

Formulation Guide #2

Minimalist Daily Beauty Routine

January 2021

TAKE CARE OF OUR PLANET, with MINASOLVE

Market Insight

- Cosmetics are expected to be **meaningful** and **respectful** (of oneself, of others, of the planet and of life in general)
- Brands are encouraged to develop **ecological, intelligent, reasonable** but **simple** formulas
- **End-user purchasing habits** are influenced and facilitated through their **understanding of INCI names** (with the development of applications like Yuka, INCI Beauty, CLEAN Beauty...)


End user expectations:

-  Safe, clean and healthy ingredients
-  Sustainable sourcing
-  Short INCI list
-  Versatile products
- MINASOLVE offers **multifunctional** ingredients, suitable for diverse applications:
 - **A-Leen 5**
 - **E-Leen Green A**
 - **Hydra-Leen 5 Rose**
 - **E-Leen Green OR**
 - **MinaSolve CapEasy**
 - **Fresh'in Green+**



SIX MULTIFUNCTIONAL SOLUTIONS, from MINASOLVE


Product descriptions:

A-Leen 5	<ul style="list-style-type: none">• Versatile bio-based multifunctional ingredient• Manufacturing process in accordance with the principles of Green-chemistry• COSMOS & NATRUE approved, 100 % vegetal derived Pentylene Glycol• Skin conditioning agent, providing a long-lasting humectant effect and a smooth skin feeling• (co-)solubilizer for oily ingredients / (co-)dispersant for pigments
E-Leen Green A	<ul style="list-style-type: none">• Synergistic blend of bio-sourced A-Leen 5 and Phenylpropanol• 100 % natural origin, COSMOS approved• Phenylpropanol is a natural aroma ingredient, produced starting from Cassia essential oil• Phenylpropanol: manufacturing process in accordance with the principles of Green-chemistry
Hydra-Leen 5 Rose	<ul style="list-style-type: none">• Rose water stabilized with A-Leen 5 (Patent pending)• 100 % natural origin, COSMOS approved• Long shelf life• Storage and logistics greatly simplified
	<p>➔ Multifunctionality of A-Leen 5, E-Leen Green A and Hydra-Leen 5 Rose in line with minimalist concept</p>



SIX MULTIFUNCTIONAL SOLUTIONS, from MINASOLVE

Product descriptions:

E-Leen Green OR	<ul style="list-style-type: none">• Balanced composition of nature derived humectants and natural bio-flavonoids with free-radical scavenging effect• Multifunctional ingredient with a broad-spectrum antimicrobial activity• E-Leen Green OR exhibits a long-lasting skin moisturizing effect• COSMOS approved and 100% sustainably sourced, manufactured from agro-wastes
MinaSolve CapEasy	<ul style="list-style-type: none">• Liquid concentrate of Capryloyl Glycine, easier to use than common powder form• Multi-functional ingredient for the cleansing and protection of skin and scalp• Versatile ingredient for the whole family:<ul style="list-style-type: none">○ Mild anti-acne ingredient○ Inhibits the growth of bacteria involved in the formation of body odour○ Water-soluble anti-dandruff ingredient
Fresh'in Green+	<ul style="list-style-type: none">• Easy to use liquid version of the otherwise crystalline physiological cooling agent Fresh'in, blended with A-Leen 5• Free of menthol-derivatives• Fresh'in Green+ exhibits a long-lasting cooling effect
	<p>➔ Multifunctionality of E-Leen Green OR, MinaSolve CapEasy and Fresh'In Green+ in line with minimalist concept</p>



SIX MULTIFUNCTIONAL SOLUTIONS, from MINASOLVE

Product ID Card:

