



FormulaCare i-2010

The Leading Formulators' Workshop For Personal Care Ingredients



Toiletries

Bath Frappé – Sweet and Milky

HB-DE/07/040/17-M

Phase	Trade Name	INCI Name	w/w %
A	Mineral Oil		34.00
	Cegesoft® PS 6	Olus oil	2.00
	Fragrance		1.20
B	Texapon® NSO	Sodium Laureth Sulfate	18.00
	Plantacare® 2000 UP	Decyl Glucoside	2.00
	Plantapon® ACG LC	Disodium Cocoyl Glutamate	4.00
	Lactolan® LS 5879	Hydrolyzed Milk Protein	2.50
	Melhydran® LS 4420	Honey Extract	3.00
	Glycerin	Glycerin	2.00
	Caramel liquid		0.20
	Preservative		q.s
	Citric acid	Citric acid	0.46
	Water demin		30.64

Appearance

Two phases liquid

Viscosity (Brookfield RVT, 23 °C, spindle 4, 10rpm)

< 100

pH

5.0 - 6.0

PROCEDURES

1. Mix phase A until homogeneous.
2. Mix phase B until homogeneous.
3. Mix phase A and phase B until homogeneous.

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Good Vibration Shower

HB-DE/07/040/81-M

Phase	Trade Name	INCI Name	w/w %
A	Water demin.		10.20
	Texapon® NSO	Sodium Laureth Sulfate	26.80
	Plantacare® 818 UP	Coco-Glucoside	25.00
	Plantapon® ACG LC	Disodium Cocoyl Glutamate	3.20
	Monomuls® 90 O 18	Glyceryl Oleate	6.00
	Cetiol® S	Diethylhexylcyclohexane	18.00
	Eutanol® G	Octyldodecanol	10.00
	Fragrance		0.20
	Preservative		0.10
	Citric acid	Citric acid	0.50

Appearance

Viscosity (Brookfield RVT, 23 °C, spindle TE, 4rpm with Helipath)

pH

High viscous clear product

300,000 - 400,000

7.0 - 8.0

PROCEDURES

Mix the following ingredients in given order until homogeneous.

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carechemicals

cognis

Development formulation

GYM ADDICT DEODORANT

C3033

This is a quick, simple and soothing roll-on deodorant for fast acting protection, even in extreme conditions. Highly effective moisturisers Super Sterol Liquid and Crodarom™ Hawaiian Ginger PS keep skin looking and feeling its best, whilst Arlasilk Phospholipid™ PTM optimises antimicrobial performance to ensure robust protection against bacterial and fungal odours.

Note: Free from Triclosan.

Product / INCI Name	Functionality	% w/w
ARLAMOL™ E (PPG-15 Stearyl Ether) ¹	Emollient	3.00
BRIJ™ S2 (Steareth-2) ¹	Co-Emulsifier	2.50
BRIJ™ S721 (Steareth-21) ¹	O/W Emulsifier	1.15
CRODACOL™ CS90 EP (Cetearyl Alcohol) ¹	Emulsion stabiliser, viscosity builder	0.65
SUPER STEROL LIQUID (C10-30 Cholesterol/Lanosterol Esters) ¹	Skin repair and moisturising agent	0.50
Water Deionised (Aqua)	-	To 100
ARLASILK PHOSPHOLIPID™ PTM (Myristamidopropyl PG-Dimonium Chloride Phosphate) ¹	Preservative Booster	1.00
CRODAQEST™ A300 (Sodium Heptonate) ¹	Chelating agent	0.10
Reach 301 Aluminium Chlorohydrate Solution (Aluminium Sesquichlorohydrate) ³	Antiperspirant active	32.00
CRODAROM™ HAWAIIAN GINGER PS (Water (and) Glycerin (and) Zingiber Zerumbet Extract) ²	Antibacterial, moisturising agent	1.50
PHYTEXCELL™ BIRCH (Butylene Glycol (and) Betula Alba Bark Extract) ²	Astringent, Anti-irritant active	1.50
Euxyl PE9010 (Phenoxyethanol (and) Ethylhexylglycerin) ⁴	Preservative	0.80
Fragrance (Ginger Burdock A230407) ⁵	Fragrance	0.50

Suppliers:- **1: Croda 2: Crodarom 3: Reheis 4: Schulke & Mayr 5:Ungerer**

Method

Add Crodaqest™ A300 and Arlasilk Phospholipid™ PTM to the water and begin heating to 70-75°C. Separately combine the oil phase and heat to 70-75°C. Add the oil phase to water phase with high speed stirring then homogenise for one minute. Slow stir to cool and add the remaining ingredients at < 40°C.

