SUCRAGEL

100% natural emulsifiers and oil thickeners

Sucragel AP V2 / Sucragel CF / Sucragel AOF / Sucragel AOF Bio

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WHAT IS SUCRAGEL?

**Sucragel** is a cold process emulsifier for oil in water emulsions and also works as an oil thickener. It comes in liquid form making it easy to use. Oily gels formed with Sucragel will instantly emulsify on contact with water.

**Sucragel** holds oil in place in a stable micro-emulsion and when water is added the mix changes into a cream or a light lotion giving countless possibilities. There are 4 variables available, Sucragel CF, AP, AOF and AOF BIO which is 94% certified organic.

MAKING AN OILY GEL WITH SUCRAGEL

• Use 1:4 ratio of Sucragel to oil phase for Sucragel CF and AOF/AOF BIO.

• Use a 1:5 ratio of Sucragel to oil phase for Sucragel AP V2.

• For CF & AP, any oils can be gelled (including Silicones, sun filters, butters, waxes, esters, synthetic oils).

• For AOF & AOF BIO, only vegetable oils and vegetable based butters and waxes can be gelled.

• Add the oil very slowly into the Sucragel using a propeller stirrer on a fast speed. The oily gel will thicken rapidly and the stirring speed and height of the stirrer will need to be increased as more oil is added.

• Formulation must remain between pH 4-8 at all times.

• Can be used at either room temperature or at temperatures up to 80ºC.

MAKING AN EMULSION WITH SUCRAGEL

• Use Sucragel at 5-10% in the oil phase.

• Sucragel can be used as a cold process emulsifier in the oil phase and the emulsion made in the usual way (add to the water phase under homogenisation). Often a co-emulsifier is also needed and also a water thickener in the water phase to provide viscosity.

• Alternatively, you can gel the oil phase of your emulsion and then dilute the oily gel with the water phase. The final emulsion will have a micro-emulsion aspect and will be more stable by going through the oily gel intermediate.

***Please refer to our training video, frequently asked questions and our trouble shooting flowchart for more information on how to use Sucragel to create a wide range of products.***

USING SUCRABLEND SP V2

Sucrablend is made from two sucrose esters to be used in conjunction with Sucragel to improve the high temperature stability of oily gel formulations.

Sucrablend is a powder and must be heated in the Sucragel at 75C until it is completely dissolved before creating the oily gel. Sucrablend does not affect the clarity or viscosity of an oily gel formulation, it just structures the gel to make it more robust and less prone to oil leaching at high temperatures.

Daily Moisturiser

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Phase** | **Ingredient** | **INCI designation** | **%w/w** | **Supplier** |
| **A** | **Sucragel CF** | **Glycerin, Caprylic/Capric Triglycerides, Aqua, Sucrose Laurate** | **7.00** | **Alchemy** |
| A | Labrafac CC | Caprylic/Capric Triglyceride | 10.00 | Gattefossé |
| A | Dub Inin | Isononyl Isononanoate | 4.00 | Stearinerie Dubois |
| A | Abyssinian Oil | Crambe Abyssinica Seed Oil | 2.00 | Elementis |
| A | Lexemul 561 | Glyceryl Stearate | 2.50 | Inolex |
| A | Cetyl Alcohol | Cetyl Alcohol | 1.50 | - |
| B | Water | Aqua | 53.60 | - |
| B | Original Extract Lemon BIO | Citrus Medica Limonum (Lemon) Fruit Water | 10.00 | Gattefossé |
| B | Glycerine | Glycerin | 5.00 | - |
| **B** | **Sucraclear HC-31** | **Cellulose Gum, Carrageenan, Ceratonia Siliqua Gum, Sucrose** | **1.20** | **Alchemy** |
| C | Gatuline In-Tense | Caprylic/Capric Triglycerides, Spilanthes Acmella Flower Extract | 2.00 | Gattefossé |
| C | Euxyl PE9010 | Phenoxyethanol, Ethylhexylglycerin | 0.70 | Schülke & Mayr |
| C | Fragrance  | Fragrance | 0.50 | - |

**DESCRIPTION:**

White cream

**MANUFACTURING PROCESS:**

Disperse the Sucraclear in the glycerine and then in water. Heat to 75ºC and then homogenise until the Sucraclear is full dispersed.

Heat Phase A to 75ºC

Slowly add Phase A to Phase B under homogenisation.

Cool to 40ºC.

Add Phase C and adjust pH if necessary to 5.5 - 6.5.

**STABILITY TESTS:**

On stability at 45°C.

pH = 5.5

Visosity: 5500 – 6500 mPa.S

Cold Process Cream

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Phase** | **Ingredient** | **INCI designation** | **%w/w** | **Supplier** |
| **A** | **Sucragel CF** | **Glycerin, Caprylic/Capric Triglycerides, Aqua, Sucrose Laurate** | **6.00** | **Alchemy** |
| A | Cetiol 868 | Ethylhexyl Stearate | 20.00 | Cognis |
| A | Natural Vitamin E | Tocopherol | 0.10 | BTSA |
| B | Water | Aqua | 66.20 | - |
| **B** | **Sucrathix VX** | **Microcrystalline Cellulose, Cellulose Gum, Xanthan Gum** | **2.00** | **Alchemy** |
| B | Glycerine | Glycerin | 4.00 | - |
| C | Euxyl K700 | Phenoxyethanol, Benzyl Alcohol, Potassium Sorbate | 1.00 | Schűlke & Mayr |
| C | Lemon Secrets | Citrus Medica Limonium (Lemon) Fruit Extract | 0.50 | Gattefossé |
| C | Fashion Soin | Fragrance | 0.20 | Aromax |

**DESCRIPTION:**

White cream

**MANUFACTURING PROCESS:**

Mix Sucrathix into the glycerine and then disperse in the water using a homogeniser for 5 minutes.

