

UV Blocking Protector

S-2001-02

DESCRIPTION

This rich sun cream gives broad UV protection using inorganic sunscreen filters, with a predicted SPF of 20.

ADVANTAGES

BENTONE® LUXE WN provides body and stability of the UV filters, while performing as the only emulsifier in the system.

SPECIFICATIONS

Viscosity: Spindle 7, 100 rpm, 4960 cps

Appearance: Thick white cream

Phase	Ingredient	Supplier	%w/w
A	Dicaprylyl Carbonate (Cetiol CC)	BASF	35.90
	Caprylic/Capric Triglyceride (and) Stearalkonium Hectorite (and) Polyglyceryl-3 Diisostearate (and) Polyglyceryl-3 Polyricinoleate (BENTONE® LUXE WN)	Elementis	15.00
	Perfume (Sportive)	Spinrad	0.10
B	Zinc Oxide (and) Triethoxycaprylylsilane (Z-Cote HP-1)	BASF	10.00
	Titanium Dioxide (and) Silica (and) Dimethicone (Parsol TX)	DSM	7.50
C	Deionized Water		30.00
	Phenoxyethanol (and) Ethylhexylglycerin (Euxyl PE9010)	Schulke & Meyer	1.00
	Magnesium Sulfate Heptahydrate		0.50

Procedure:

1. Combine Phase A with stirring until uniform.
2. Add Phase B to Phase A with Silverson homogenizing for 10 minutes.
3. Combine Phase C and mix until dissolved.
4. Slowly add Phase C to Phase A/B with propeller mixing until uniform.

Reference:102-128

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V01 March 2019

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Daily Skin Defense Lotion

S-2009-02

DESCRIPTION

This inorganic sunscreen makes a great base for under make-up. It has a calculated SPF of 10 and delivers FDA Broad UVA protection.

ADVANTAGES

BENTONE GEL® TN V improves viscosity and texture, while improving water resistancy and boosting SPF.

SPECIFICATIONS

Viscosity: DVII, Spindle 6, 20 rpm, 6000 cP

Appearance: White Lotion

Phase	Ingredient	Supplier	%w/w
A	Dicaprylyl Carbonate (Cetiol CC)	BASF	20.00
	Dimethicone (KF96L-2cs)	Shin Etsu	8.90
	C12-15 Alkyl Benzoate (and) Stearalkonium Hectorite (and) Propylene Carbonate (BENTONE GEL® TN V)	Elementis	8.00
	Cetyl PEG/PPG-10/1 Dimethicone (Abil EM 90)	Evonik	2.20
	Polyglyceryl-3 Oleate (Isolan GO 33)	Evonik	2.00
B	Zinc Oxide (and) Triethoxycaprylylsilane (Z-Cote HP1)	BASF	10.00
	Titanium Dioxide (and) Silica (and) Dimethicone (Parsol TX)	DSM	2.00
C	Deionized Water		42.40
	Propylene Glycol (1,3-Propanediol)	Alfa Aesar	3.00
	Phenoxyethanol (and) Ethylhexylglycerin (Euxyl PE 9010)	Schuelke & Mayr	1.00
	Sodium Chloride		0.50

Procedure:

1. Combine Phase A and mix until uniform using a Silverson homogenizer.
2. Add Phase B to Phase A and mix on a Silverson homogenizer for 10 minutes until completely uniform.
3. Premix Phase C then add to Phase A/B slowly using a Silverson homogenizer. Continue mixing for about 5 minutes.

Reference:102.-144

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Daily UV Protecting Lotion

S-1000-01

DESCRIPTION

A light water-in-silicone sunscreen lotion with broad spectrum protection.

ADVANTAGES

RHEOLUXE® 8015 increases the viscosity, provides even, rich application and may increase film thickness.

