 CCT- SUB Z1610-2