Mix together Phase A

Add Phase A into Phase B under the homogeniser.

Keep on stirring until homogeneous.

Finally add Phase C.

**STABILITY TESTS:**

Stable at least 3 months at 45°C.

pH = 5.5

N.B Sucragel CF can be replaced with any other grade of Sucragel in this formulation.

The preservative system in this formulation has not been challenge tested. Other systems can be used.

This formula is presented in good faith, and we believe it is correct, but no warranty as to accuracy of results, or fitness for a particular use is given, nor is freedom from patent infringement to be inferred.

It is offered solely for your consideration, investigation and verification.

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Multi-Gel to Milk

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Phase** | **Ingredient** | **INCI designation** | **%w/w** | **Supplier** |
| **A** | **Sucragel CF** | **Glycerin, Caprylic/Capric Triglycerides, Aqua, Sucrose Laurate** | **20.00** | **Alchemy** |
| **A** | **Sucrablend SP V2** | **Sucrose Stearate, Sucrose Palmitate** | **0.50** | **Alchemy** |
| B | Labrafac CC | Caprylic/Capric Triglyceride | 78.00 | Gattefossé |
| C | Fragrance/Essential Oils | Parfum | 0.50 | - |
| D | Water | Aqua | 1.00 | - |

**DESCRIPTION:**

Clear oily gel

**MANUFACTURING PROCESS:**

Mix together Phase A and heat to 70°C until all the Sucrablend has completely dissolved.

Heat Phase B in a separate beaker to 70°C.

Start the propeller in Phase A at quite a fast speed and then slowly add Phase B into the mixture.

Increase the stirring speed and height of the propeller stirrer as the viscosity of the gel increases (it should increase as the oil is added).

Allow cooling down to room temperature and add Phase C and D.

**STABILITY TESTS:**

Stable at least 4 months at 45°C.

(Note: the gel turns translucent at 45°C)

N.B Sucragel CF can be replaced with Sucragel AP V2 at 15%

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Fluid Cleanser

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Phase** | **Ingredient** | **INCI designation** | **%w/w** | **Supplier** |
| **A** | **Sucragel CF** | **Glycerin, Caprylic/Capric Triglycerides, Aqua, Sucrose Laurate** | **30.00** | **Alchemy** |
| A | Glycerine | Glycerin | 10.00 | - |
| **A** | **Sucrablend SP V2** | **Sucrose Stearate, Sucrose Palmitate** | **0.50** | **Alchemy** |
| B | Labrafac CC | Caprylic/Capric Triglyceride | 58.00 | Gattefossé |
| C | Fragrance | Parfum | 0.50 | - |
| C | Water | Aqua | 1.00 | - |

**DESCRIPTION:**

Hazy fluid oily gel

**MANUFACTURING PROCESS:**

Mix together Phase A and heat to 70°C until all the Sucrablend has completely dissolved.

Start the propeller in Phase A at quite a fast speed and then slowly add Phase B into the mixture.

Increase the stirring speed and height of the propeller stirrer as the viscosity of the gel increases (it should increase as the oil is added).

Allow cooling down to room temperature and add Phase C.

**STABILITY TESTS:**

Stability is being monitored at 45°C

N.B Sucragel CF can be replaced with Sucragel AP V2 at 25% in this formulation.

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Light Lotion

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Phase** | **Ingredient** | **INCI designation** | **%w/w** | **Supplier** |
| **A** | **Sucragel CF** | **Glycerin, Caprylic/Capric Triglycerides, Aqua, Sucrose Laurate** | **6.00** | **Alchemy** |
| A | Cetiol 868 | Ethylhexyl Stearate | 20.00 | Cognis |
| A | Lipocire A | Hydrogenated Palm Kernel Glycerides, Hydrogenated Palm Glycerides | 5.00 | Gattefossé |
| B | Water | Aqua | 59.40 | - |
| **B** | **Sucrathix VX** | **Microcrystalline Cellulose, Cellulose Gum, Xanthan Gum** | **2.00** | **Alchemy** |
| B | Glycerine | Glycerin | 4.00 | - |
| C | Dermasoft 1388 ECO | Glycerin, Aqua, Sodium Levulinate, Sodium Anisate | 3.50 | Dr. Straetmans |
| C | Dermofeel PA-3 | Sodium Phytate, Aqua | 0.10 | Dr. Straetmans |

**DESCRIPTION:**

White light lotion

**MANUFACTURING PROCESS:**

Mix together Phase A and heat to 70°C.

Disperse the gums in the water and heat to 70°C.

Add Phase A to Phase B using a homogeniser.

Cool down to room temperature and add Phase C.

