

Care
Creations™

Dermawhite™ WF

New: Including new results with soap bars



 **BASF**
We create chemistry

Dermawhite™ WF

- 1 | **Skin lightening cosmetics**
- 2 | **The white flowers**
- 3 | ***In vitro* tests**
- 4 | ***In vivo* tests**
- 5 | **Product characteristics**
- 6 | **Example formulations**

Whiteness at a high price

Over-promising products containing partly **questionable ingredients** such as α -hydroquinone, steroids and mercury compounds.



Need for **safe and affordable** cosmetic ingredients

Dermawhite™ WF

1 | Skin lightening cosmetics

2 | **The white flowers**

3 | *In vitro* tests

4 | *In vivo* tests

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6 | Example formulations

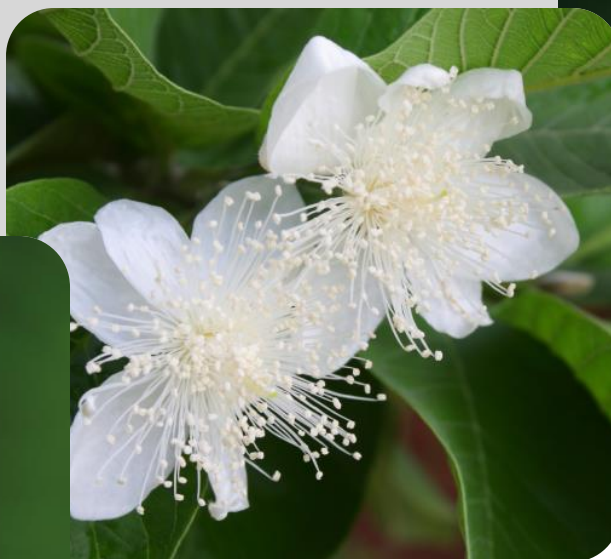
Dermawhite™ WF

Three white flowers for white skin

BASF
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Psidium Guajava
Fruit extract



Saxifraga Sarmentosa
Extract of entire plant



Carica Papaya
Fruit extract

Dermawhite™ WF

1 | Skin lightening cosmetics

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3 | ***In vitro* tests**

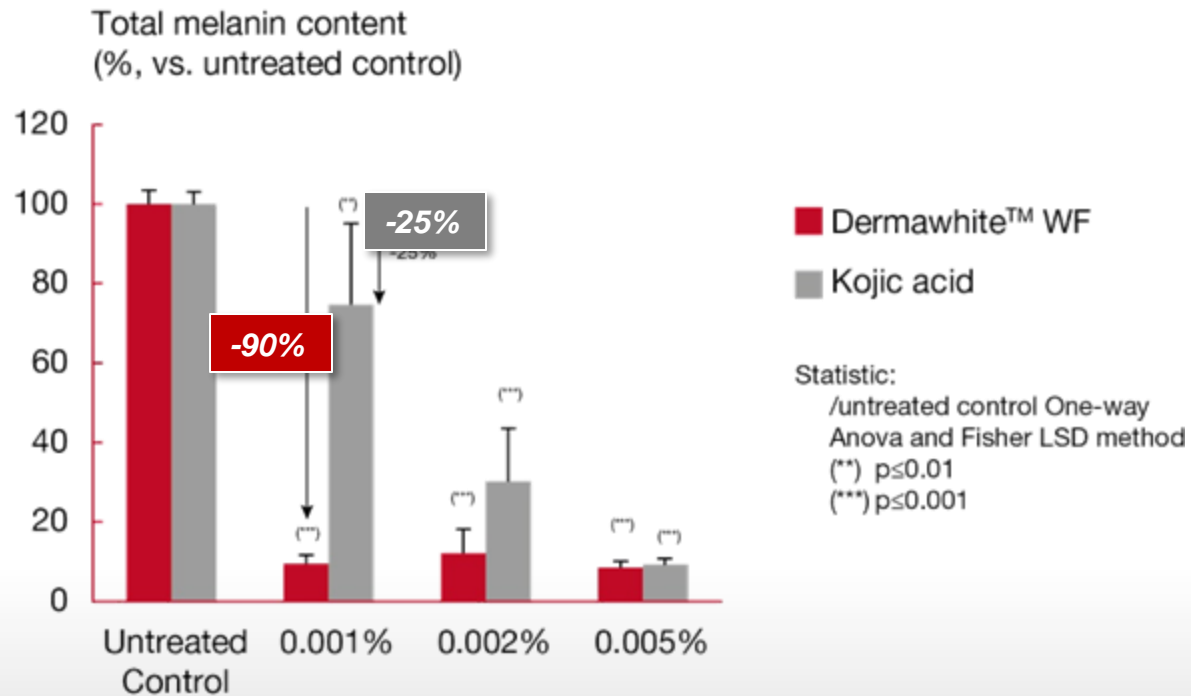
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Dermawhite™ WF