	A-Leen 5	Hydra-Leen 5 Rose	E-Leen Green A	E-Leen Green OR	MinaSolve CapEasy	Fresh'in Green+
INCI	Pentylene Glycol	Rosa Damascena Flower Water (and) Pentylene Glycol	Pentylene Glycol, Phenylpropanol	Pentylene Glycol, Glycerin, Bioflavonoïds	Capryloyl Glycine (and) Sodium Bicarbonate (and) Water	Pentylene Glycol (and) Methyl Diisopropyl Propionamide
Appearance	Clear colourless liquid	Clear colourless liquid	Colorless Liquid	Clear, yellow liquid	Clear, colourless liquid	Clear, colourless liquid
Odour	Odourless	Pleasant, characteristic	Faint, aromatic	Odourless or faint	Odourless or faint	Fresh
pH of use	Unlimited	3 - 8	Unlimited	3 - 6.5	4 - 7	Unlimited
Use level	0.5 - 5%	Up to 100%	1.0 - 3.0%	1.0 - 3.0%	1.5 - 7.0%	0.1 to 2.5 % (max. 0.1 % for leave-on body care applications)
Origin	Derived natural	Derived natural	Derived natural	Derived natural	Derived natural	Derived natural
NOI* (ISO 16128)	1	1	1	1	0,80	0,553**
COSMOS approved	✓	✓	✓	✓	×	×

Each product is soluble in water

*NOI = Natural Origin Index

** Based on molecular mass

✓ : yes

× : no



MINIMALIST DAILY BEAUTY ROUTINE



- Purify your skin and regulate the pH with TONING HYDROLAT, including *Hydra-Leen 5 Rose*, p. 7
- Apply your MOISTURIZING DAY CREAM, with *E-Leen Green A*, p. 8
- Apply your FRESH'KISS LIPSTICK, using *Fresh'in Green+*, p.9

- Refresh yourself with the BODY MIST, using *E-Leen Green OR*, p. 10
- Nourish your skin with the BODY OIL, using *A-Leen 5*, p. 11



- Remove make-up with a neutral vegetable oil, p. 12
- Tone your skin with SOOTHING HYDROLATE, including *Hydra-Leen 5 Rose*, p. 13

- Detoxify your body thanks to a BODY SCRUB, with *A-Leen 5*, p. 14
- Nourish your skin with a BODY OIL, using *A-Leen 5*, p. 15
- Take care of your feet with a FOOT MASK, including *Minasolve CapEasy*, p. 16



TONING HYDROLATE, with Hydra-Leen 5 Rose

In the morning, take a few minutes to wake-up your skin : purify it and regulate its pH.

Hydrolats contain a lot of water and therefore fragile: microbes can develop in them if they are used or stored improperly.

By adding A-Leen 5, a plant-derived Pentylene Glycol, your hydrolate becomes 100% safe for cosmetic application

Directions for use: simply apply it to dry skin to cleanse your face



Ready-to-use!

Properties, stability and microbiology:

- Aspect: colorless liquid
- pH: 3 - 5
- Meets criteria A / ISO 11930



Formulation tip:

- Hydrolats can replace water in many other formulations, giving nice olfactory properties to your products.
- Other Hydra-Leens are available on demand (Hydra-Leen 8 Neroli / Hydra-Leen 8 Rose...)



MOISTURIZING DAY CREAM, with E-Leen Green A

The addition of E-Leen Green A to this simple O/W emulsion will moisturize your skin while perfuming and protecting your formulation against microbial contamination

Directions for use: apply face cream to sooth and moisturize dry skin

Phase	Raw material	INCI name	%
A	Water	Aqua	82.40
	Xanthan Gum PC ⁽¹⁾	Xanthan Gum	0.5
B	Emulgade PL 68/50 ⁽²⁾	Cetearyl Glucoside (and) Cetearyl Alcohol	5.0
	Refined Shea Butter ⁽³⁾	Butyrospermum Parkii (Shea) Butter	3.0
	Jojoba Oil ⁽³⁾	Simmondsia Chinensis (Jojoba) Seed Oil	3.0
	Apricot Oil ⁽³⁾	Prunus Armeniaca Kernel Oil	3.0
C	DL-a-Tocopherol (>97%)	Tocopherol	0.1
	E-Leen Green A⁽⁴⁾	Pentylene Glycol (and) Phenylpropanol	2.0
D	Buffer	Aqua (and) Citric Acid (and) Sodium Citrate	1.0

⁽¹⁾ Jungbunzlauer ; ⁽²⁾ BASF ; ⁽³⁾ Caesar & Loretz ; ⁽⁴⁾ MINASOLVE



Formulation tip:

E-Leen Green A is largely pH independant



Manufacturing process:

1. Disperse gum in water and mix for 25 min at 700-800 rpm, then heat mixture up to 75-80°C.
2. Mix and heat up all ingredients forming phase B to 80°C.
3. Add B to A while stirring when they reached the same temperature. Quickly homogenize for 3 min by Ultra Turrax (9500 – 13500 rpm), then continue mixing with normal stirrer for 30 min at 1000 rpm. Slow down to 700 rpm and keep mixing while cream is cooling down.
4. Add Tocopherol when T<40°C. Mix until homogeneous. Add E-Leen Green A under mixing.
5. Adjust the pH

Properties, stability and microbiology:

- Aspect : Off-white Cream
- pH : 5.5 ± 0,2
- Viscosity (Brookfield) : 8610 mPa, Rpm 5, L3
- **Meets criteria A / ISO 11930**



FRESH'KISS LIPSTICK, with Fresh'in Green+

This lipstick will allow you to enhance your daytime beauty routine with Fresh'in Green+, which provides cooling freshness while moisturizing your lips.

Directions for use: apply to your lips and feel the fresh cooling effect : you're awake and ready for a new day!



Phase	Raw material	INCI name	%
A	Beeswax	Cera Alba	20.0
	Castor Seed Oil ⁽¹⁾	Ricinus Communis (Castor) Seed Oil	45.0
	Jojoba Oil ⁽¹⁾	Simmondsia Chinensis (Jojoba) Seed Oil	24.5
	Lipex Cocoasoft ⁽²⁾	Theobroma Cacao Seed Butter	10.0
	Fresh'in Green+ ⁽³⁾	Pentylene Glycol (and) Methyl Diisopropyl Propionamide	0,4
B	DL- α -Tocopherol (>97%)	Tocopherol	0.1

Manufacturing process:

1. Mix ingredients from phase A while heating up to 75 °C. Stir to homogenise.
2. At 75 °C, add phase B while stirring then pour the mixture rapidly into a cold mould.
3. Cool down at 5°C for at least 30 minutes.

Properties, stability and microbiology:

- Aspect : Opaque solid
- Stable during 3 months at 8°C, room temperature and 42 °C, as well as during centrifugation for 1 hr at 20 °C and 1500 g.

⁽¹⁾ Caesar & Loretz ; ⁽²⁾ AAK ; ⁽³⁾ MINASOLVE



Formulation tip:
Long-lasting cooling effect



BODY « DETOX » MIST, with E-Leen Green OR

This simple Mist will detoxify and moisturize your skin thanks to the addition of E-Leen Green OR. The formulation is also protected from microbial contamination

Directions for use: apply body mist to wake up and rehydrate dry skin

Phase	Raw material	INCI name	%
A	Water	<i>Aqua</i>	92,60
	Organic Water mint 100% ⁽²⁾	<i>Menta Piperita extract</i>	5,00
	Sodium Citrate ⁽³⁾	<i>Sodium Citrate</i>	0,25
B	E-Leen Green OR⁽¹⁾	Pentylene Glycol (and) Glycerin (and) Bioflavonoids	2,00
C	Citric Acid	<i>Citric Acid</i>	0,15

⁽¹⁾ MINASOLVE ; ⁽²⁾ Golgemma ; ⁽³⁾ Univar



Formulation tip:

E-Leen Green OR recommended for formulations with a pH of ≤ 6.5



Manufacturing process:

1. Prepare A at room temperature, stir at 400 rpm.
2. Add B to A under stirring at 400 rpm.
3. Add C to reach pH $4,8 \pm 0,2$
4. Filter at 5 microns

Properties, stability and microbiology:

- Aspect : Clear transparent lotion
- pH : $4,8 \pm 0,2$
- Stable for 1 month room T°C, 40°C, 50°C.
- Meets criteria A / ISO 11930



BODY OIL, with A-Leen 5

**Take a few minutes in the morning to apply this body oil.
Thanks to A-Leen 5, it protects and moisturizes your skin all day long.
The formulation is also protected from microbial contamination.
Directions for use: gently massage the body oil onto your skin**