SPECIFICATIONS

Viscosity: RV. Spindle T-E. 20rpm
25,000-30,000 cps

Appearance: White Cream

Phase	Ingredient	Supplier	%w/w
A	Cyclopentasiloxane (and) Titanium Dioxide (and) Polyglyceryl-3 Polydimethylsiloxyethyl Dimethicone (and) Aluminum Hydroxide (and) Stearic Acid (SPD-T5)	Shin Etsu	20.00
	Zinc Oxide (and) Cyclopentasiloxane (and) Polyglyceryl-3 Polydimethylsiloxyethyl Dimethicone (and) Triethoxysilylethyl Polydimethylsiloxyethyl Hexyl Dimethicone (SPD-Z5)	Shin Etsu	10.00
	C12-15 Alkyl Benzoate (Finsolv TN)	Innospec	8.00
	Lauryl PEG-9 Polymethylsiloxyethyl Dimethicone (KF-6038)	Shin Etsu	3.00
	Crambe Abyssinica Seed Oil (and) Butyrospermum Parkii (Shea Butter) Extract (FANCOL® ABYSHEA)	Elementis	2.00
	Beeswax		1.00
B	Deionized Water		52.00
	Glycerin		3.00
	Phenoxyethanol (and) Benzoic Acid (and) Dehydroacetic Acid (and) Ethylhexylglycerin (Euxyl K701)	Schulke & Mayr	1.00
	Sodium Chloride		0.50
C	PEG/PPG-450/50 Trimethylolpropane Dodecyl Ether (RHEOLUXE® 8015)	Elementis	1.50

Procedure:

1. Heat Phase A to 60°C with propeller mixing.
2. Combine Phase B and mix until uniform. Heat to 60°C.
3. Very slowly add Phase B to Phase A with moderate speed propeller mixing.
4. Cool to room temperature with slow sweep mixing.

Reference: BY-3170-46B

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Maui Milk

S-2011-02

DESCRIPTION

This lotion applies lightly to the skin giving protection from the sun. In-Vivo SPF 15. Globally approved and reef safe.

ADVANTAGES

BENTONE GEL® HS V provides stability, enhances application, boosts SPF and improves water resistancy.

SPECIFICATIONS

Viscosity: DV-II. Spindle 6, 50rpm
3900 cP

Appearance: White, shiny lotion

Phase	Ingredient	Supplier	%w/w
A	Homosalate (Eusolex HMS)	Merck	12.00
	Ethylhexyl Salicylate (Eusolex OS)	Merck	5.00
	Octocrylene (Eusolex OCR)	Merck	2.00
	Dicaprylyl Carbonate (Cetiol CC)	BASF	1.50
	Butyl Methoxydibenzoylmethane (Eusolex 9020)	Merck	1.40
B	C13-15 Alkane (and) Disteardimonium Hectorite (and) Alcohol (BENTONE GEL® HS V)	Elementis	7.50
	Dimethicone (KF-96L-2CS)	Shin Etsu	6.80
	Isoamyl Laurate (Jolee 7750)	Oleon	2.50
	Cetyl PEG/PPG-10/1 Dimethicone (Abil EM 180)	Evonik	2.00
	Synthetic Flourphlogopite (MiyosYN Matte-SA)	Miyoshi Kasei	1.00
C	Deionized Water		50.00
	Dimethicone/Vinyl Dimethicone Crosspolymer (and) Silica (and) Butylene Glycol (Dowasil EP 9801 Hydro Cosmetic Powder)	Dow	2.00
	Propanediol (1,2-Propanediol)	VWR	2.00
	Sodium Chloride		0.50
	Ethanol		5.00
D	Phenoxyethanol (and) Ethylhexylglycerin (Euxyl PE 9010)	Schülke Mayr	1.00
	Fragrance (Morning Splash)	Spinnrad	0.20

Procedure:

1. Combine Phase A and heat to 75°C with stirring until clear.
2. Add Phase B to A and homogenize until uniform.
3. Begin cooling.
4. Combine Phase C and stir until uniform.
5. Add Phase C slowly to Phase A/B with propeller mixing and homogenize shortly when completely combined.
6. Add Phase D with propeller mixing.
7. Homogenize briefly and pack off.