Melanin synthesis (*in vitro*)



**0.001 % Dermawhite™ WF inhibits 90 % of melanin synthesis.
Dermawhite™ WF is more than 3 times more effective than kojic acid.**

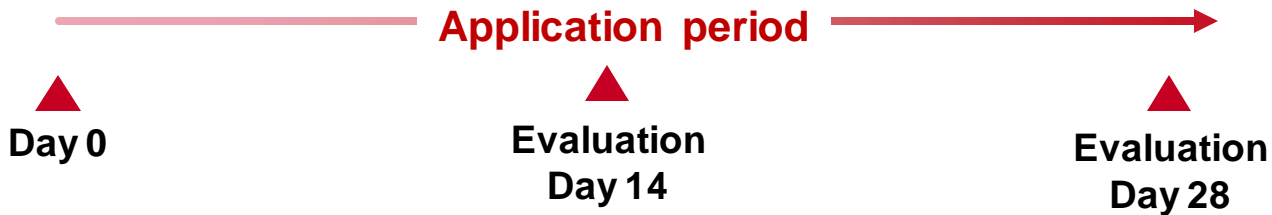
B16 melanocytes; 72 hrs incubation; measurement of total melanin via optical density at 475 nm

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Dermawhite™ WF

Clinical study with soap bar – Protocol



Volunteer panel

- 33 Indian/Asian females
- 30 to 60 years old
- Phototype IV to V

Test product

- Bar soap
+ 1,5% Dermawhite™ WF

Application

- Face wash twice daily
- Neck wash with water only (reference area)

Instrumental evaluation

- Chromametry
- Measurement of luminance L^* and ITA° on the cheekbones and on the neck (reference area for normalization of instrumental results)
- Calculation of ΔL and ΔITA