**STABILITY TESTS:**

Stable at least 5 months at 45°C.

pH = 5.0

N.B Sucragel CF can be replaced by any grade of Sucragel in this formulation

The preservative system in this formulation has not been challenge tested. Other systems can be used.

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| --- | --- | --- | --- | --- |
| **Phase** | **Ingredient** | **INCI designation** | **%w/w** | **Supplier** |
| **A** | **Sucragel CF** | **Glycerin, Caprylic/Capric Triglycerides, Aqua, Sucrose Laurate** | **10.00** | **Alchemy** |
| A | Labrafac CC | Caprylic/Capric Triglyceride | 10.00 | Gattefossé |
| A | Lipocire A | Hydrogenated Palm Kernel Glycerides, Hydrogenated Palm Glycerides | 5.00 | Gattefossé |
| A | BR Forest | Astrocaryum Murumuru Butter | 5.00 | Chemyunion |
| A | Abyssinian Oil | Crambe Abyssinica Seed Oil | 5.00 | Elementis |
|  |  |  |  |  |
| A | Rice Bran Oil | Oryza Sativa (Rice) Bran Oil | 2.00 | Elementis |
| A | Lanette 16 | Cetyl Alcohol | 1.00 | Cognis |
| A | Cutina GMS-SE | Glyceryl Stearate SE | 1.00 | Cognis |
| A | Natural Vitamin E | Tocopherol | 0.10 | BTSA |
| B | Water | Aqua | 52.90 | - |
| **B** | **Sucraclear HC-31** | **Cellulose Gum, Carrageenan, Ceratonia Siliqua Gum, Sucrose** | **2.00** | **Alchemy** |
| B | Glycerine | Glycerin | 4.00 | - |
| C | Symdiol 68 | 1,2-Hexanediol, Caprylyl Glycol | 1.20 | Symrise |
| C | Lemon Secrets | Citrus Medica Limonium (Lemon) Fruit Extract | 0.30 | Gattefossé |
| C | Fragrance / Essential Oils | Fragrance / Essential Oils | 0.50 | - |

Nourishing Lotion

**DESCRIPTION:**

White light lotion.

**MANUFACTURING PROCESS:**

Disperse the Sucrathix into the glycerine and then into the water phase.

Heat Phases A and B up to 70°C.

Homogenise Phase B until uniform.

Add Phase A into Phase B using a homogeniser.

Cool down to room temperature under moderate mixing and add Phase C.

N.B Sucragel AOF can be replaced by Sucragel AOF BIO in this formulation

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Lip Balm

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Phase** | **Ingredient** | **INCI designation** | **%w/w** | **Supplier** |
| **A** | **Sucragel CF** | **Glycerin, Caprylic/Capric Triglycerides, Aqua, Sucrose Laurate** | **30.00** | **Alchemy** |
| **A** | **Sucrablend SP V2** | **Sucrose Stearate, Sucrose Palmitate** | **0.50** | **Alchemy** |
| B | Beeswax | Cera Alba | 2.00 | Koster Keunen |
| B | Activeshine Amazon | Orbignya Speciosa Kernel Oil, Astrocarium Murumuru Butter | 2.50 | Chemyunion |
| B | Labrafac CC | Caprylic/Capric Triglyceride | 64.80 | Gattefossé |
| B | Natural Vitamin E | Tocopherol | 0.10 | BTSA |
| C | Gemtone Amber G001 | Mica, Titanium Dioxide, Iron Oxides | 0.10 | BASF |

**DESCRIPTION:**

Sparkling oily gel.

**MANUFACTURING PROCESS:**

Mix together Phase A and heat to 70°C until all the Sucrablend has completely dissolved

Mix together Phase B and heat to 70°C.

Start the propeller in Phase A at quite a fast speed and then very slowly add Phase B.

Increase the stirring speed and height of the propeller stirrer as the viscosity of the gel increases (it should increase as the oil is added).

Cool to room temperature.

Add Phase C.

**STABILITY TESTS:**

Stable at least 3 months at 45°C

N.B Sucragel CF can be replaced with Sucragel AP V2 in this formulation at 15%

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Lavender Toner

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Phase** | **Ingredient** | **INCI designation** | **%w/w** | **Supplier** |
| A | Lavender Essential Oil | Lavandula Angustofolia (Lavender) Herb Oil | 0.10 | - |
| A | Euxyl K700 | Phenoxyethanol, Benzyl Alcohol, Potassium Sorbate | 0.80 | Schűlke & Mayr |
| **B** | **Sucragel AP V2** | **Glycerine, Aqua, Sucrose Laurate** | **5.00** | **Alchemy** |
| C | Original Extract Lemon BIO | Citrus Medica Limonum (Lemon) Fruit Water | 10.00 | Gattefossé |
| C | Water | Aqua | 84.10 | - |

**DESCRIPTION:**

Slightly cloudy water

**MANUFACTURING PROCESS:**

Mix together Phase A.

Slowly add Phase A into Phase B under stirring.

Slowly add Phase C into the mixture under stirring.

**STABILITY TESTS:**

This product is currently on stability at 45°C.

The preservative system in this formulation has not been challenge tested. Other systems can be used.

