

ReefGuard - SPF 50 (expected) Hybrid Sunscreen N19847-014

Description

Stay mindful of sun exposure & coral reefs at the beach this summer with ReefGuard.

ReefGuard Hybrid Sunscreen provides the strong protective coverage of mineral UV filters without the white cast.

Incorporating Parsol Shield, a newly US approved UV filter, and chemical UV filters into the formula reduces the mineral load, providing solid SPF 30+ protection while appearing natural on the skin.

This formulation features Amaze® XT polymer for its suspension capabilities, Structure® XL starch for its cohesive, cushioned rheology and matte finish upon dry-down, SolAmaze® Natural solution, an environmentally conscious biodegradable film former, providing 80-minute water resistance, and Amaze® Nordic Barley starch, a natural aesthetic modifier that leaves the skin feeling soft & reduces typical sunscreen shine.

Formula

Trade Name	INCI Name	%w/w	Supplier
Phase A			
Deionized Water	Aqua (Water)	55.970	Local
STRUCTURE® XL starch	Hydroxypropyl Starch Phosphate	1.000	Nouryon
Amaze® XT polymer	Dehydroxanthan Gum	0.200	Nouryon
Phase B			
Jeescreen HMS	Homosalate	4.000	Jeen
Jeescreen OS USP	Octisalate	4.000	Jeen
PARSOL Shield	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	2.000	DSM-Firmenich
Super Zinc Natural	Zinc Oxide (and) Polyhydroxystearic acid	8.000	Vizor
LexFeel Enhance MB	Diheptyl Succinate (and) Propylene Glycol Dibenzoate (and) Capryloyl Glycerin/Sebacic Acid Copolymer	3.000	Inolex Chemical
Myritol 312	Caprylic/Capric Triglyceride	5.000	BASF
Sisterna SP70-C	Sucrose stearate	2.000	Sisterna
Sisterna SP50-C	Sucrose Stearate	2.500	Sisterna
Phase C			
SolAmaze® Natural solution (60% active)	Diisostearoyl Polyglyceryl-3 Dimer Dilinoleate (and) Caprylic/Capric Triglyceride	3.330	Nouryon
Amaze® Nordic Barley starch	Hordeum Vulgare Seed Flour	4.000	Nouryon
Propanediol	Propanediol	4.000	DuPont Tate & Lyle BioProducts

Created:2026-07-29 17:07:05 GMT **Modified:**2026-09-09 13:09:45 GMT

Europe:Stenungsund, Sweden, T: +46 303 85000, F: +46 303 771973, e: personalcare.europe@nouryon.com

Americas:Chicago, Illinois, US, T: +1 800 906-9977, F: +1 908-707-3664, e: personalcare.usa@nouryon.com

South America:Itupeva, SP, Brazil, T: +55-11-4591-8870, F: +55-11-4591-8804, e: personalcare.southamerica@nouryon.com

Asia/Pacific:Shanghai, P.R., China, T: +86-21-2220-5000, F: +86-21-2220-5558, e: personalcare.china@nouryon.com

ReefGuard - SPF 50 (expected) Hybrid Sunscreen
N19847-014

Euxyl® PE 9010	Phenoxyethanol (and) Ethylhexylglycerin	1.000	Ashland
Total:		100.000	

Procedure

Phase A: Add water to main beaker and begin mixing with an overhead propeller blade, being careful not to induce too much shear. Add Structure® XL starch and allow to fully hydrate. Slowly sift in Amaze® XT and ensure there is no clumping. Allow to fully hydrate, then begin heating to 75-80°C while mixing.

Phase B: Combine all UV filters and emollients in a beaker under moderate homogenization and begin heating to 75-80°C. Add emulsifiers once Phase B reaches 65°C. Once at temperature, add Phase B to Phase A under strong homogenization (~6000rpm). Homogenize for 10 minutes, then return to a lower mixing speed (~3500rpm) and remove from heat. Allow to homogenize at this speed until 45°C.

Phase C: Once the batch reaches 45°C, Slurry Amaze™ Nordic Barley starch with propanediol and add to the batch. Once added, allow to mix until incorporated, then move back to an overhead mixer with an anchor blade at a low mixing speed. Add SolAmaze® Natural solution and Euxyl® PE9010 and allow to fully combine with the formulation.

pH adjustment: Using 10-25% citric acid solution, adjust pH between 7.0-8.0. Lower mixing speed to a slow sweep ~25rpm and allow to cool to room temperature.

Properties

Appearance	White Emulsion	
Viscosity	15000-20000 centipoise	Temperature: 25 °C
pH	6.0-7.0	Temperature: 25 celsius

Packaging

Packaging: 1oz Squeeze Container

All information concerning our products and/or all suggestions for handling and use contained herein (including formulation and toxicity information) are offered in good faith and are believed to be reliable. However Nouryon makes no warranty express or implied (i) as to the accuracy or sufficiency of such information and/or suggestions, (ii) as to any product's merchantability or fitness for a particular use or (iii) that any suggested use (including use in any formulation) will not infringe any patent. Nothing contained herein shall be construed as granting or extending any license under any patent. The user must determine for itself by preliminary tests or otherwise the suitability of any product and of any information contained herein (including but not limited to formulation and toxicity information) for the user's purpose. The safety of any formulations described herein has not been established. The suitability and safety of a formulation should be confirmed in all respects by the user prior to use. The information contained herein supersedes all previously issued bulletins on the subject matter covered.

Created:2026-07-29 17:07:05 GMT Modified:2026-09-09 13:09:45 GMT