

Formulation Example

MDA-S-218-05

Protect & Calm | Soothing Sunscreen SPF 50, UVA

Ingredients	Art. No.	INCI EU	[%]
A			
RonaCare® Bisabolol nat.	1.30170 (1)	BISABOLOL	0.50
RonaCare® AP	1.30163 (1)	BIS-ETHYLHEXYL HYDROXYDIMETHOXY BENZYL MALONATE	1.00
Eusolex® BEMT	1.32992 (1)	BIS-ETHYLHEXYLOXYPHENOL METHOXYPHENYL TRIAZINE	4.00
Eusolex® EHT	1.32994 (1)	ETHYLHEXYL TRIAZONE	5.00
DHHB		DIETHYLAMINO HYDROXYBENZOYL HEXYL BENZOATE	8.00
Emulsiphos® F	(2)	POTASSIUM CETYL PHOSPHATE, HYDROGENATED PALM GLYCERIDES	2.00
Cetiol® B	(3)	DIBUTYL ADIPATE	9.00
Tegosoft® TN	(4)	C12-15 ALKYL BENZOATE	9.00
Massocare® SQV	(5)	SQUALANE	3.00
KahlWax 2811 Rice	(6)	ORYZA SATIVA BRAN WAX	1.00
Kahlwax 6607L MB Sunflower	(6)	HELIANTHUS ANNUUS SEED CERA, ASCORBYL PALMITATE, TOCOPHEROL, HELIANTHUS ANNUUS SEED OIL	0.50
B1			
Eusolex® 232 USC	1.32429 (1)	PHENYLBENZIMIDAZOLE SULFONIC ACID	3.50
RonaCare® Ectoin	1.30200 (1)	ECTOIN	0.50
Glycerol anhydrous (vegetable)		GLYCERIN	4.00
RonaCare® Tromethamine	1.32386 (1)	TROMETHAMINE	1.60
Complexing agent (q.s.)			0.00
Water, demineralized		AQUA	ad 100
B2			
VIVAPUR® CS TEX SUN	(7)	MICROCRYSTALLINE CELLULOSE, CELLULOSE GUM	0.50
Keltrol® CG-SFT	(8)	XANTHAN GUM	0.15
B3			
RonaFlair® LDP White	1.17755 (1)	SODIUM POTASSIUM ALUMINUM SILICATE, CI 77891, SILICA	3.00
C			
Preservatives (q.s.)			s.q.

Procedure:

Dissolve Tromethamine in the water of phase B1; add Eusolex® 232 USC and stir until a clear solution is obtained. Then add the remaining ingredients of phase B1. Disperse phase B2 into phase B1, then add phase B3. Heat up phase A and B to 75-80°C. Add phase A into phase B while stirring. Homogenize. At 45°C, add phase C. Adjust pH value with Sodium hydroxide to 6.8-7.2.

Notes:

Formulation Example

Appearance: yellowish o/w emulsion

pH value: 7.0 (22°C)

Viscosity 40 000 mPa.s (IKA ROTAVIS me-vi, Helistand, spindle B, 50 rpm) at 22°C

Stability: 3 months at 40°C, FTC (-5 °C to +40°C), 5°C, RT and 1 week at 50°C

Suppliers:

(1) Susonity Commercial GmbH, Germany and/or its affiliates

(3) BASF AG

(5) Messo

(7) J. Rettenmaier & Söhne GmbH

(8) RAHN GmbH

(2) Symrise

(4) Evonik Nutrition & Care GmbH

(6) Kahl GmbH & Co. KG

Products are warranted to meet the specifications set forth on their label/packaging and/or certificate of analysis at the time of shipment or for the expressly stated duration. Susonity provides information and advice on application technologies and relevant regulations based upon its current knowledge and opinion. SUSONITY MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE REGARDING OUR PRODUCTS OR ANY INFORMATION PROVIDED IN CONNECTION THEREWITH. Customer is responsible for and must independently determine suitability of Susonity's products for customer's products, intended use and processes, including the non-infringement of any third parties' intellectual property rights. Susonity shall not in any event be liable for incidental, consequential, indirect, exemplary or special damages of any kind resulting from any use or failure of the products: All sales are subject to Susonity's complete Terms and Conditions of Sale. Prices are subject to change without notice. Susonity reserves the right to discontinue products without prior notice. Detailed information on trademarks is available via publicly accessible resources.