

Formulation Example

SW 28-31 Sun Oil Spray Golden Shield

Ingredients	Art. No.	INCI EU (INCI US)	[%]
A			
Eusolex® OCR	1.05377 (1)	OCTOCRYLENE	9.50
Eusolex® 2292	1.05382 (1)	ETHYLHEXYL METHOXYCINNAMATE (OCTINOXATE)	8.55
Eusolex® HMS	1.11412 (1)	HOMOSALATE	8.55
Eusolex® 9020	1.05844 (1)	BUTYL METHOXYDIBENZOYLMETHANE (AVOBENZONE)	4.70
Eusolex® OS	1.06949 (1)	ETHYLHEXYL SALICYLATE (OCTISALATE)	4.30
Oxyhex® ST Liquid	1.30217 (1)	DIETHYLHEXYL SYRINGYLIDENEMALONATE, CAPRYLIC/CAPRIC TRIGLYCERIDE	2.80
RonaCare® Bisabolol nat.	1.30170 (1)	BISABOLOS	0.20
Cetiol CC	(2)	DICAPRYLYL CARBONATE	7.60
FINSOLV TPP	(3)	DIPROPYLENE GLYCOL DIBENZOATE, PPG-15 STEARYL ETHER BENZOATE, C12-15 ALKYL BENZOATE	2.80
Tinosorb® S	(4)	BIS-ETHYLHEXYLOXYPHENOL METHOXYPHENYL TRIAZINE (NOT REGISTERED)	1.90
B			
Ethanol 99%		ALCOHOL	42.63
Dermacryl 79	(5)	ACRYLATES/OCTYLACRYLAMIDE COPOLYMER	1.42
C			
Aerosil® R 812 S		SILICA Silylate	5.00
D			
Colorona® Sun Gold Sparkle MP-29	1.17223 (1)	MICA, CI 77891 (TITANIUM DIOXIDE), CI 77491 (IRON OXIDES)	0.05

Procedure:

Mix all ingredients in phase A, add a stir bar, and heat to 80°C until completely dissolved. Mix phase B, stirring continuously. (used anhydrous ethanol, 99.5%, water less than 50ppm). Cool phase A to room temperature, then add phase B while stirring until thoroughly mixed. Add phase C, disperse well by homogenizer or speed mixer. Add phase D, disperse well.

Notes:

Appearance: light yellow oil.
 Stability: The pearlescent pigment may settle slightly; Shake before use.
 In-vitro SPF: 201.1
 UVA-PF: 162.7
 Critical wavelength: 377nm
 Viscosity: 150 mPa s (Brookfield HELIPATH, S93, 20rpm) at 23°C.

Suppliers:

(1) Susonity Commercial GmbH, Germany and/or its affiliates
 (3) Innospec
 (5) Akzo Nobel Chemicals GmbH

(2) Croda
 (4) BASF AG

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