Appearance: Off white very thin emulsion.

pH: 3.5-4.0 Viscosity: 200-600 cps T-A S91 5rpm

Stability: 3 months @ 4 °C, 25 °C + window. 1 month @ 40 °C.

Non-warranty

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Company Name: **ISP Asia Pacific Pte Ltd**

Formulation Name: **Instant Dual Refiner** (Pre-Shower Anti-Cellulite Treatment)

Ref Number: **11165-24-1**

Product Highlight:

A novel way to slim down and slough off dead skin cells while in the shower!

This dual refiner formulation combines the slimming benefit of AT Peptide and the exfoliation effect of Captivates.

Phase	Trade Name	INCI	W/W%
A		Water	68.50
	¹ Polyclar VT	Polyvinylpyrrolidone 1-vinyl-2-pyrrolidone	5.00
	² Rapithix™ A-100	Sodium Polyacrylate	1.00
B	³ Cerasynt® 945	Glyceryl Stearate (and) Laureth-23	5.00
	⁴ Ceraphyl® 368	Octyl Palmitate	4.00
	⁵ Ceraphyl® ODS	Octyldodecyl Stearate	4.00
C	⁶ Lubrajel® II-XD	Glycerin (and) Glyceryl Polymethacrylate	5.00
	⁷ Si-Tec RE-100	Cyclopentasiloxane (and) Dimethicone / Vinyltrimethylsiloxysilicate Crosspolymer	3.00
	⁸ Liquid Germall® Plus	Propylene Glycol (and) Diazolidinyl Urea (and) Iodopropynyl Butylcarbamate	0.50
D	⁹ ATPeptide™	Aqua (and) Butylene Glycol (and) Tripeptide-4	3.00
	¹⁰ ISP Captivates™ GL7339	Green Agar Beads	1.00

Procedure

1. Add Polyclar VT to water and stir until dispersed
2. Add Rapithix A-100 and stir
3. Heat Phase A until 60 - 70°C
4. Mix Phase B and heat until 60 - 70°C
5. Add Phase B to Phase A
6. Add Phase C in order, below 40°C
7. Add Phase D with gentle mixing

Supplier

1 - 10 ISP



PASSION JELLY EU07159

Food-cosmetic concept for this foaming face scrub which looks like a mouthwatering Passion fruit jelly, delicious for the skin !

SOLAGUM™ AX thickens naturally this texture stabilised by SEPINOV™ EMT 10, both of them keep its transparency.

Formula

A	SOLAGUM™ AX (<i>Acacia Senegal Gum and Xanthan Gum – SEPPIC</i>)	1.00%
	SEPINOV™ EMT 10 (<i>Hydroxyethyl Acrylate/Sodium Acryloyldimethyl Taurate Copolymer – SEPPIC</i>)	1.00%
	• Aqua/Water	Up to 100%
B	PROTEOL™ APL (<i>Sodium Cocoyl Apple Amino Acids – SEPPIC</i>)	3.00%
	• Sodium Lauryl Ether Sulfate (27.3%MA)	15.40%
	• Methylchloroisothiazolinone and Methylisothiazolinone	0.08%
	• Polyethylene	1.00%
	• Cocos Nucifera	1.00%
	• Parfum/Fragrance	0.40%
	• Color	Up

Manufacturing Procedure (laboratory - defloculator - 2.0kg)

Weight water - Add slowly SOLAGUM™ AX under mixing - Add slowly SEPINOV™ EMT10 in aqueous gel when homogeneous - Add ingredients phase B, one after one, under mixing - Measure pH and adjust if necessary

Comments

SOLAGUM™ AX Original association of thickening polymers from vegetable origin validated by ECOCERT®. Eco-friendly product developed in accordance with sustainable development. Furthermore, thanks to its innovative process, it is a userfriendly product : low dusting, instant water soluble even under slow stirring, it can significantly reduce energy requirements as well as manufacturing costs (energy saving product). With its moderate thickening power, it is a good candidate for each kind of cosmetic products from fluid (body care) to more thicken ones (face or hands care).