Reference:108-19

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Organic Sunscreen with BENTONE GEL[®] PTIS V

KR9/096

ELEMENTIS

SPECIALTIES

Description

Organic Suncream containing BENTONE GEL[®] PTIS V, rheological additive.

Advantages

The presence of BENTONE GEL[®] PTIS V, rheological additive in this system:

- Gives body, yet allows easy and even distribution, due to the thixotropic nature
- Produces a stable emulsion at increased temperatures
- Reinforces emulsion stability, and improves storage stability
- Enhances SPF to an in-vitro SPF of 30.32 +/- 4.06

Phase	Ingredient	Supplier	%w/w
A	Pentaerythrityl Tetraisostearate (and) Distearidimonium Hectorite (and) Propylene Carbonate	ELEMENTIS Specialties	3.00
	BENTONE GEL[®] PTIS V		
	Cetearyl Alcohol and Ceteareth-20 (Cosmowax EM5483 PAST)	Croda	7.50
	Ethylhexyl Methoxycinnamate and BHT (Eusolex 2292)	Merck	7.50
	Glyceryl Stearate and PEG-100 Stearate (Cithrol GMS A/S PAST)	Croda	7.00
	Caprylic/Capric Triglyceride (Tegosoft CT)	Evonik	6.00
	C ₁₂₋₁₅ Alkyl Benzoate (Tegosoft TN)	Evonik	4.00
	Benzophenone-3 (Eusolex 4360)	Merck	3.00
B	Water		57.90
C	Propylene Glycol		4.00
	Phenoxyethanol (Phenoxetol)	Clariant	0.10



Procedure:

1. Heat Phase A together to 75°C.
2. Heat Phase B together to 75°C.
3. Using high shear mixing (e.g. Silverson homogeniser), slowly add Phase A to Phase B.
4. Continue to mix for several minutes.
5. Transfer to propeller stirrer and commence cooling.
6. Under 35°C add Phase C.
7. Mix until uniform.

Specifications:

Appearance:	White Cream
pH:	6.80
Viscosity:	RV Spindle 7 @ 10 rpm 130,000 cP
Stability:	3 months at 40°C

For more details please contact:

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Perfect Peach Protector

S-2007-02

DESCRIPTION

This peachy daily skin cream has a predicted SPF of 15 and PA++. It is approved in Australia, China, Europe, Japan and Mercosur.

ADVANTAGES

BENTONE HYDROCLAY™ 2000 creates body and leaves a non-sticky application when applied to the skin. It also improves the thermostability of the cream, preventing phase separation in extreme conditions.

MEADOWESTOLIDE® has been proved to improve the moisture barrier of the skin.

SPECIFICATIONS

Appearance: Thick, peach colored cream

Viscosity: DV-II, Spindle 7. 50 rpm, 20.000 cP

pH: 6.3

Phase	Ingredient	Supplier	%w/w
A	Propandiol (1,2-Propandiol)	VWR	4.00
	Hectorite (BENTONE HYDROCLAY™ 2000)	Elementis	2.00
B	Deionized Water		61.90
	Dimethicone/Vinyl Dimethicone Crosspolymer (and) Silica (and) Butylene Glycol (Dowsil EP 9801 Hydro Cosmetic Powder)	Dow	2.00
	Phenoxyethanol (and) Ethylhexylglycerin (Euxyl PE 9010)	Schülke Mayr	1.00
	CI 15510 (D&C Orange No. 4 SunCroma C76-7393 1% Solution in Water)	Sun Chemical	0,40
	C12-15 Alkyl Benzoate (Finsolv TN)	Innospec	6.00
C	Ethylhexyl Methoxycinnamate (Eusolex 2292)	Merck	5.50
	Diethylamino Hydroxybenzoyl Hexylbenzoate (Uvinul A Plus Granular)	BASF	3.00
	Cetearyl Alcohol (Tego Alkanol 1618)	Evonik	3.00
	Octocrylene (Eusolex OCR)	Merck	2.80
	Glyceryl Stearate Citrate (Axol C62 Pellets)	Evonik	2.00
	Dimethicone (KF-96L 2cs)	Shin Etsu	2.00
	Caprylic/Capric Triglyceride (Palmester 3575)	KLK Oleo	2.00
Meadowfoam Estolide (MEADOWESTOLIDE®)	Elementis	0.50	
D	Water, Prunus Amygdalus Dulcis (Sweet Almond) Oil (and) Lecithin (and) Polyglyceryl-3 Diisostearate (and) Glycerin (and) Glyceryl Stearate (Suprem WP Sweet Almond)	Lucas Meyer	1.00
	Fragrance (Peach)	Spinrad	0.40