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Energising Body Scrub

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Phase** | **Ingredient** | **INCI designation** | **%w/w** | **Supplier** |
| **A** | **Sucragel AP V2** | **Glycerine, Aqua, Sucrose Laurate** | **15.00** | **Alchemy** |
| **A** | **Sucrablend SP V2** | **Sucrose Stearate, Sucrose Palmitate** | **1.00** | **Alchemy** |
| B | Sunflower Oil | Helianthis Annuus (Sunflower) Seed Oil | 30.00 | - |
| B | Sweet Almond Oil | Prunus Amygdalus Dulcis (Sweet Almond) Oil | 25.5 | - |
| B | Olive Oil | Olea Europaea (Olive) Fruit Oil | 23.40 | - |
| B | Natural Vitamin E | Tocopherol | 0.10 | BTSA |
| C | Guarana Exfoliator 1000 | Paulinia Cupana (Guarana) Seed Powder | 4.00 | Lessonia |
| C | Coffee Exfoliator 2000 | Coffee Arabica (Coffee) Seed Powder | 1.00 | Lessonia |

**DESCRIPTION:**

Clear yellow gel with scrub particles

**MANUFACTURING PROCESS:**

Mix together Phase A and heat to 70°C until all the Sucrablend has completely dissolved.

Put Phase A under the propeller mixer at quite a fast speed.

Add Phase B slowly into the Sucragel AP V2 mix.

Increase the stirring speed and height of the propeller stirrer as the viscosity of the gel increases (it should increase as the oil is added).

Finally stir in Phase C.

**STABILITY TESTS:**

On Stability at 45°C

N.B Sucragel AP V2 can be replaced with Sucragel CF

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Micro-Lite Intensive Spray

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Phase** | **Ingredient** | **INCI designation** | **%w/w** | **Supplier** |
| **A** | **Sucragel CF** | **Glycerin, Caprylic/Capric Triglycerides, Aqua, Sucrose Laurate** | **5.25** | **Alchemy** |
| B | Petroleum Gel | Petrolatum | 14.00 | - |
| B | Lanolin Wax | Lanolin Wax | 1.50 | NK Chemicals |
| B | Light Liquid Paraffin | Paraffinum Liquidum | 14.00 | NK Chemicals |
| C | Water | Aqua | 63.65 | - |
| **C** | **Sucrathix VX** | **Microcrystalline Cellulose, Cellulose Gum, Xanthan Gum** | **1.00** | **Alchemy** |
| D | Euxyl PE9010 | Phenoxyethanol, Ethylhexylglycerin | 0.60 | Schűlke & Mayr |

**DESCRIPTION:**

White thin emulsion.

**MANUFACTURING PROCESS:**

Heat Phase A to 70°C

Heat Phase B in another beaker to 70°C.

Start the propeller in the Sucragel CF at quite a fast speed and then add the Phase B slowly into the mixture.

Increase the stirring speed and height of the propeller stirrer as the viscosity of the gel increases (it should increase as the oil is added).

Heat the water to 70°C

Disperse the Sucrathix into the water phase using a homogeniser.

Slowly add Phase C into the oily gel under constant stirring. Finally homogenise for 5 minutes until the emulsion is homogenous.

When cooled add Phase D.

**STABILITY TESTS:**

On Stability at 45°C

N.B Sucragel CF can be replaced with any Sucragel AP V2 in this formulation.

The preservative system in this formulation has not been challenge tested. Other systems can be used.

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I Can’t Believe It IS Butter

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Phase** | **Ingredient** | **INCI designation** | **%w/w** | **Supplier** |
| **A** | **Sucragel CF** | **Glycerin, Caprylic/Capric Triglycerides, Aqua, Sucrose Laurate** | **25.00** | **Alchemy** |
| **A** | **Sucrablend SP V2** | **Sucrose Stearate, Sucrose Palmitate** | **0.50** | **Alchemy** |
| B | Shea Butter | Butyrospermum Parkii | 42.50 | Elementis |
| B | Activeshine Amazon | Orbignya Speciosa Kernel Oil, Astrocarium Murumuru Butter | 17.00 | Chemyunion |
| B | Labrafac CC | Caprylic/Capric Triglyceride | 14.90 | Gattefossé |
| B | Natural Vitamin E | Tocopherol | 0.10 | BTSA |

**DESCRIPTION:**

Cloudy oily gel.

**MANUFACTURING PROCESS:**

Mix together Phase A and heat to 70°C until all the Sucrablend has completely dissolved.

Mix together Phase B and heat to 70°C.

Start the propeller in Phase A at quite a fast speed and then very slowly add Phase B.

Increase the stirring speed and height of the propeller stirrer as the viscosity of the gel increases (it should increase as the oil is added).

Cool to room temperature.

**STABILITY TESTS:**

Stable at least 3 months at 45°C

N.B Sucragel CF can be replaced with Sucragel AP V2 in this formulation at 20%

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|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Phase** | **Ingredient** | **INCI designation** | **%w/w** | **Supplier** |
| **A** | **Sucragel CF** | **Glycerin, Caprylic/Capric Triglycerides, Aqua, Sucrose Laurate** | **20.00** | **Alchemy** |
| **A** | **Sucrablend SP V2** | **Sucrose Stearate, Sucrose Palmitate** | **0.50** | **Alchemy** |
| B | Cetiol 868 | Ethyhexyl Stearate | 78.00 | Cognis |
| C | Nirvana Soin ARX/30214 | Fragrance | 0.50 | Aromax |
| C | Flamenco Sparkle Gold 220J | Mica, Titanium Dioxide | 0.50 | BASF |
| C | Timica Extra Large Sparkle 1105 | Mica, Titanium Dioxide | 0.50 | BASF |

Sparkling Oily Gel

**DESCRIPTION:**

Sparkling oily gel.