SEPINOV™ EMT10 Powder polymer « 2 in 1 », ready to use (pre-neutralized), with excellent stabilizing & suspending properties.. SEPINOV™ texturizes the foam providing richness, luxurious feel and density to the lather.

PROTEOL™ APL Fruit surfactant , derived from apple juice essential amino-acids, for a gentle approach : gentle approach for the touch, for the skin & the eyes and also for the environnement.

KATHON™ CG Preservative system

Characteristics

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Appearance

pH after 1 month at RT

Viscosity after 1 month at RT

Viscosity after 1 month at 45°C

Viscosity recovery at RT (after 1 month at 45°C)

Stability

Orange liquid

7.1

6 100 mPa.s BROOKFIELD LV M3 speed 6

5 600 mPa.s BROOKFIELD LV M3 speed 6

6 400 mPa.s BROOKFIELD LV M3 speed 6

> M1 at RT and 45°C

After 1 month of freeze/thaw cycles -5 / +40°C

Stable after 18h at -18°C

Notes

Parfum/Fragrance : Kiwi 4/44401 (APF)

Polyethylene : Microscrub 20PC (KOBO)

Cocos Nucifera: Exfoliant Noix de Coco (PACIFIQUE SUD)

EU07159 – SEPPIC – 0908

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24HR SOFT DEODORANT SENSITIVE SKIN EU07156

To create the new generation of deodorants, without the use of aluminium salts, this 24hr Soft deodorant has been tested 24h in-vivo, with its efficacy proven and guaranteed! The new star is LIPACIDE™ UG. With its double action, it fights against bacteria responsible for the unpleasant odours, and also protects the skin (lipoaminoacid). This deodorant is suitable for sensitive or shaved skin as it is alcohol free.

Formula

A	• Water	25.00%
	• MONTANOV™ L (C14- 22 Alcohol and C12- 20 AlkylGlucoside - Seppic)	2.00%
	• Isopropyl Myristate	1.00%
	• Cyclopentasiloxane and Cyclohexasiloxane	1.00%
	• EUXYL™ K 320 (Propylene Glycol and Phenoxyethanol and Methylparaben and Ethylparaben - Schülke)	1.00%
B	• SEPINOV™ EMT 10 (Hydroxyethyl Acrylate/Sodium Acryloyldimethyl Taurate Copolymer - Seppic)	1.50%
C	• Water	25.00%
D	• Water	Up to 100%
	• LIPACIDE™ UG (Undecylenoyl Glycine - Seppic)	1.00%
	• Triethanolamine	Qs
	• Tetrasodium Glutamate Diacetate	0.30%
	• MICROPEARL™ M305 (Methyl Methacrylate Crosspolymer - Seppic)	1.00%

Manufacturing Procedure (pilot - Trimix - 5kg)

Weigh phase A ingredients in the main vessel and heat to 80°C. Homogenize well. Add the polymer to the main tank (phase B) and phase C and homogenize well. In a separate vessel, weigh LIPACIDE™ UG, add the water (heated at 80°C) of phase D and add the neutraliser. Mix well with a magnetic bar stirrer. Once the LIPACIDE™ UG is well neutralized add the remaining ingredients of phase D into the beaker. Start cooling down the main batch and at 60°C, add phase D into the main batch. Mix well until homogeneous.

Comments

LIPACIDE™ UG

A seboregulator and protector of the skin ecosystem, LIPACIDE™ UG helps improve dandruff conditions through its double soothing and antifungal action. It also protects cosmetic products by increasing the microbiological stability of formulas with a low preservative content.

MICROPEARL™ M305

Consisting of smooth, ultra-soft microspheres that do not dry out the skin, MICROPEARL™ M305 gives emulsions and gel-creams a slightly powdery feel. The greater the percentage of MICROPEARL™ M305, the more pronounced the powdery feel. Due to its excellent hydrodispersibility, MICROPEARL™ M305 can be used in 10 to 15% concentrations with no problem of dispersion or agglomeration. MICROPEARL™ M305 also contributes to the matifying effect of the formula by eliminating the phenomena of specular reflection.