Subjective evaluation

- Evaluation by volunteers

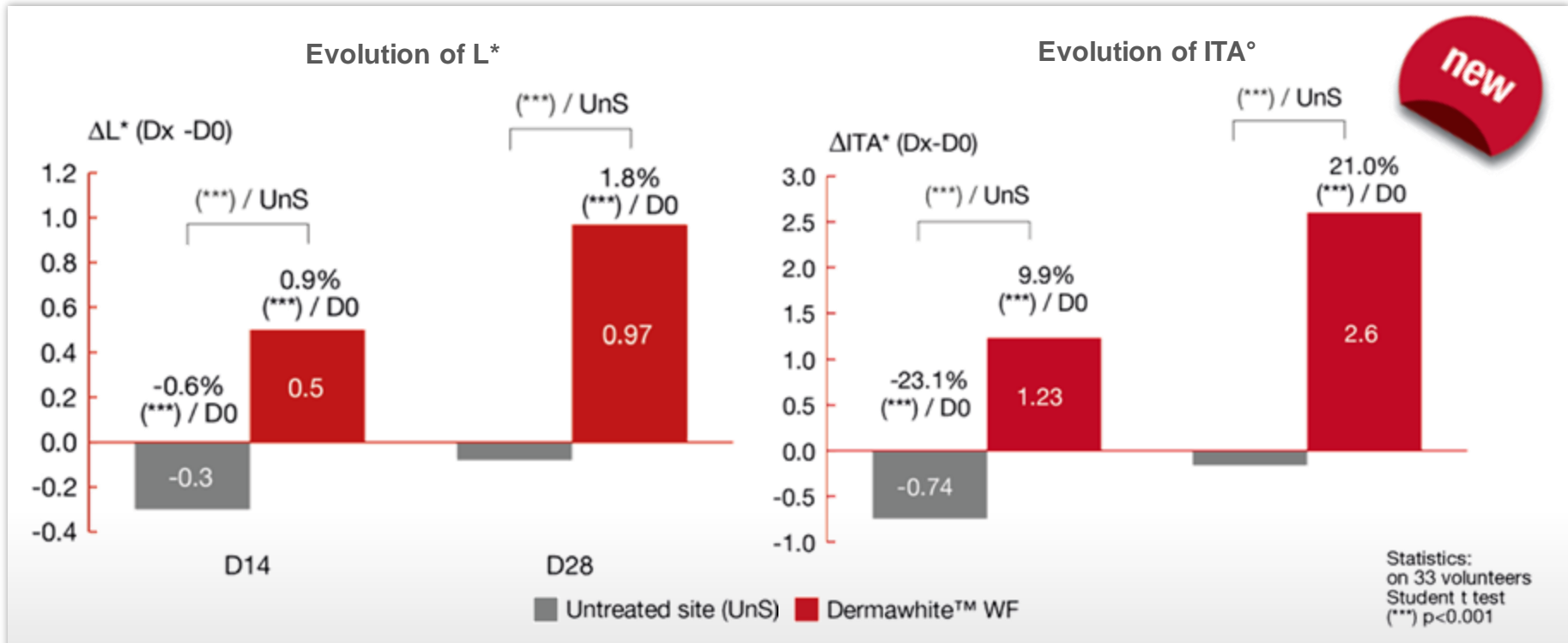
Dermawhite™ WF

Clinical study with soap bar – Test formulation

Trade Name	INCI Name	%
Soap Noodles	Sodium stearate, Sodium Palmate, Sodium cocoate	93,95
Glycerine	Glycerol	1,50
Edeta™ BD	Disodium EDTA	0,07
Eutanol™ G	Octyldodecanol	0,5
Plantacare™ 2000	Decyl glucoside	1,0
Salcare™ SC 91	Sodium acrylates copolymer	0,1
Colorant	CI colour 12740	0,002
Colorant	CI colour 12150	0,001
Colorant	CI colour 61565	0,0021
Irgacare™ MP	Triclosan	0,128
Tinogard™ TT	Pentaerythryl Tetra-di-t-butyl Hydroxyhydrocinnamate	0,048
Fragrance	Perfume	1,2
Dermawhite™ WF	Water (and) Tartaric Acid (and) Disodium EDTA (and) Sodium Sulfite (and) Sodium Metabisulfite (and) Glycerin (and) Butylene Glycol (and) Saxifraga Sarmentosa Extract (and) Carica Papaya (Papaya) Fruit Extract (and) Psidium Guajava Fruit Extract	1,5

