



SISTERNA®
GUIDE FORMULATIONS 2023



HERE COMES THE SUN
Soft and Mild Sucrose Esters for Suncare

ME.015 ZnO Sun Cream SPF30

The negative sensation of ingredients on the skin, like sun filters, is eliminated by using Sisterna SP70-C and Sisterna SP30-C as the emulsifier system. They improve spreadability, skin softness and the after feel of the total formulation in a natural way.

ID: Main Emulsifier / ME.015

Viscosity: 203.000 mPa.s, Spindle 94, 5 rpm

pH-value: 7.35

Product form: O/W

	Ingredient	INCI-name	% w/w	Supplier
1	Deionised Water	Aqua	36.00	several
	Euxyl PE 9010	Phenoxyethanol, Ethylhexylglycerin	1.00	Ashland
	Glycerin	Glycerin	3.00	several
	Xilogel HS	Tamarindus Indica Seed Polysaccharide	0.25	Indena
	Actigum VSX 20	Sclerotium Gum, Xanthan Gum	0.30	Cargill
2	Sisterna SP70-C	Sucrose Stearate	3.00	Sisterna
	Sisterna SP30-C	Sucrose Distearate	3.00	Sisterna
	VS - Olive Squalane	Squalane	6.10	EFP Biotek
	Lipex PreAct	Canola Oil	3.00	AAK
	Tocomix L70-IP	Tocopherol, Helianthus Annuus (Sunflower) Seed Oil	0.05	Jan Dekker
	VAS - Vegetable alternative to Silicone	Hydrogenated Ethylhexyl Oliviate, Hydrogenated Olive Oil Unsaponifiables	9.00	EFP Biotek
	Caprylic Capric Triglyceride	Caprylic Capric Triglyceride	9.00	several
3	HBQP75FZS	Zinc Oxide, Butyloctyl Salicylate, Polyhydroxystearic Acid, Triethoxycaprylylsilane	16.00	KOBO Products
	HBTNP60ZSI	Zinc Oxide (Nano), Butyloctyl Salicylate, C12-15 Alkyl Benzoate, Polyhydroxystearic Acid, Triethoxycaprylylsilane	10.00	KOBO Products
4	Parfum Suncare 555828	Fragrance	0.30	Luzi

Production method

1. Premix the Actigum VSX 20 and Xilogel HS into the glycerin.
2. Add the preservative to the water phase.
3. Disperse the premix of glycerin in the aqueous phase while homogenising during 20 minutes at 10.000 rpm.
4. Heat the water phase to 75°C.
5. Weigh the ingredients of (2) and heat up to 75°C.
6. Weigh the ingredients of (3) and add to the heated oil phase (2), homogenise shortly for 3 minutes at 10.000 rpm.
7. Add (2+3) to (1) while continuous homogenising.
8. Cool down to 40°C and add (4) while stirring.
9. Cool down to room temperature while stirring.
10. Adjust pH if necessary.



ME.016 Mild After Sun Cream

Sisterna SP30-C and Sisterna SP70-C create a light skin feel and improve skin smoothness, emolliency and moisturisation. Their mildness is key in this formulation.

ID: Main Emulsifier / ME.016

Viscosity: 12.800 mPa.s, Helipath Spindle 94, 20 rpm

pH-value: 5.4

Product form: O/W

	Ingredient	INCI-name	% w/w	Supplier
1	Deionised Water	Aqua	51.12	several
	Glycerin	Glycerin	3.25	several
	Xilogel HS	Tamarindus Indica Seed Polysaccharide	0.25	Indena
	Actigum VSX 20	Sclerotium Gum, Xanthan Gum	0.30	Cargill
	Effisin PG	Pentylene Glycol	3.28	Ashland
	Euxyl K 712	Aqua, Sodium Benzoate, Potassium Sorbate	1.00	Ashland
2	Sisterna SP70-C	Sucrose Stearate	2.00	Sisterna
	Sisterna SP30-C	Sucrose Distearate	2.00	Sisterna
	VAB - Vanilla Butter	Prunus Amygdalus Dulcis (Sweet Almond) Oil, Helianthus Annuus (Sunflower) Seed Oil, Hydrogenated Vegetable Oil, Vanilla Planifolia Fruit Oil	9.00	EFP Biotek
	Coconut Oil	Cocos Nucifera (Coconut) Oil	6.05	several
	Apricot Oil	Prunus Armeniaca (Apricot) Kernel Oil	7.00	several
	Caprylic/Capric Triglyceride	Caprylic/Capric Triglyceride	5.00	several
	Lipex PreAct	Canola Oil	5.00	AAK
	Tocomix L70-IP	Tocopherol	0.25	Jan Dekker
	Vitamin F Forte CLR	Linoleic Acid, Linolenic Acid	1.20	CLR
	3	Myramaze	Propanediol, Aqua, Myrothamnus Flabellifolia Leaf/Stem Extract, Ascorbic Acid, Citric Acid	3.00
Aqua Luna 357576		Fragrance	0.30	Luzi
Citric Acid 20% solution		Citric Acid	qs	several

Production method

1. Premix the Actigum VSX 20 and Xilogel HS into the glycerin.
2. Add the preservatives and the premix in the water phase whilst homogenising during 20 minutes at 10.000 rpm.
4. Heat the water phase to 72-75°C.
5. Heat the oil phase to 70°C.
6. Add the oil phase to the water phase whilst homogenising at 10.000 rpm.
7. Cool down the emulsion to 40°C whilst stirring.
7. Add phase C and homogenise shortly until the ingredients are incorporated.
8. Cool down to room temperature whilst stirring.
9. Adjust pH if necessary.



AS.013 Solid Sun Stick SPF20

Soft touch suncare balm with an easy pay-off and good oil absorption which provides a non-greasy and dry skin feel, due to Sisterna A10E-C.

ID: Anhydrous / AS.013

Viscosity: N/A

pH-value: N/A

Product form: Anhydrous stick

	Ingredient	INCI-name	% w/w	Supplier
1	Candelilla Wax	Euphorbia Cerifera (Candelilla) Wax	3.50	Koster
	HSFO - Vegetable Alternative to Beeswax 2	Hydrogenated Sunflower Seed Oil	8.00	Keunen EFP Biotek
	VAB - Vanilla Butter	Prunus Amygdalus Dulcis (Sweet Almond) Oil, Helianthus Annuus (Sunflower) Seed Oil, Hydrogenated Vegetable Oil, Vanilla Planifolia Fruit Oil	26.00	EFP Biotek
	Dermofeel Toco 70 Non-GMO	Tocopherol, Helianthus Annuus (Sunflower) Seed Oil	0.10	Straetmans
2	Caprylic Capric Triglyceride	Caprylic Capric Triglyceride	20.40	several
	VAS - Vegetable Alternative to Silicone	Hydrogenated Ethylhexyl Oliviate, Hydrogenated Olive Oil Unsaponifiables	15.00	EFP Biotek
	Eusolex T-AVO	Titanium Dioxide, Silica	8.00	Merck
	Ronacare Zinc Oxide	Zinc Oxide	4.00	Merck
RonaFlair Flawless	Silica, Titanium Dioxide (CI 77891), Iron Oxides (CI 77491)	5.00	Merck	
3	Sisterna A10E-C	Sucrose Tetrastearate Triacetate	10.00	Sisterna

Production method

1. Mix the ingredients at 75°C in the listed order.
2. Heat until completely transparent and homogeneous.
3. Pour directly into suitable packaging while molten.
4. Cool down slowly to room temperature. Final viscosity will be built up after 48h.

Find your local distributor at www.sisterna.com