MONTANOV™ L

Glucolipid emulsifier in harmony with nature. MONTANOV™ L is especially useful to produce fluid formulas whatever the type or quantity of oil phase used. MONTANOV™ L has a shear-thinning profile that is stable over time and well-adapted to the formulation of sprayable emulsions. It offers easy stabilization in the presence of hydrosoluble active ingredients that are rich in electrolytes. MONTANOV™ L can promote liquid crystals according to the emulsion diagram, creating water reservoirs within the emulsion to help maintain skin moisturization. In combination with the other grades of the MONTANOV™ range, it can be used to modulate the texture and flexibility of the emulsions as desired. MONTANOV™ L is fully adapted to produce emulsions with any kind of texture fluid or thick.

SEPI NOV™ EMT 10

Powder polymer « 2 in 1 », thickening in a wide pH range (3-10), ready to use, with an Excellent emulsifying and stabilizing power at low level - Innovative chemical structure with a good compatibility with specific actives ingredients and supple texture easy to pick up.

Characteristics

Appearance

pH after 1 month at RT

Viscosity after 1 month at RT

Viscosity after 1 month at 45°C

Viscosity recovery at RT (after 1 month at 45°C)

Stability

White thin emulsion

5.9

3,645 mPa.s BROOKFIELD LV2 speed 6

750 mPa.s BROOKFIELD LV speed 6

3,620 mPa.s BROOKFIELD LV speed 6

> M1 at RT and 45°C

After 1 month of freeze/thaw cycles -5 / +40°C

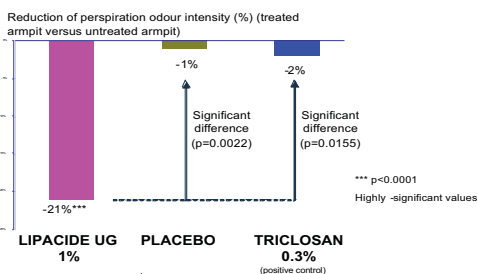
Stable after 18h at -18°C

Evaluation



4. Intensity of the perspiration odour

4a. 24 -hour deodorant efficacy of LIPACIDE UG (1%) compared with that of placebo and triclosan (0.3%) by measurement of the reduction of perspiration odour intensity between the untreated armpit and the treated armpit



➔ Only the formula containing **1% LIPACIDE UG significantly reduces the intensity of the perspiration odour** (intensity - 21% between the untreated armpit and the treated armpit).

Its **action** against the intensity of the odour is **significantly greater** than that of placebo and triclosan (positive control), which were statistically ineffective.



Notes

Isopropyl Myristate : DUB IPM (STEARINERIE DUBOIS, distributed by SEPPIC in the USA)
Cyclopentasiloxane and Cyclohexasiloxane : Dow Corning 345 Fluid (DOW CORNING)
Tetrasodium Glutamate Diacetate : Dissolvine GL-38 (AKZONOBEL)

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BLACKBERRY YOGHURT EU07120M

A creamy formula with a texture delicacies for this face scrub « yoghurt » with a vegetal concept... thanks to MONTANOV™ 82 associated with PROTEOL™ OAT, this soft emulsion allows a mild cleansing of the skin ; AQUAXYL™ gives moisturization and Givobio™ GMg revitalizes the skin

Formula

A	<ul style="list-style-type: none"> • Water • Spring water • GIVOBIO™ GMg (<i>Magnesium gluconate - SEPPIC</i>) • Cetyl alcohol & stearyl alcohol • MONTANOV™ 82 (<i>Cetearyl alcohol & Coco-glucoside - SEPPIC</i>) • Helianthus Annuus (Sunflower) seed oil 	Up to 100% 20.0% 0.2% 7.5% 2.5% 3.0%
B	• Oriza Sativa (rice) powder	3.0%
C	<ul style="list-style-type: none"> • PROTEOL™ OAT (<i>Sodium lauroyl OAT aminoacids - SEPPIC</i>) • Sodium levulinate • Dehydroacetic acid & benzyl alcohol • AQUAXYL™ (<i>Xylitylglucoside and anhydroxylitol and xylitol - SEPPIC</i>) • Fragrance • Colours 	1.0% 0.5% 0.6% 1.0% 0.3% QS