Phase	Raw material	INCI name	%
A	A-Leen 5 ⁽¹⁾	Pentylene Glycol	2.00
	Myritol 318 ⁽²⁾	Caprylic/Capric Triglyceride	21.65
	Hazelnut Oil ⁽³⁾	Corylus Avellana (Hazel) Seed Oil	20.00
	Grape Seed Oil ⁽⁴⁾	Vitis Vinifera (Grape) Seed Oil	19.70
	Sesame Oil ⁽⁴⁾	Sesamum Indicum (Sesame) Seed Oil	20.00
	BergaCare FG5 ⁽⁵⁾	Ethylhexyl Palmitate (and) Ethylhexyl Stearate (and) Hydrogenated Olive Oil (and) Caprylic/Capric Triglycerides	16.00
	DL-a-Tocopherol (>97%)	Tocopherol	0.50
	Perfume Celebration Fitness ⁽⁶⁾	Parfum	0.15

⁽¹⁾ MINASOLVE ; ⁽²⁾ BASF ; ⁽³⁾ SanaBio ; ⁽⁴⁾ Caesar & Loretz ; ⁽⁵⁾ Berg + Schmidt ; ⁽⁶⁾ Luzi

Manufacturing process:

1. Stir phase A at 1000 rpm for 15 minutes
2. Fill into a dispenser

Properties, stability and microbiology:

- Aspect : Clear yellow liquid
- Stable during 3 months @ 8°C, room temperature and 42 °C, as well as during centrifugation for 1 hr @ 20 °C and 1500 g.
- **Meets criteria A / ISO 11930**



Formulation tip :

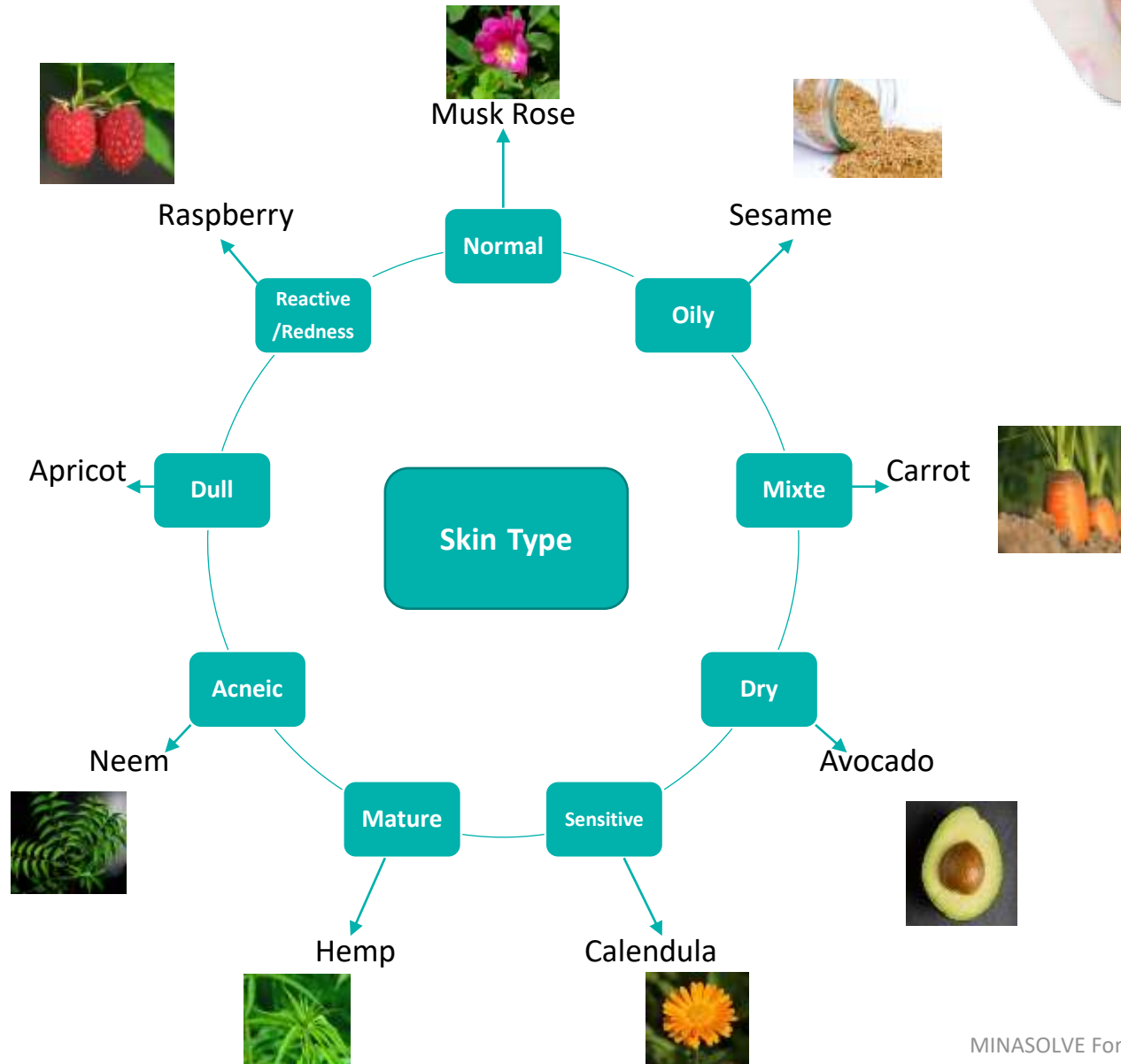
- Very simple and easy to produce formulation
- Possible to formulate anhydrous products with A-Leen 5 (soluble in Caprylic/Capric Triglyceride)