Procedure:

1. Premix Phase A.
2. Combine Phase B and add Phase A to B with stirring and heat to 75°C.
3. Combine Phase C and heat to 75°C with stirring.
4. Combine Phase A/B and C with propeller mixing then homogenize using a Silverson homogenizer.
5. Transfer to a Propeller stirrer and cool to room temperature before adding Phase D.

Reference:108-15

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Solar Skin Frosting

S-2006-02

DESCRIPTION

This suncream has a predicted SPF of 15 and PA++. It is approved in Australia, China, Europe, Japan and Mercosur. It has a light bouncy texture and applies beautifully to the skin.

ADVANTAGES

BENTONE® LUXE WN acts as the sole emulsifier, allowing a stable cold-process suncream to be made. It helps suspend the UV-filters for even application, improve water resistancy and boost SPF.

SPECIFICATIONS

Appearance: Thick, pink cream

Viscosity: DV-II Spindle 6 2.5 rpm, 230,000 cp

Phase	Ingredient	Supplier	%w/w
A	Ethylhexyl Methoxycinnamate (Eusolex 2292)	Merck	5.00
	C12-15 Alkyl Benzoate (Finsolv TN)	Innospec	5.00
	Octocrylene (Eusolex OCR)	Merck	3.10
	Dicaprylyl Carbonate (Cetiol CC)	BASF	2.00
	Dimethicone (KF-96L 2cs)	Shin Etsu	1.80
B	Diethylamino Hydroxybenzoyl Hexylbenzoate (Uvinul A Plus Granular)	BASF	1.50
	Caprylic/Capric Triglyceride (and) Stearalkonium Hectorite (and) Polyglyceryl-3 Diisostearate (and) Polyglyceryl-3 Polyricinoleate (BENTONE® LUXE WN)	Elementis	10.00
C	Deionized Water		68.00
	Propandiol (1,2-Propandiol)	VWR	2.00
	Phenoxyethanol (and) Ethylhexylglycerin (Euxyl PE 9010)	Schülke Mayr	0.50
	Sodium Chloride		0.50
D	CI 16035 (FD&C Red No. 40 SunCroma C37-4393 1% Solution in Water)	Sun Chemical	0.40
	Fragrance (Cherry Blossom)	Spinnrad	0.20

Procedure:

1. Combine Phase A and heat to 75°C with stirring until completely dissolved. Remove from heat.
2. Add Phase B to A with propeller mixing until homogenous.
3. Combine Phase C and mix until completely dissolved.
4. Add Phase C to A/B slowly and in small portions with propeller mixing.
5. Add Phase D with propeller mixing.

Reference:108-14

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Marshmallow Melt Sunscreen

S-2010-02

DESCRIPTION

This melty marshmallow cream provides a light application and broad spectrum sunscreen giving daily protection and moisturization. It has a predicted SPF of 15 and FDA Broad UVA protection.

ADVANTAGES

BENTONE HYDROCLAY™ 900 provides stability, body and an interesting melted marshmallow texture, while giving a smooth glide onto the skin, disguising the unpleasant feel of the sunscreens.

MEADOWESTOLIDE® has been proven to improve the moisture barrier of the skin.

