

# Formulation Example

## MDA-S-091-03 Light Protection Fluid in vivo SPF 26.9 (ISO24444:2010), UVA

Ingredients	Art. No.	INCI EU (INCI US, if different)	[%]
<b>A</b>			
Eusolex® T-EASY	1.05338 (1)	TITANIUM DIOXIDE (NANO) ( <i>TITANIUM DIOXIDE</i> ), SILICA, CETYL PHOSPHATE	5.00
Eusolex® OCR	1.05377 (1)	OCTOCRYLENE	7.00
Eusolex® 9020	1.05844 (1)	BUTYL METHOXYDIBENZOYLMETHANE ( <i>AVOBENZONE</i> )	2.50
Eusolex® HMS	1.11412 (1)	HOMOSALATE	2.00
RonaCare® AP	1.30163 (1)	BIS-ETHYLHEXYL HYDROXYDIMETHOXY BENZYL MALONATE	1.00
Polyaldo 10-1-0	(2)	POLYGLYCERYL-10 OLEATE	3.00
Dub™ DNPG	(2)	NEOPENTYL GLYCOL DIHEPTANOATE	5.00
Myritol® 331	(3)	COCOGLYCERIDES	2.50
<b>B</b>			
RonaCare® Ectoin	1.30200 (1)	ECTOIN	0.30
Complexing agent (q.s.)			0.10
Glycerol 85%		GLYCERIN, AQUA ( <i>WATER</i> )	5.00
Avicel PC 611	(2)	MICROCRYSTALLINE CELLULOSE, CELLULOSE GUM	1.00
Water, demineralized		AQUA ( <i>WATER</i> )	ad 100
<b>C</b>			
Eusolex® 232 USC	1.32429 (1)	PHENYLBENZIMIDAZOLE SULFONIC ACID ( <i>ENSULIZOLE</i> )	1.00
Neutralizing agent (q.s.)			0.50
Water, demineralized		AQUA ( <i>WATER</i> )	8.00
<b>D</b>			
SDA 40B		DENAT. ALCOHOL	4.00
Preservatives		PRESERVATIVES	q.s.
Fragrance		PARFUM ( <i>FRAGRANCE</i> )	q.s.

### Procedure:

Combine phase A and B separately and heat to 70°C. Disperse Eusolex® T-Easy in phase A. Add phase B to phase A without stirring. Homogenize. Add the preneutralized phase C to A/B while gently stirring. Add D below 40°C, adjust pH to 7 if necessary. Cool down while stirring.

### Notes: Not allowed in US/Canada

Appearance: off-white liquid (O/W)

pH value (23°C): 7.0

Viscosity: <500 mPa s (Brookfield RV II+, spindle B, 100rpm) at 23°C

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

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**Suppliers:**

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

(2) Azelis Germany GmbH

(3) BASF AG

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