Dermawhite™ WF

Clinical study with soap bar – Chromametry

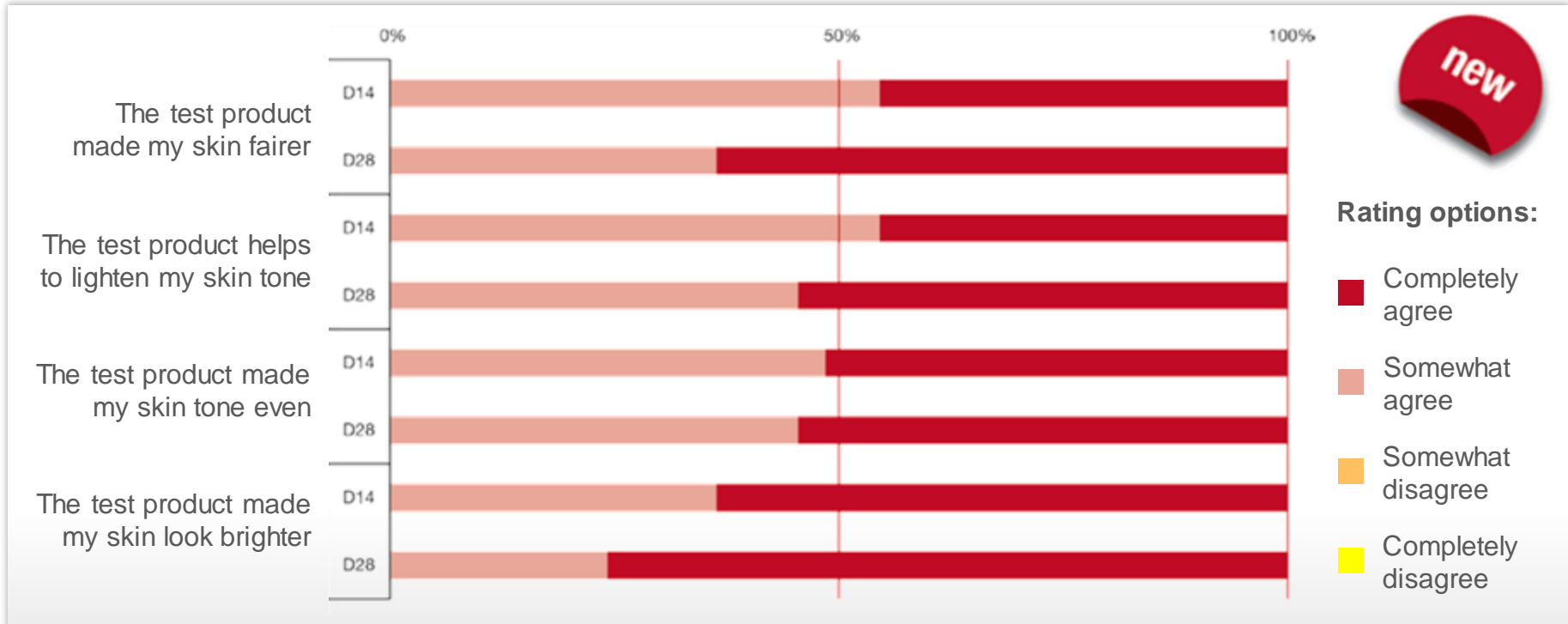


After 14 days, skin became significantly lighter than the untreated area. This effect doubled after another 14 days of treatment.

33 Indian/Asian females between 30 and 60 years old, phototype IV and V, twice daily bar soap wash, chromametry.

Dermawhite™ WF

Clinical study with soap bar – Volunteer evaluation



The entire volunteer panel noticed a skin lightening effect after 2 weeks of treatment, becoming even more obvious after 4 weeks of treatment.

33 Indian/Asian females between 30 and 60 years old, phototype IV and V, twice daily bar soap wash, volunteers' self-assessment.

Dermawhite™ WF

Clinical study with soap bar – Demonstrative image



ΔL^* : 2.4
 ΔITA° : 5.8

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Dermawhite™ WF Formulation

Dermawhite™ WF

Product as is



**2% Dermawhite™ WF
in an emulsion**

**2% Dermawhite™ WF
in a hydrogel**



**1.5% Dermawhite™ WF
in a bar soap**

Little or no impact on formulation color and odor; stable in pH range above 6.7

Dermawhite™ WF

Technical data



Description:

Combination of extracts of white blooming plants *Saxifraga Sarmientosa*, *Psidium Guajava*, *Carica Papaya* and additional additives

INCI Name (EU/US):

Water/Aqua (and) Tartaric Acid (and) Disodium EDTA (and) Sodium Sulfite (and) Sodium Metabisulfite (and) Glycerin (and) Butylene Glycol (and) *Saxifraga Sarmientosa* Extract (and) *Carica Papaya* (Papaya) Fruit Extract (and) *Psidium Guajava* Fruit Extract

Dose of use:

1,5 to 2 %

Aspect:

Syrupy liquid, colorless to pale yellow

Shelf life:

18 months

Preservatives:

