

**30/CDSUN 4924/03  
Sunscreen Spray (O/W), SPF 25\*, water resistant\*\*, with broad UVA Protection  
(UVA/UVB Balance\*\*\*)**

<b>Ingredients</b>	<b>INCI-Name</b>	<b>% w/w</b>	<b>SUPPLIERS</b>
<b>PHASE A</b>			
<b>Dracorin 100 S.E.P. (618240)</b>	Glyceryl Stearate, PEG-100 Stearate	0,200	Symrise GmbH & Co. KG
<b>Dracorin GMS (647834)</b>	Glyceryl Stearate	0,200	Symrise GmbH & Co. KG
Tegosoft TN	C12-15 Alkyl Benzoate	3,000	Degussa-Goldsch midt AG, Germany
Vitamin E Acetate	Tocopheryl Acetate	0,500	DSM Nutritional Products, CH
<b>Dragoxat 89 (109854)</b>	Ethylhexyl Isononanoate	2,000	Symrise GmbH & Co. KG
Unimer U-151	VP/Hexadecene Copolymer	0,500	Induchem AG, Switzerland
Dow Corning 246 Fluid	Cyclohexasiloxane	2,000	Dow Corning GmbH, Germany
<b>Neo Heliopan 357 (622501)</b>	Butyl Methoxydibenzoylmet hane	3,000	Symrise GmbH & Co. KG
<b>Neo Heliopan 303 (600154)</b>	Octocrylene	8,000	Symrise GmbH & Co. KG
<b>Neo Heliopan HMS (182573)</b>	Homosalate	5,000	Symrise GmbH & Co. KG
Edeta BD	Disodium EDTA	0,100	BASF AG, Germany
Keltrol T	Xanthan Gum	0,100	CP-Kelco, Germany
Carbopol ETD 2050	Carbomer	0,100	Noveon, Belgium
<b>PHASE B</b>			
Water	Water (Aqua)	46,670	
<b>Emulsiphos (677660)</b>	Potassium Cetyl Phosphate, Hydrogenated Palm Glycerides	0,500	Symrise GmbH & Co. KG
Glycerin 99,5 P.	Glycerin	3,000	
<b>Dragocide Liquid (660079)</b>	Phenoxyethanol, Methylparaben, Ethylparaben, Butylparaben, Propylparaben, Isobutylparaben	0,700	Symrise GmbH & Co. KG
<b>Neo Heliopan AP (106796) used as a 10% solution neutralized with sodium hydroxide</b>	Disodium Phenyl Dibenimidazole Tetrasulfonate	10,000	Symrise GmbH & Co. KG
<b>Neo Heliopan Hydro (103089), used as a 15% aq solution</b>	Phenylbenzimidazole Sulfonic Acid	13,330	Symrise GmbH & Co. KG

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neutralized with sodium hydroxide

**PHASE C**

Sodium Hydroxide 10% solution	Sodium Hydroxide	0,700	
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**PHASE D**

<b>Fragrance</b>	Parfum	0,300	Symrise GmbH & Co. KG
<b>(-)-Alpha-Bisabolol Natural (660338)</b>	Bisabolol	0,100	Symrise GmbH & Co. KG

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**Production Method**

Part A: Heat up to 80°C (without Keltrol an Carbopol) until all ingredients are completely dissolved. Add Keltrol and Carbopol and homogenise for a minute (Ultra-Turrax).

Part B: Weight all ingredients of part B and heat up to 80°C. Then add part B to part A.

Part C: Add part C directly to part A/B. Homogenise for 3 minutes (Ultra-Turrax).

Part D: Add at 25°C.

The pH value of the finished product should be approx. 7.5 and has to be checked.

Preparation of the 10 % Neo Heliopan AP solution:

79.00 % Water, demineralised  
 10.00 % Neo Heliopan AP (106796)  
 approx. 11.00 % Sodium hydroxide, 10 % aq.

Dissolve two thirds of sodium hydroxide solution in water. Then add with stirring Neo Heliopan AP. Slowly add the rest of sodium hydroxide solution until the solution becomes clear. The pH value of the finished Neo Heliopan AP solution should be 7.0 - 8.0 and has to be checked. If you don't need all sodium hydroxide complete to 100% with water. For longer time of storage it is advisable to add preservatives (eg Parabens) to the solution.

(For example: 22% of the 10 % Neo Heliopan AP solution neutralised with sodium hydroxide equals 2,2% active.)

Preparation of the 15 % Neo Heliopan Hydro solution:

82.85 % Water, demineralised  
 02.15 % Sodium Hydroxide, 99 %  
 15.00 % Neo Heliopan Hydro (103089)

Dissolve two thirds of sodium hydroxide in water. Then add with stirring Neo Heliopan Hydro. Add the rest of sodium hydroxide until the solution becomes clear. The pH value of the finished Neo Heliopan Hydro solution should be 7.5 - 8.0 and has to be checked. For longer time of storage it is advisable to add preservatives (eg