**MANUFACTURING PROCESS:**

Mix together Phase A and heat to 70°C until all the Sucrablend has completely dissolved.

Heat the Cetiol 868 up to 70°C in a separate beaker.

Start the propeller in Phase A at quite a fast speed and then add the Cetiol 868 slowly into the mixture.

Increase the stirring speed and height of the propeller stirrer as the viscosity of the gel increases (it should increase as the oil is added).

Allow cooling down to room temperature and stir in Phase C.

**STABILITY TESTS:**

Stable at least 3 months at 45°C.

N.B Sucragel CF can be replaced by Sucragel AP V2 at 15% in this formulation.

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Butter Mist

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Phase** | **Ingredient** | **INCI designation** | **%w/w** | **Supplier** |
| **A** | **Sucragel CF** | **Glycerin, Caprylic/Capric Triglycerides, Aqua, Sucrose Laurate** | **8.00** | **Alchemy** |
| B | Shea Butter | Butyrospermum Parkii | 15 | - |
| B | Labrafac CC | Caprylic/Capric Triglyceride | 7.40 | Gattefossé |
| C | Water | Aqua | 65.40 | - |
| **C** | **Sucrathix VX** | **Microcrystalline Cellulose, Cellulose Gum, Xanthan Gum** | **0.60** | **Alchemy** |
| D | Dermasoft 1388 ECO | Glycerin, Aqua, Sodium Levulinate, Sodium Anisate | 3.50 | Dr. Straetmans |
| D | Dermofeel PA-3 | Sodium Phytate, Aqua | 0.10 | Dr. Straetmans |
| D | Citric Acid (10% solution) | Citric Acid | enough to create pH 4.5-5.5 | - |

**DESCRIPTION:**

White thin emulsion.

**MANUFACTURING PROCESS:**

Heat Phase A to 70°C

Heat Phase B in another beaker to 70°C.

Start the propeller in the Sucragel CF at quite a fast speed and then add the Phase B slowly into the mixture.

Increase the stirring speed and height of the propeller stirrer as the viscosity of the gel increases (it should increase as the oil is added).

Heat the water to 70°C

Disperse the Sucrathix into the water phase using a homogeniser.

Slowly add Phase C into the oily gel under constant stirring. Finally homogenise for 5 minutes until the emulsion is homogenous.

When cooled add Phase D.

**STABILITY TESTS:**

Stable for at least 1 month at 45°C

N.B Sucragel CF can be replaced by Sucragel AP V2 in this formulation.

Using more than 20% Shea Butter may result in the formulation becoming solid.

The preservative system in this formulation has not been challenge tested. Other systems can be used.

This formula is presented in good faith, and we believe it is correct, but no warranty as to accuracy of results, or fitness for a particular use is given, nor is freedom from patent infringement to be inferred.

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Super Hydrating Serum

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Phase** | **Ingredient** | **INCI designation** | **%w/w** | **Supplier** |
| A | Water | Aqua | 45.30 | - |
| A | Original Extract Lemon BIO | Citrus Medica Limonum (Lemon) Fruit Water | 20.00 | Gattefossé |
| A | Glycerin | Glycerin | 3.00 | - |
| **A** | **Sucrathix VX** | **Microcrystalline Cellulose, Cellulose Gum, Xanthan Gum** | **1.50** | **Alchemy** |
| B | Meadowfoam Seed Oil | Limnanthes Alba Seed Oil | 10.00 | Elementis  |
| **B** | **Sucragel CF** | **Glycerin, Caprylic/Capric Triglycerides, Aqua, Sucrose Laurate** | **6.00** | **Alchemy** |
| B | Abyssinian Oil | Crambe Abyssinica Seed Oil | 4.00 | Elementis |
| B | Jojoba Oil | Simmondsia Chinensis (Jojoba) Seed Oil | 3.00 | - |
| B | Glyceryl Stearate SE | Glyceryl Stearate  | 2.00 | - |
| C | Gatuline RC Bio | Water , Fagus Sylvatica Bud Extract | 2.00 | Gattefossé |
| C | Gatuline Skin Repair Bio | Alcohol , Water , Onopordum Acanthium Flower/Leaf/Stem Extract | 2.00 | Gattefossé |
| C | Fragrance | Essential Oil Blend | 1.00 | - |
| C | Euxyl K712 | Aqua, Sodium Benzoate, Potassium Sorbate | 0.20 | Schűlke & Mayr |
| C | Citric Acid 10% sol. | Citric Acid | q.s. | - |

**DESCRIPTION:**

Thin white emulsion

**MANUFACTURING PROCESS:**

Disperse the Sucrathix in Glycerine and then into the water. Heat to 75C and then homogenise until the Sucrathix is fully dispersed.

