

Formulary Data

SPF 30 Water Resistant Sport Lotion

DESCRIPTION: **PERFORMALENE™ 400 Polyethylene** provides water resistance, enhanced SPF and dry feel in this non-greasy sport formula. **PERFORMATHOX™ 480 Ethoxylate** acts as an emulsifier producing a smooth, creamy formula.

	INGREDIENTS	% BY WEIGHT
Phase 1	PERFORMALENE™ 400 Polyethylene (Polyethylene)*	2.50
	PERFORMATHOX™ 480 Ethoxylate (C ₂₀₋₄₀ Pareth-40)*	0.25
	Stearic Acid ①	1.30
	Cetearyl Alcohol ②	2.00
	Diisodecyl Adipate ③	8.50
	TEA (99%)	0.25
Phase 2	Benzophenone 3 ④	6.00
Phase 3	Octocrylene ⑤	10.00
Phase 4	Octyl Methoxycinnamate ⑥	7.50
Phase 5	Deionized Water	q.s.
	Carbomer(2% Sol'n) ⑦	7.50
	Acrylates C10-30 Alkyl Acrylate Crosspolymer(2% Sol'n) ⑧	7.50
	Propylene Glycol	1.00
Phase 6	Phenoxyethanol, Methylparaben, Butylparaben, Ethylparaben, Propylparaben ⑨ Fragrance	1.00 q.s.

PROCEDURE: Heat Phase 1 to 85-90°C with propeller mixer. When ingredients are fully dispersed, reduce heat to 80-85°C. Add Phase 2 through 4 in order, dispersing each phase before adding next. Heat Phase 5 to 80-85°C while propeller mixing. Emulsify, adding oil phase to water phase with high speed mixing. Continue mixing for 10-15 minutes. Remove from heat and continue propeller mixing until cooled to 70-75°C. Switch to sweep mix and allow mixture to cool to 25-30°C. Add Phase 6 with mixing.

① Hystrene 5016-Witco

④ UVINUL® M40-BASF

⑦ Carbopol 940 - Lubrizol

② Crodacol CS-50-Croda

⑤ Neo Heleopan 303 Kah Specialty Products

⑧ Pemulen TR1 - Lubrizol

③ Trident DIDA - Alzo International

⑥ Eusolex 2292-Rona

⑨ Phenonip-Clariant

*CTFA / INCI Name

(Continued on next page...)

12645 West Airport Boulevard
Sugar Land TX 77478
TEL. +1-888-562-9797 | FAX +1-281-276-5669
newphase@bakerpetrolite.com
www.newphasepolymers.com



Because it has become common for purchasers of our products to file patents for specific end uses of our products, Baker Petrolite Polymers advises its customers to research their particular end use for possible intellectual property issues with respect to third party patents.

New Phase Technologies warrants to customer, but to no third parties or others, the specifications for the product referenced herein shall fall within a generally recognized range for typical physical properties of the product established by New Phase Technologies when the product departs New Phase Technologies' point of origin. Additionally, New Phase Technologies assumes no responsibility to update this information or provide notice of any relevant changes.

NEW PHASE TECHNOLOGIES MAKES NO OTHER WARRANTY OR GUARANTEE OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE FOR THE PRODUCT. IT IS UNDERSTOOD BY CUSTOMER THAT NEW PHASE TECHNOLOGIES WILL GIVE THE CUSTOMER THE BENEFIT OF ITS BEST JUDGEMENT IN MAKING INTERPRETATIONS OF DATA, BUT DOES NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF SUCH INTERPRETATIONS. NEW PHASE TECHNOLOGIES' RECOMMENDATIONS CONTAINED HEREIN ARE ADVISORY ONLY AND WITHOUT REPRESENTATIONS AS TO THE RESULTS.

New Phase Technologies shall not be liable for any indirect, special, punitive, exemplary or consequential damages and losses, including, without limitation, damages for lost production, lost revenues, lost product, lost profits or lost business or business interruptions for any cause whatsoever including but not limited to its negligence, and customer releases New Phase Technologies in this regard.

PERFORMALENE, PERFORMATHOX and NEW PHASE TECHNOLOGIES are trademarks of Baker Hughes Incorporated.
© 2008 Baker Hughes Incorporated. All rights reserved.

PET-08-23382 (12/2012)