SPECIFICATIONS

Viscosity: DVII, Spindle 6, 20 rpm, 15,800 cP

pH: 5.5-6.0

Appearance: Pink cream

Phase	Ingredient	Supplier	%w/w
A	Deionized Water		66.00
	1,2 Propandiol	Alfa Aesar	1.00
	Disodium EDTA (Edeta BD)	BASF	0.10
	CI 16035 (1% SunCroma Red 40 in Water)	Sun Chemical	0.10
B	Homosalate (Eusolex HMS)	Merck	9.00
	Dicaprylyl Carbonate (Cetiol CC)	BASF	5.00
	Ethylhexyl Salicylate (Eusolex OS)	Merck	5.00
	Cetearyl Alcohol (and) Ceteareth-20 (Emulgade 1000 NI)	BASF	4.00
	Octocrylene (Eusolex OCR)	Merck	3.00
	Butyl Methoxydibenzoylmethane (Eusolex 9020)	BASF	2.00
	Hectorite (and) Hydroxyethylcellulose (BENTONE HYDROCLAY™ 900)	Elementis	1.50
	Glyceryl Stearate (Tegin M Pellets)	Evonik	1.00
Meadowfoam Estolide (MEADOWESTOLIDE®)	Elementis	0.20	
C	Sodium Hyaluronate (1% HyaCare in Water)	Evonik	1.00
	Phenoxyethanol (and) Ethylhexylglycerin (Euxyl PE9010)	Schuelke & Mayr	1.00
	Perfume (Candy Girl)	Spinrad	0.10

Procedure:

1. Combine Phase A and heat to 75-80°C with stirring.
2. Heat Phase B to 75-80°C and add to Phase A using a Silverson homogeniser. Mix for 10 minutes, maintaining temperature.
3. Transfer to a Propeller stirrer and cool to below 30°C.
4. Add Phase C and mix until uniform.
5. At ambient temperature, adjust the pH if necessary to 5.5-6.0

Reference:102-143

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Mocha Sun Stopper

ELEMENTIS

A global specialty chemicals company

S-2003-02
DESCRIPTION

This coffee inspired suncream has a predicted SPF of 25 and PA+++ . It is approved in Australia, China, Europe, Japan and Mercosur. The light shade gives an anti-ghosting effect.

ADVANTAGES

BENTONE® LUXE WN acts as the sole emulsifier, allowing a stable cold-process suncream to be made. It helps suspend the UV-filters for even application, improve water resistancy and boost SPF.

SPECIFICATIONS

Appearance: Thick, tan cream

Viscosity: DV-II. Spindle 7. 10 rpm, 64000 cP

Phase	Ingredient	Supplier	%w/w
A	Caprylic/Capric Triglyceride (and) Stearalkonium Hectorite (and) Polyglyceryl-3 Diisostearate (and) Polyglyceryl-3 Polyricinoleate (BENTONE® LUXE WN)	Elementis	10.00
	Homosalate (Eusolex HMS)	Merck	8.00
	Ethylhexyl Salicylate (Eusolex OS)	Merck	5.00
	Cyclopentasiloxane (Mirasil CM5)	Bluestar Silicones	6.00
	CI 77492 (and) Cyclopentasiloxane (and) PEG/PPG-18/18 Dimethicone (and) Triethoxycaprylylsilane (and) Tocopheryl Acetate (FAS50EYSI-E)	Kobo	0.50
	CI 77491 (and) Cyclopentasiloxane (and) PEG/PPG-18/18 Dimethicone (and) Triethoxycaprylylsilane (and) Tocopheryl Acetate (FAS55ERSI-E)	Kobo	0.05
	CI 77499 (and) Cyclopentasiloxane (and) PEG/PPG-18/18 Dimethicone (and) Triethoxycaprylylsilane (and) Tocopheryl Acetate (FAS60EBSI-E)	Kobo	0.02
B	Zinc Oxide (and) Triethoxycaprylylsilane (Z-Cote HP-1)	BASF	5.00
C	Deionized Water		57.73
	Phenoxyethanol (and) Ethylhexylglycerin (Euxyl PE 9010)	Schülke Mayr	1.00
	Methyl Sulfate Heptanoate		0.50
	Tetrasodium EDTA		0.10
D	Bis-ethylhexyloxyphenol Methoxyphenyl Triazine (and) Acrylates/C12-22 Alkyl Methacryl Copolymer (Tinosorb S Aqua)	BASF	3.00
	Methylene Bis-Benzotriazolyl Tetramethylbutylphenol (and) Aqua (and) Decyl Glucoside (and) Propylene Glycol (and) Xanthan Gum (Tinosorb M)	BASF	1.00
	Coffee Fragrance	Dragonspice	0.10

