

# Formulation Example

## MDA-S-219-02

### Protection in Each Drop | Sun Drop Fluid SPF 50, UVA

Ingredients	Art. No.	INCI EU	[%]
<b>A</b>			
RonaCare® AP	1.30163 (1)	BIS-ETHYLHEXYL HYDROXYDIMETHOXY BENZYL MALONATE	1.00
Eusolex® OS	1.06949 (1)	ETHYLHEXYL SALICYLATE	5.00
Eusolex® BEMT	1.32992 (1)	BIS-ETHYLHEXYLOXYPHENOL METHOXYPHENYL TRIAZINE	3.00
Eusolex® EHT	1.32994 (1)	ETHYLHEXYL TRIAZONE	3.50
DHHB		DIETHYLAMINO HYDROXYBENZOYL HEXYL BENZOATE	6.00
Eumulgin® SG	(2)	SODIUM STEAROYL GLUTAMATE	2.50
Eumulgin® VL 75	(2)	LAURYL GLUCOSIDE, POLYGLYCERYL-2 DIPOLYHYDROXYSTEARATE, GLYCERIN	0.50
Nafol 1618H	(3)	CETEARYL ALCOHOL	2.50
Tegosoft® TN	(4)	C12-15 ALKYL BENZOATE	3.00
Cetiol® B	(2)	DIBUTYL ADIPATE	10.00
<b>B</b>			
Eusolex® 232 USC	1.32429 (1)	PHENYLBENZIMIDAZOLE SULFONIC ACID	3.00
RonaCare® Ectoin	1.30200 (1)	ECTOIN	0.50
Glycerol anhydrous (vegetable)		GLYCERIN	3.00
Triethanolamine		TRIETHANOLAMINE	1.74
Water, demineralized		AQUA	ad 100
<b>B1</b>			
Keltrol® CG-SFT	(5)	XANTHAN GUM	0.25
<b>C</b>			
Preservatives (q.s.)			q.s.
Fragrance (q.s.)		PARFUM	q.s.

#### Procedure:

Disolve Triethanolamine in the water of phase B; add Eusolex® 232 USC and stir until a clear solution is obtained. Then add the remaining ingredients of phase B. Disperse phase B1 into phase B. Heat phase A to 80-85°C and phase B to 75°C. Add phase A into phase B while stirring. Homogenize. At 45 °C add phase C. Adjust pH value with to 6.8-7.5.

#### Notes:

Appearance: yellowish o/w emulsion; -shake before use-  
pH value: 7.2 (22°C)

Viscosity: 400-700 mPa.s (IKA ROTAVIS me-vi, Helistand, spindle B, 100 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) Sasol Germany GmbH

(5) RAHN GmbH

(2) BASF AG

(4) Evonik Nutrition & Care GmbH

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