Mix together phase B and heat to 75C

Slowly add phase B into phase A under homogenisation and cool to 40C

Add phase C and adjust pH if necessary.

**STABILITY TESTS:**

On Stability at 45°C, pH: 5.14, Viscosity: 5000-6000 mPa.S

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Phase** | **Ingredient** | **INCI designation** | **%w/w** | **Supplier** |
| **A** | **Sucragel AP V2** | **Glycerine, Aqua, Sucrose Laurate** | **15.00** | **Alchemy** |
| **A** | **Sucrablend SP V2** | **Sucrose Stearate, Sucrose Palmitate** | **0.50** | **Alchemy** |
| B | Sunflower Oil | Helianthus Annuus (Sunflower) Seed Oil | 30.00 | - |
| B | IPP | Isopropyl Palmitate | 20.00 | ISP |
| B | Sweet Almond Oil | Prunus Amygdalus Dulcis Oil | 10.00 | - |
| B | Labrafac CC | Caprylic/Capric Triglyceride | 24.00 | Gattefossé |
| C | Fragrance | Parfum | 0.50 | - |

Massage Gel

**DESCRIPTION:**

Clear light yellow oily gel.

**MANUFACTURING PROCESS:**

Mix together Phase A and heat to 70°C until all the Sucrablend has completely dissolved.

Slowly add Phase B into Phase A under propeller stirrer.

Adjust the stirring speed as the viscosity of the gel increases.

Cool to room temperature and finally add Phase C under stirring.

**STABILITY TESTS:**

On Stability at 45°C

N.B Sucragel AP V2 can be replaced with Sucragel CF at 20%

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Nail Balm

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Phase** | **Ingredient** | **INCI designation** | **%w/w** | **Supplier** |
| **A** | **Sucragel AOF** | **Glycerin, Prunus Amygdalus Dulcis (Sweet Almond) Oil, Sucrose Laurate, Aqua** | **25.00** | **Alchemy** |
| B | Olive Oil | Olea Europaea  | 22.00 | - |
| B | Sunflower Oil | Helianthus Annuus (Sunflower) Seed Oil | 34.30 | - |
| B | Cocoa Butter | Theobroma Cacao Seed Butter | 2.00 | - |
| B | Shea Butter | Butyrospermum Parkii | 8.00 | Elementis |
| B | Rosehip Oil | Rosa Mosqueta Seed Oil | 5.00 | - |
| C | Rosemary Extract | Helianthus Annuus (Sunflower) Seed Oil, Rosmarinus Officinalis (Rosemary) Leaf Extract | 0.20 | Gattefossé |
| C | Lemon Essential Oil | Citrus Limonum (Lemon) Peel Oil | 0.50 | - |
| C | Water | Aqua | 3.00 | - |

**DESCRIPTION:**

Creamy gel

**MANUFACTURING PROCESS:**

Heat Phase A to 70°C.

Mix together Phase B and heat to 70°C

Start the propeller in Phase A at quite a fast speed and then slowly add Phase B.

Increase the stirring speed and height of the propeller stirrer as the viscosity of the gel increases (it should increase as the oil is added).

When it has cooled to room temperature add Phase C under a propeller stirrer.

**STABILITY TESTS:**

Stable at least 2 months at 45°C.

(Note: the gel turns clear at 45°C)

N.B Sucragel AOF can be replaced by Sucragel AOF BIO in this formulation.

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**DESCRIPTION:**

Creamy gel.

**MANUFACTURING PROCESS:**

Heat Phase A to 70°C.

Mix together Phase B and heat to 70°C

Start the propeller in Phase A at quite a fast speed and then slowly add Phase B.

Increase the stirring speed and height of the propeller stirrer as the viscosity of the gel increases (it should increase as the oil is added).

When it has cooled to room temperature add Phase C under a propeller stirrer.

**STABILITY TESTS:**

Stable at least 2 months at 45°C.

(Note: the gel turns clear at 45°C)

N.B Sucragel AOF can be replaced by Sucragel AOF BIO in this formulation.

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SPF 30 Sunspray

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Phase** | **Ingredient** | **INCI designation** | **%w/w** | **Supplier** |
| **A** | **Sucragel AP V2** | **Glycerine, Aqua, Sucrose Laurate** | **5.40** | **Alchemy** |
| B | Escalol 517 | Butyl Methoxydibenzoylmethane | 2.00 | Ashland Inc. |
| B | Escalol 557 | Ethylhexyl Methoxycinnamate | 7.50 | Ashland Inc. |
| B | Vitamin E Acetate | Vitamin E Acetate | 3.00 | BASF |
| B | Paraffin Oil | Paraffin Oil | 0.10 | NK Chemicals |
| B | Eusolex 6300 | 4-Methyl Benzidenecamphor | 4.00 | EMD Chemicals |
| B | Lexfilm Sun | Polyester-7, Neopentyl Glycol Diheptanoate | 1.50 | Inolex |
| B | Geranium Essential Oil | Pelargonium Graveolens (Geranium) Flower Oil | 1.50 | - |
| C | Water | Aqua | 70.40 | - |
| **C** | **Sucrathix VX** | **Microcrystalline Cellulose, Cellulose Gum, Xanthan Gum** | **1.00** | **Alchemy** |
| D | Dermasoft 1388 ECO | Glycerin, Aqua, Sodium Levulinate, Sodium Anisate | 3.50 | Dr. Straetmans |
| D | Dermofeel PA-3 | Sodium Phytate, Aqua | 0.10 | Dr. Straetmans |

**DESCRIPTION:**

Thin white emulsion.