Procedure:

1. Combine Phase A and mix using a Silverson homogenizer. Mix until uniform.
2. Add Phase B to Phase A and homogenize for 10 minutes.
3. Combine Phase C ingredients and mix until dissolved.
4. Transfer Phase A/B to the propeller stirrer. Add Phase C slowly a little at a time.
5. Add Phase D and mix until uniform.

Reference:102-130

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Hydro Light Sun Shield

S-2005-02

DESCRIPTION

This light O/W lotion has a predicted SPF of 25 and PA+++ . It is approved in Australia, China, Europe, Japan and Mercosur.

ADVANTAGES

BENTONE HYDROCLAY™ 1100 improves texture and feel. It helps suspend the UV-filters for even application, while enhancing thermal stability, improving water resistancy and boosting SPF.

SPECIFICATIONS

Appearance: Light purple lotion

Viscosity: DV-II.
Spindle 6 2.5 rpm,
158.000 cP

pH: 6.5 - 7.0

Phase	Ingredient	Supplier	%w/w
A	Ethylhexyl Methoxycinnamate (Eusolex 2292)	Merck	5.50
	C12-15 Alkyl Benzoate (Finsolv TN)	Innospec	4.00
	Dimethicone (KF-96L 2cs)	Shin Etsu	4.00
	Glyceryl Stearate SE (Tegin Pellets)	Evonik	4.00
	Octocrylene (Eusolex OCR)	Merck	3.20
	Diethylamino Hydroxybenzoyl Hexylbenzoate (Uvinul A Plus Granular)	BASF	2.50
	Cetearyl Alcohol (Tego Alkanol 1618)	Evonik	1.50
B	Deionized Water		61.25
	CI 16035 (FD&C Red No. 40 SunCroma C37-4393 1% Solution in Water)	Sun Chemical	0.30
	CI 42090 (FD&C Blue No. 1 SunCroma C39-6393 1% Solution in Water)	Sun Chemical	0.05
C	Propandiol (1,2-Propandiol)	VWR	3.00
	Magnesium Aluminium Silicate (BENTONE HYDROCLAY™ 1100)	Elementis	1.50
D	Dimethicone/Vinyl Dimethicone Crosspolymer (and) Silica (and) Butylene Glycol (Dowsil EP 9801 Hydro Cosmetic Powder)	Dow	3.00
	Phenoxyethanol (and) Ethylhexylglycerin (Euxyl PE 9010)	Schülke Mayr	1.00
E	Methylene Bis-Benotriazolyl Tetramethylbutylphenol (and) Aqua (and) Decyl Glucoside (and) Propylene Glycol (and) Xanthan Gum (Tinosorb M)	BASF	5.00
F	Fragrance (Morning Splash)	Spinrad	0.20
G	Citric Acid		q.s.

Procedure:

1. Combine Phase A. Heat to 75°C with moderate stirring until all components are dissolved and melted
2. Combine Phase B
3. Premix Phase C and add to B with stirring
4. Add components of Phase D to B/C with stirring and heat B/C/D to 75°C
5. Add Phase A to combined Phases B/C/D with propeller stirring. Switch to homogenizer and mix for several minutes
6. Start to cool down with propeller stirring and add Phase E
7. Add Phase F at room temperature
8. Check pH and adjust with G if necessary

Reference:108-13

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The Mermaid Princess Sunscreen (W/O)

S-1001-01

DESCRIPTION

A light non-greasy water-in-oil sunscreen which provides a smooth and silky feel without the use of silicones.

ADVANTAGES

BENTONE® LUXE WN improves emulsion stability while optimizing the efficacy of the sunscreen actives.