Sodium Sulfite, Sodium Metabisulfite

Dermawhite™ WF

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Dermawhite™ WF

Whitening Lotion SC-ES-15-1409-1



Phase	Ingredients	INCI	% by weight	Function
A	Eumulgin® Prisma	Disodium Cetearyl Sulfosuccinate	0.30	Emulsifier (O/W)
	Lanette® O	Cetearyl Alcohol	3.00	Consistency agent
	Cetiol® C 5	Coco-Caprylate	3.00	Emollient
	Cetiol® RLF	Caprylyl Caprylate/ Caprate	2.00	Emollient
	Myritol® 331	Cocoglycerides	2.00	Emollient
	Eutanol® G	Octyldodecanol	2.00	Emollient
B	Water, demin.	Aqua	76.60	
	Glycerin	Glycerin	5.00	Humectant
	Cosmedia® SP	Sodium Polyacrylate	0.60	Rheology modifier
	Rheocare® C Plus	Carbomer	0.20	Rheology modifier
	Euxyl PE 9010 (Schülke)	Phenoxyethanol, Ethylhexylglycerin	1.00	Preservative
	Sodium Hydroxide (25% solution)	Sodium Hydroxide	q.s.	pH Adjustment
	Fragrance	Parfum	0.30	Fragrance
C	Dermawhite™ WF	Water, Tartaric Acid, Disodium EDTA, Sodium Sulfite, Sodium Metabisulfite, Glycerin, Butylene Glycol, Saxifraga Sarmientosa Extract, Carica Papaya (Papaya) Fruit Extract, Psidium Guajava Fruit Extract	2.00	Active ingredient
D	Chione™ HD Crisp Gold S230V	Synthetic Fluorphlogopite, Titanium Dioxide	1.00	Effect pigment
	Chione™ HD Digital Pink S430V	Synthetic Fluorphlogopite, Titanium Dioxide	1.00	Effect pigment

Dermawhite™ WF

Brightening Lotion SPF 15 SC-ES-15-1409-17



Phase	Ingredients	INCI	% by weight	Function
A	Water, demin.	Aqua	67.20	
	Euxyl PE 9010 (Schülke)	Phenoxyethanol, Ethylhexylglycerin	1.00	Preservative
	Edeta® BD	Disodium EDTA	0.05	Complexing agent
	Glycerin	Glycerin	5.00	Humectant
	Rheocare® C Plus	Carbomer	0.25	Rheology modifier
	Sodium Hydroxide (25% solution)	Sodium Hydroxide	q.s.	pH Adjustment
	Cosmedia® SP	Sodium Polyacrylate	1.00	Rheology modifier
B	Uvinul® Easy	Dibutyl Adipate, Diethylamino Hydroxybenzoyl Hexyl Benzoate, Ethylhexyl Methoxycinnamate, Laureth-7 Citrate, Polyglyceryl-2 Dipolyhydroxystearate, Ethylhexyl Triazone, Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine, Lauryl Glucoside, Triethanolamine	15.00	
	Cetiol® C 5	Coco-Caprylate	3.00	Emollient
	Cetiol® RLF	Caprylyl Caprylate/ Caprate	3.00	Emollient
C	Dermawhite™ WF	Water, Tartaric Acid, Disodium EDTA, Sodium Sulfite, Sodium Metabisulfite, Glycerin, Butylene Glycol, Saxifraga Sarmientosa Extract, Carica Papaya (Papaya) Fruit Extract, Psidium Guajava Fruit Extract	2.00	Active ingredient
D	Fragrance	Parfum	0.50	Fragrance
	Chione™ HD Crisp Gold S230V	Synthetic Fluorphlogopite, Titanium Dioxide	1.00	Effect pigment
	Chione™ HD Digital Pink S430V	Synthetic Fluorphlogopite, Titanium Dioxide	1.00	Effect pigment

Dermawhite™ WF

Whitening Lotion SC-ES-15-1409-4



Phase	Ingredients	INCI	% by weight	Function
A	Eumulgin® Prisma	Disodium Cetearyl Sulfosuccinate	0.20	Emulsifier (O/W)
	Emulgade® Sucro	Sucrose Polystearate, Hydrogenated Polyisobutene	1.20	Emulsifier (O/W)
	Lanette® O	Cetearyl Alcohol	3.00	Consistency agent
	Cetiol® C 5	Coco-Caprylate	3.00	Emollient
	Cetiol® RLF	Caprylyl Caprylate/ Caprate	2.00	Emollient
	Myritol® 331	Cocoglycerides	2.00	Emollient
	Eutanol® G	Octyldodecanol	2.00	Emollient
	B	Water, demin.	Aqua	75.40
Glycerin		Glycerin	5.00	Humectant
Cosmedia® SP		Sodium Polyacrylate	0.60	Rheology modifier
Rheocare® C Plus		Carbomer	0.10	Rheology modifier
Euxyl PE 9010 (Schülke)		Phenoxyethanol, Ethylhexylglycerin	1.00	Preservative
Sodium Hydroxide (25% solution)		Sodium Hydroxide	q.s.	pH Adjustment
Fragrance		Parfum	0.50	Fragrance
C	Dermawhite™ WF	Water, Tartaric Acid, Disodium EDTA, Sodium Sulfite, Sodium Metabisulfite, Glycerin, Butylene Glycol, Saxifraga Sarmentosa Extract, Carica Papaya (Papaya) Fruit Extract, Psidium Guajava Fruit Extract	2.00	Active ingredient
D	Chione™ HD Crisp Gold S230V	Synthetic Fluorphlogopite, Titanium Dioxide	1.00	Effect pigment
	Chione™ HD Digital Pink S430V	Synthetic Fluorphlogopite, Titanium Dioxide	1.00	Effect pigment