**MANUFACTURING PROCESS:**

Heat Phase A to 70°C.

Mix together Phase B and heat to 70°C.

Slowly, add Phase B into the Sucragel under propeller mixer at quite a fast speed to form a gel.

Disperse the Sucrathix in the water. Heat this mixture up to 70°C and homogenise.

Slowly add Phase C into the oily gel under constant stirring. Finally homogenise for 5 minutes until the emulsion is homogenous.

Cool down to room temperature and finally add Phase D.

The preservative system in this formulation has not been challenge tested. Other systems can be used.

**DESCRIPTION:**

Thin white emulsion.

**MANUFACTURING PROCESS:**

Heat Phase A to 70°C.

Mix together Phase B and heat to 70°C.

Slowly, add Phase B into the Sucragel under propeller mixer at quite a fast speed to form a gel.

Disperse the Sucrathix in the water. Heat this mixture up to 70°C and homogenise.

Slowly add Phase C into the oily gel under constant stirring. Finally homogenise for 5 minutes until the emulsion is homogenous.

Cool down to room temperature and finally add Phase D.

**STABILITY TESTS:**

N.B Sucragel AP V2 can be replaced with Sucragel CF

The preservative system in this formulation has not been challenge tested. Other systems can be used.

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SPF 50 Sunspray

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Phase** | **Ingredient** | **INCI designation** | **%w/w** | **Supplier** |
| **A** | **Sucragel AP V2** | **Glycerine, Aqua, Sucrose Laurate** | **5.00** | **Alchemy** |
| B | Parsol 1789 | Butyl Methoxydibenzoylmethane | 5.00 | Ashland Inc. |
| B | Uvinum T-150 | Ethylhexyl Triazone | 1.00 | Ashland Inc. |
| B | Uvinul A Plus | Diethylamino Hydroxybenzoyl Hexyl Benzoate | 3.00 | BASF |
| B | Parsol MCX | Ethylhexyl Methoxycinnamate | 6.50 | NK Chemicals |
| B | Tinosorb S | Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine | 3.00 | EMD Chemicals |
| B | Neohelipan 303 | Octocrylene | 6.50 | Inolex |
| B | Lexfilm Sun | Polyester-7, Neopentyl Glycol Diheptanoate | 3.00 | Inolex |
| C | Water | Aqua | 62.4 | - |
| **C** | **Sucrathix VX** | **Microcrystalline Cellulose, Cellulose Gum, Xanthan Gum** | **1.00** | **Alchemy** |
| D | Dermasoft 1388 ECO | Glycerin, Aqua, Sodium Levulinate, Sodium Anisate | 3.50 | Dr. Straetmans |
| D | Dermofeel PA-3 | Sodium Phytate, Aqua | 0.10 | Dr. Straetmans |

**DESCRIPTION:**

Thin white emulsion.

**MANUFACTURING PROCESS:**

Heat Phase A to 70°C.

Mix together Phase B and heat to 70°C.

Slowly, add Phase B into the Sucragel under propeller mixer at quite a fast speed to form a gel.

Disperse the Sucrathix in the water. Heat this mixture up to 70°C and homogenise.

Slowly add Phase C into the oily gel under constant stirring. Finally homogenise for 5 minutes until the emulsion is homogenous.

Cool down to room temperature and finally add Phase D.

**STABILITY TESTS:**

N.B Sucragel AP V2 can be replaced with Sucragel CF

The preservative system in this formulation has not been challenge tested. Other systems can be used.

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Natural Leave In Conditioner

**DESCRIPTION:**

Thin white emulsion.

**MANUFACTURING PROCESS:**

Heat Phase A to 70°C

Heat Phase B in another beaker to 70°C.

Using a propeller stirrer, slowly add Phase B into the Phase A mixing vigorously.

Increase the stirring speed and height of the propeller stirrer as the viscosity of the gel increases (it should increase as the oil is added).

Heat the water to 75°C

Disperse the Sucrathix into the water phase using a homogeniser.

Slowly add phase C into the oily gel under constant stirring. Finally homogenise for 5 minutes until the emulsion is homogenous.

When cooled to room temperature add Phase D.

**STABILITY TESTS:**

On stability at 45°C

The preservative system in this formulation has not been challenge tested. Other systems can be used.

N.B The Sucragel AOF in this formulation can be directly replaced with Sucragel AOF BIO, CF, or AP.

