

## SUN BEACH LIGHT CREAM SPF 50+

16.119.01 C173

- Claims:**
- Easily spreadable light cream SPF 50+ (*in vitro* test)
  - Exquisite dry touch
  - Ultimate global protection UVB - UVA - IR & soothing action
  - No alcohol, no skin feel enhancer

PHASE	INGREDIENT	INCI NAME	SUPPLIER	%
A	Deionised Water Eusolex® 232 Sodium Hydroxide 33%	Water Phenylbenzimidazole Sulfonic Acid Sodium Hydroxide	- Merck -	56.75 3.00 Qsp pH between 7.0 - 7.5
B	Dermofeel® PA-3	Sodium Phytate (and) Water (and) Alcohol	Dr Straetmans	0.10
C	Ecogel™	Lysolecithin (and) Sclerotium Gum (and) Xanthan Gum (and) Pullulan	Lucas Meyer Cosmetics	2.00
D	Heliofeel™  Eusolex® 9020 Eusolex® 2292 Uvinul® N 539 T Eusolex® OS Eusolex® HMS Saboderm AB Vitapherole® E-1000	Glyceryl Stearate Citrate (and) Polyglyceryl-3 Stearate (and) Hydrogenated Lecithin Butyl Methoxydibenzoylmethane Ethylhexyl Methoxycinnamate Octocrylene Ethylhexyl Salicylate Homosalate C12-15 Alkyl Benzoate Tocopherol (and) Helianthus Annuus (Sunflower) Seed Oil	Lucas Meyer Cosmetics  Merck Merck BASF Merck Merck Prod'Hyg VitaeNaturals	4.00  3.00 4.10 1.00 4.10 4.10 4.00 0.10
E	Tinosorb® M	Methylene Bis-Benzotriazolyl Tetramethylbutylphenol (and) Water (and) Decyl Glucoside (and) Propylene Glycol (and) Xanthan Gum	BASF	7.50
F	Elix-IR™  Abyssine™ 657  Tazman Pepper™ AF	Water (and) Glycerin (and) Polygonum Aviculare Extract Water (and) Butylene Glycol (and) Alteromonas Ferment Extract Glycerin (and) Water (and) Tasmannia Lanceolata Fruit/Leaf Extract	Lucas Meyer Cosmetics  Lucas Meyer Cosmetics  Southern Cross Botanicals*	1.00  2.00  2.00
G	Verstatil® PC	Phenoxyethanol (and) Caprylyl Glycol	Dr Straetmans	1.10
H	Solaire 1	Fragrance	IFF	0.15

### Manufacturing Procedure:

1. Mix Eusolex® 232 into water. Add sodium hydroxide under medium stirring to solubilize the filter until total solubilization (adjust pH between 7.0 - 7.5).
2. When phase A is totally transparent, add B.
3. Heat AB and D up to 75-80°C.
4. When the temperature reaches 65°C, add C into AB and maintain medium stirring for 30 minutes to hydrate phospholipids. Ensure maximum of agitation to deploy the gel.
5. Add D and apply a maximum stirring during 3 minutes to emulsify product.

### Formula Specifications:

Aspect: Slight beige cream  
 Viscosity (Rheo ELV 8, spindle 4, 6 rpm, 1 min): 20 000 - 30 000 cP  
 pH: 7.0 - 7.5  
 Preservative efficacy test: Pass  
 Pilot batches: 49 kg

### Stability Tests: On lab batches up to 3 kg

Up to 1 month at 50°C  
 Up to 3 months at: Room Temperature, 4-8°C and 45°C  
 Freeze thaw cycles (24h at -18°C and 24h at RT - 2 weeks)

6. Just after the emulsification phase, add E under medium stirring.
7. Add F (one by one), G and H below 40°C.
8. Adjust the pH if necessary between 7.0 - 7.5.

Centrifugation (3000 rpm, 20 min): Stable  
Vibrating table (400 rpm, 4h): Stable

\* A Lucas Meyer Cosmetics company