Dermawhite™ WF

Whitening Lotion SC-ES-15-1409-6



Phase	Ingredients	INCI	% by weight	Function
A	Eumulgin® Prisma	Disodium Cetearyl Sulfosuccinate	0.20	Emulsifier (O/W)
	Lameform® TGI	Polyglyceryl-3 Diisostearate	1.50	Emulsifier (W/O)
	Lanette® O	Cetearyl Alcohol	3.00	Consistency agent
	Cetiol® C 5	Coco-Caprylate	3.00	Emollient
	Cetiol® RLF	Caprylyl Caprylate/ Caprate	2.00	Emollient
	Myritol® 331	Cocoglycerides	2.00	Emollient
	Eutanol® G	Octyldodecanol	2.00	Emollient
B	Water, demin.	Aqua	75.10	
	Glycerin	Glycerin	5.00	Humectant
	Cosmedia® SP	Sodium Polyacrylate	0.60	Rheology modifier
	Rheocare® C Plus	Carbomer	0.10	Rheology modifier
	Euxyl PE 9010 (Schülke)	Phenoxyethanol, Ethylhexylglycerin	1.00	Preservative
	Sodium Hydroxide (25% solution)	Sodium Hydroxide	q.s.	pH Adjustment
	Fragrance	Parfum	0.50	Fragrance
C	Dermawhite™ WF	Water, Tartaric Acid, Disodium EDTA, Sodium Sulfite, Sodium Metabisulfite, Glycerin, Butylene Glycol, Saxifraga Sarmentosa Extract, Carica Papaya (Papaya) Fruit Extract, Psidium Guajava Fruit Extract	2.00	Active ingredient
D	Chione™ HD Crisp Gold S230V	Synthetic Fluorphlogopite, Titanium Dioxide	1.00	Effect pigment
	Chione™ HD Digital Pink S430V	Synthetic Fluorphlogopite, Titanium Dioxide	1.00	Effect pigment

Dermawhite™ WF

Whitening Lotion SC-ES-15-1409-7



Phase	Ingredients	INCI	% by weight	Function
A	Eumulgin® Prisma	Disodium Cetearyl Sulfosuccinate	0.20	Emulsifier (O/W)
	Cremophor® GS 32	Polyglyceryl-3 Distearate	1.50	Emulsifier (O/W)
	Lanette® O	Cetearyl Alcohol	3.00	Consistency agent
	Cetiol® C 5	Coco-Caprylate	3.00	Emollient
	Cetiol® RLF	Caprylyl Caprylate/ Caprate	2.00	Emollient
	Myritol® 331	Cocoglycerides	2.00	Emollient
	Eutanol® G	Octyldodecanol	2.00	Emollient
B	Water, demin.	Aqua	75.10	
	Glycerin	Glycerin	5.00	Humectant
	Cosmedia® SP	Sodium Polyacrylate	0.60	Rheology modifier
	Rheocare® C Plus	Carbomer	0.10	Rheology modifier
	Euxyl PE 9010 (Schülke)	Phenoxyethanol, Ethylhexylglycerin	1.00	Preservative
	Sodium Hydroxide (25% solution)	Sodium Hydroxide	q.s.	pH Adjustment
	Fragrance	Parfum	0.50	Fragrance
C	Dermawhite™ WF	Water, Tartaric Acid, Disodium EDTA, Sodium Sulfite, Sodium Metabisulfite, Glycerin, Butylene Glycol, Saxifraga Sarmentosa Extract, Carica Papaya (Papaya) Fruit Extract, Psidium Guajava Fruit Extract	2.00	Active ingredient
D	Chione™ HD Crisp Gold S230V	Synthetic Fluorphlogopite, Titanium Dioxide	1.00	Effect pigment
	Chione™ HD Digital Pink S430V	Synthetic Fluorphlogopite, Titanium Dioxide	1.00	Effect pigment