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|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Phase** | **Ingredient** | **INCI designation** | **%w/w** | **Supplier** |
| **A** | **Sucragel AOF** | **Glycerin, Prunus Amygdalus Dulcis (Sweet Almond) Oil, Sucrose Laurate, Aqua** | **6.00** | **Alchemy** |
| B | Abyssinian Oil | Crambe Abyssinica Seed Oil | 1.00 | Elementis |
| B | Activeshine Amazon | Orbignya Speciosa Kernel Oil, Astrocarium Murumuru Butter | 2.00 | Chemyunion |
| B | Shea Butter | Butyrospermum Parkii | 3.00 | Elementis |
| B | Sunflower Oil | Helianthus Annuus (Sunflower) Seed Oil | 14.00 | - |
| B | Natural Vitamin E | Tocopherol | 0.10 | BTSA |
| C | Water | Aqua | 69.00 | - |
| **C** | **Sucrathix VX** | **Microcrystalline Cellulose, Cellulose Gum, Xanthan Gum** | **1.00** | **Alchemy** |
| D | Dermasoft 1388 ECO | Glycerin, Aqua, Sodium Levulinate, Sodium Anisate | 3.50 | Dr. Straetmans |
| D | Dermafeel PA-3 | Sodium Phytate, Aqua | 0.10 | Dr. Straetmans |
| D | Fragrance / Essential Oils | Fragrance / Essential Oils | 0.30 | - |

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| --- | --- | --- | --- | --- |
| **Phase** | **Ingredient** | **INCI designation** | **%w/w** | **Supplier** |
| **A** | **Sucragel AOF** | **Glycerin, Prunus Amygdalus Dulcis (Sweet Almond) Oil, Sucrose Laurate, Aqua** | **1.00** | **Alchemy** |
| B | Euxyl K700 | Phenoxyethanol, Benzyl Alcohol, Potassium Sorbate | 0.60 | Schűlke & Mayr |
| B | Essential Oil | Essential Oil | 0.50 | - |
| C | Water | Aqua | 96.90 | - |
| **C** | **Sucrathix VX** | **Microcrystalline Cellulose, Cellulose Gum, Xanthan Gum** | **1.00** | **Alchemy** |

Gentle Wetwipe Solution

**DESCRIPTION:**

A gently fragranced wet wipe solution.

**MANUFACTURING PROCESS:**

Disperse the Sucrathix VX in water using a homogeniser at room temperature.

Stir together phase B and slowly stir into the Sucragel

Add Phase C slowly into Phase AB using a propeller stirrer or spatula (depending on the size of your batch).

Homogenise the solution for 5 minutes until completely uniform.

**STABILITY TESTS:**

On Stability at 45°C.

The preservative system in this formulation has not been challenge tested. Other systems can be used.

N.B The Sucragel AOF in this formulation can be directly replaced by any grade of Sucragel.

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|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Phase** | **Ingredient** | **INCI designation** | **%w/w** | **Supplier** |
| **A** | **Sucragel CF** | **Glycerin, Caprylic/Capric Triglycerides, Aqua, Sucrose Laurate** | **2.00** | **Alchemy** |
| B | Water | Aqua | 96.40 | - |
| **B** | **Sucrathix VX** | **Microcrystalline Cellulose, Cellulose Gum, Xanthan Gum** | **1.00** | **Alchemy** |
| C | Euxyl K700 | Phenoxyethanol, Benzyl Alcohol, Potassium Sorbate | 0.60 | Schűlke & Mayr |

Basic Wetwipe Solution

**DESCRIPTION:**

Slightly cloudy thin liquid.

**MANUFACTURING PROCESS:**

Disperse the Sucrathix VX in water using a homogeniser at room temperature.

Stir in phase C into Phase A.

Add Phase B slowly into Phase AC using a propeller stirrer or spatula (depending on the size of your batch).

Homogenise the solution for 5 minutes until completely uniform.

**STABILITY TESTS:**

On Stability at 45°C.

The preservative system in this formulation has not been challenge tested. Other systems can be used.

N.B The Sucragel CF in this formulation can be directly replaced by any grade of Sucragel.

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Firming Multi-gel

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Phase** | **Ingredient** | **INCI designation** | **%w/w** | **Supplier** |
| **A** | **Sucragel CF** | **Glycerin, Caprylic/Capric Triglycerides, Aqua, Sucrose Laurate** | **25.00** | **Alchemy** |
| **A** | **Sucrablend SP V2** | **Sucrose Stearate, Sucrose Palmitate** | **0.50** | **Alchemy** |
| B | Labrafac CC | Caprylic/Capric Triglyceride | 66.00 | Gattefossé |
| B | Melscreen Buriti | Buriti (Mauritia flexuosa) pulp oil | 0.75 | Chemyunion |
| B | Gatuline Intense | Caprylic/Capric Triglyceride & Spilanthes Acmella Flower Extract | 1.00 | Gattefossé |
| C | Sweet Orange Oil | Citrus Aurantium Dulcis (Sweet Orange) oil | 0.75 | - |
| C | Glycerine | Glycerin | 5.00 | - |
| D | Water | Aqua | 1.00 | - |

**DESCRIPTION:**

Clear oily gel.

**MANUFACTURING PROCESS:**

Mix together Phase A and heat to 70°C until all the Sucrablend has completely dissolved.

Heat Phase B in a separate beaker to 70°C.

Start the propeller in Phase A at quite a fast speed and then slowly add Phase B into the mixture.

Increase the stirring speed and height of the propeller stirrer as the viscosity of the gel increases (it should increase as the oil is added).

Allow cooling down to room temperature and add Phase C and D.

**STABILITY TESTS:**

Stable at least 4 months at 45°C.

(Note: the gel turns translucent at 45°C)

N.B Sucragel CF can be replaced with Sucragel AP V2 at 15%

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