SPECIFICATIONS

Appearance: Thick coral/pink lotion with specks of glitter

Viscosity:

DV-II, Spindle RV5, 2.5 RPM
25,000-35,000 cP

Phase	Ingredient	Supplier	%w/w
A	Caprylic/Capric Triglycerides (Palmester 3595)	KLK/Oleo	13.67
	Isoamyl Laurate (Jolee 7750)	Oleon	8.00
	C12-15 Alkyl Benzoate (Finsolv TN)	Innospec	8.00
	Caprylic/Capric Triglycerides (and) Polyglyceryl-3 Diisostearate (and) Polyglyceryl-3 Polyricinoleate (and) Stearalkonium Hectorite (BENTONE® LUXE WN)	Elementis	12.00
	Homosalate (Neo Heliopan HMS)	Symrise	5.00
	Octocrylene (Neo Heliopan 303)	Symrise	5.00
	Ethylhexyl Salicylate (Neo Heliopan OS)	Symrise	3.00
	Butyl Methoxydibenzoylmethane (Neo Heliopan 357)	Symrise	2.00
	Ethylhexyl Methoxycinnamate (Neo Heliopan AV)	Symrise	2.00
	Nylon-12 (SP-10)	Kobo	1.00
B	Tocopheryl Acetate	Protameen	0.20
	0.5% Unicert Red K7061-J in Caprylic/Capric Triglycerides	Sensient	0.14
	Deionized Water		35.72
	Glycerin		1.00
	Sodium Chloride		0.50
	Disodium EDTA		0.20
C	0.10% Unicert Yellow 08005-J in deionized water	Sensient	0.77
	Preservative	ISP	0.80
	Glitter (Crystalina 400 .008 Hex)	Meadowbrook	1.00

Procedure:

1. Combine ingredients in phase A
2. Combine ingredients in phase B
3. Add phase B gradually to phase A under Silverson homogenizer mixing
4. Continue mixing for 10 minutes
5. Transfer to propeller mixing and add phase C. Mix until uniform.

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Aloha Surf Stick

S-2002-02

DESCRIPTION

Apply this reef safe sunscreen to protect from UV rays! **THIXICIN® R PC** acts as a wax, creating the entire structure of the stick. This globally approved stick has a predicted SPF of 25.5 and PA+++.

ADVANTAGES

THIXICIN® R PC is used to create the entire stick structure and give good pay off.

BENTONE GEL® TN V keeps the actives evenly dispersed during cool down.

MEADOWESTOLIDE® has been proven to improve the moisture barrier in the skin.

SPECIFICATIONS

Appearance: Off white stick

Phase	Ingredient	Supplier	%w/w
A	Coconut Alkanes (and) Coco-Caprylate/Caprates (VegeLight 1214 LC)	Biosynthis	21.50
	Isoamyl Laurate (Jolee 7750)	Oleon	20.00
	Trihydroxystearin (THIXICIN® R PC)	Elementis	11.00
	Homosalate (Eusolex HMS)	Merck	10.00
	Octocrylene (Eusolex OCR)	Merck	10.00
	C12-15 Alkyl Benzoate (and) Stearalkonium Hectorite (and) Propylene Carbonate (BENTONE GEL® TN V)	Elementis	7.00
	Ethylhexyl Salicylate (Eusolex OS)	Merck	5.00
	Butyl Methoxydibenzoylmethane (Eusolex 9020)	Inolex	3.00
	Caprylhydroxamic Acid (and) Caprylyl Glycol (and) Glycerin (Spectrastat)	Inolex	1.00
	Meadowfoam Estolide (MEADOWESTOLIDE®)	Elementis	0.50
B	Talc		10.00
C	Cannabis Sativa (Hemp) Seed Oil	Dragonspice	1.00

Procedure:

1. Combine Phase A and heat to 85°C.
2. Transfer to a Silverson homogenizer and add Phase B. Mix till evenly dispersed.
3. Add Phase C and pack off into stick containers.
4. Leave to cool.

Reference: 102-133

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