Dermawhite™ WF

Lightening Lotion SC-FR-15-007-D009



Phase	Ingredients	INCI	% by weight	Function
A	Water, demin.	Aqua	78.32	
	Glycerin	Glycerin	3.00	Humectant
	Euxyl K 320 <i>(Schülke)</i>	Phenoxyethanol, Methylparaben, Ethylparaben, Propylene Glycol	1.20	Preservative
B	Cutina® GMS-SE	Glyceryl Stearate SE	3.00	Emulsifier (O/W)
	Lanette® D	Cetearyl Alcohol	2.00	Consistency agent
	Cetiol® 868	Ethylhexyl Stearate	6.00	Emollient
	Cetiol® CC	Dicaprylyl Carbonate	3.00	Emollient
	Rheocare® XG (Europe only)	Xanthan Gum	0.10	Stabilizer
C	Eumulgin® SG	Sodium Stearoyl Glutamate	0.30	Emulsifier (O/W)
	Xiameter PMX-200 Silicone Fluid 50CS <i>(Dow Corning)</i>	Dimethicone	0.50	Defoamer
D	Dermawhite™ WF	Water, Tartaric Acid, Disodium EDTA, Sodium Sulfite, Sodium Metabisulfite, Glycerin, Butylene Glycol, Saxifraga Sarmentosa Extract, Carica Papaya (Papaya) Fruit Extract, Psidium Guajava Fruit Extract	2.00	Active ingredient
	Citric Acid (50% solution)	Citric Acid	0.08	Neutralizing agent
	Fragrance	Parfum	0.50	Fragrance

Dermawhite™ WF

Whitening Emulsion SC-FR-15-50701-02



Phase	Ingredients	INCI	% by weight	Function
A	Emulgade® SE-PF	Glyceryl Stearate, Ceteareth-20, Ceteareth-12, Cetearyl Alcohol, Cetyl Palmitate	7.00	Emulsion base
	Lanette® O	Cetearyl Alcohol	2.00	Consistency agent
	Isopropyl Myristate	Isopropyl Myristate	8.00	Emollient
	Cetiol® Sensoft	Propylheptyl Caprylate	2.00	Emollient
	Cetiol® CC	Dicaprylyl Carbonate	2.00	Emollient
	Xiameter PMX-200 Silicone Fluid 50CS (Dow Corning)	Dimethicone	1.00	Defoamer
	Covi-ox® T 70 C	Tocopherol	0.20	Antioxidant
B	Water, demin.	Aqua	69.55	
	Elestab™ 388	Propylene Glycol, Phenoxyethanol, Chlorphenesin, Methylparaben	2.50	Preservative
	1,3-Butanediol	Butylene Glycol	3.00	Humectant
	Edeta® BD	Disodium EDTA	0.05	Complexing agent
C	Rheocare® XG (Europe only)	Xanthan Gum	0.20	Rheology modifier
	Eumulgin® SG	Sodium Stearoyl Glutamate	0.50	Emulsifier (O/W)
D	Dermawhite™ WF	Water, Tartaric Acid, Disodium EDTA, Sodium Sulfite, Sodium Metabisulfite, Glycerin, Butylene Glycol, Saxifraga Sarmentosa Extract, Carica Papaya (Papaya) Fruit Extract, Psidium Guajava Fruit Extract	2.00	Active ingredient

Dermawhite™ WF

Maschera anti macchia SC-IT-16-002-2



Phase	Ingredients	INCI	% by weight	Function
A	Water, demin. Cosmedia® SP	Aqua Sodium Polyacrylate	85.25 1.50	 Rheology modifier
B	Eumulgin® SG Cetiol® CC Dermawhite™ WF	Sodium Stearoyl Glutamate Dicaprylyl Carbonate Water, Tartaric Acid, Disodium EDTA, Sodium Sulfite, Sodium Metabisulfite, Glycerin, Butylene Glycol, Saxifraga Sarmentosa Extract, Carica Papaya (Papaya) Fruit Extract, Psidium Guajava Fruit Extract	0.05 10.00 2.00	 Emulsifier (O/W) Emollient Active ingredient
	Euxyl PE 9010 (Schülke)	Phenoxyethanol, Ethylhexylglycerin	0.80	Preservative
	Perfume*	Parfum	0.40	Fragrance



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