Procedure (TRIMIX –rotor stator – 6kg)

In the main tank, heat water to 80°C. Disperse Montanov 82 and waxes into water and homogenize at 3000 rpm for 5' (rotor-stator). Then add other ingredients of the phase A and continue to homogenize at 3000 rpm for 5' in keeping the temperature at 80°C. Allow to cool to 50°C under moderate stir. Add rice powder. after few minutes make vacuum and allow to cool down to 40°C. Then introduce ingredients of phase C. Mix with moderate stir for 10' at 40°C. Stop process and fill the jars.

Comments

MONTANOV™ 82 Glucolipid emulsifier in harmony with nature. Stable emulsions can be formulated with only 1% MONTANOV™ 82. MONTANOV™ 82 is especially well-suited for formulations with a high concentration of active ingredients. MONTANOV™ 82 can promote liquid crystals according to the emulsion diagram, creating water reservoirs within the emulsion to help maintain skin moisturization

AQUAXYL™ New "AQUACONCEPT " technology : thanks to an harmonization of the skin's hydrous flow, AQUAXYL™ moisturizes and restructures the skin ; Water reserves are instantly boosted and water loss is reduced (in vitro and in vivo proven efficacy) for a more supple and resilient skin !"

GIVOBIO™ GMg Supplementation of bioavailable magnesium to shape up your skin.



PROTEOL™ OAT

Surfactant based on essential amino acids of oats. It has good foaming and wetting properties yet does not dry out the skin (does not affect TEWL). Due to its high skin tolerance level, PROTEOL™ OAT is especially well-suited for formulas intended for delicate skin. It generates a rich, creamy foam.

Characteristics

Appearance	emulsion with blackberry yoghurt appearance & fragrance
PH	5.4
Viscosity after 1 month at RT	16,000 mPa.s BROOKFIELD LV4 speed 6
Viscosity after 1 month at 45°C	21,000 mPa.s BROOKFIELD LV4 speed 6
Viscosity recovery at RT (after 1 month at 45°C)	26,000 mPa.s BROOKFIELD LV4 speed 6
Stability	> M1 at room temp & 45°C > M1 after freeze thaw cycles -5 / +40°C Stable when centrifuged 20' at 3000 rpm Stable after 18h at -18°C

Notes

Spring water : EAU THERMALE DE LUCHON
Oriza Sativa (rice) powder: RICE EXFOLIATOR 2000 (LESSONIA)
Sodium levulinate: DERMOSOFT 700 (LUCAS MEYER)
Dehydroacetic acid & benzyl alcohol: GEOGARD 221 (LONZA)
Fragrance: mûre SHO 1286 (MLW)
Colour : FDC BLUE 1 – FDC RED 80 – ROUGE W3000 (WACKHERR)

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Company Name : SINERGA
Formulation name: MOISTURISING MILD BATH
Reference number 15
Contact name : g.guglielmini@sinerga.it

N°	TRADE NAME	INCI NAME	%	SUPPLIER
A	TRITON CG 110	<i>Caprylyl /capryl Glucoside</i>	3,00	
	Tween 20	<i>Polysorbate 20</i>	2,00	
	Florasolve PEG-16 MACADAMIA	<i>PEG-16 macadamia glycerides</i>	4,00	
	Fragrance	<i>Parfum</i>	0,80	
B	Citric Acid	<i>Citric Acid</i>	0,10	
	EDTA Disodium	<i>Disodium edetate</i>	0,1	
	Preservatives		q.b	
	Water	<i>Aqua</i>	q.s.100	
C	Jaguar HP 120	<i>Hydroxypropyl Guar gum</i>	1,50	
D	COCOYL WHEAT AMINOACIDS	<i>Sodium Cocoyl Wheat Aminoacids</i>	7,00	SINERGA
E	TREALIX	<i>Hydrolyzed Vegetable Protein, Trehalose</i>	1,00	SINERGA

Method

Mix phase A
Dissolve phase B and disperse phase C.
Mix phase B+A
Add phase D and then phase E.