NEUTRAL VEGETABLE OIL

Before bed time, apply the oil specially adapted for your skin-type to remove makeup residue

Directions for use:
gently massage the body oil onto your skin



SOOTHING HYDROLATE, with Hydra-Leen 5 Rose

To finalize makeup removal, apply the Hydrolate to your face to rehydrate and tone your skin

By adding A-Leen 5, bio-sourced Pentylene Glycol, your hydrolat is well protected and 100% safe

Directions for use: Before going to bed, apply the Hydrolate for overnight soothing hydration



Properties, stability and microbiology:

- Aspect: colorless Liquid
- pH: 3 - 5
- Meets criteria A / ISO 11930

Phase	Raw material	INCI name	%
A	Hydra-Leen 5 Rose ⁽¹⁾	Rosa Damascena Flower Water (and) Pentylene Glycol	100.0

⁽¹⁾ MINASOLVE



Formulation tip:

- Hydrolats can replace water in many other formulations, giving nice olfactory properties to your products.
- Other hydrolates are available on demand (Hydra-Leen 8 Neroli / Hydra-Leen 8 Rose ...)



BODY SCRUB, with A-Leen 5

Take a few minutes to detoxify your body thanks to this very simple exfoliating scrub. A-Leen 5 helps to disperse the Xanthan Gum, while protecting the formulation.

Directions for use: apply to wet skin, massage and rinse-off your body



Phase	Raw material	INCI name	%
A	Water	Aqua	84.85
	Sorbitol	Sorbitol	6.00
B	A-Leen 5⁽¹⁾	Pentylene Glycol	3.00
	Xanthan gum PC ⁽²⁾	Xanthan Gum	1.50
C	Carrageenan kappa	Carrageenan	0.60
D	Coconut Exfoliator 500 ⁽³⁾	Cocos Nucifera (Coconut) Shell Powder	4.00
E	Perfume Purple Lilies ⁽⁴⁾	Perfume	0.05
F	Lactic acid, 90 %	Lactic acid (and) Aqua	Qs

⁽¹⁾ MINASOLVE, ⁽²⁾ Jungbunzlauer; ⁽³⁾ Lessonia; ⁽⁴⁾ Luzi

Manufacturing process:

1. Stir phase A at 300 rpm for 5 minutes.
2. Premix the Gum with A-Leen 5 and add to phase A under mixing.
3. Add C to A+B under mixing. Heat up to 80 – 85 °C while stirring at 700 rpm.
4. Cool down. At 40 °C, add phase D then E. Stir at 2000 rpm for 10 minutes.
5. Adjust pH to 4.50 with phase F.

Properties, stability and microbiology:

- Aspect : Thick dark brown gel
- pH : 4,5 +/- 0,3
- Stable during 3 months at 20 °C and 42°C.
- **Meets criteria A / ISO 11930**



Formulation tip :

A-Leen 5 helps to disperse xanthan gum



BODY OIL, with A-Leen 5

After exfoliation, your skin is ready to receive a moisturizing and emollient treatment.

This body oil which contains A-Leen 5 will bring a long-lasting moisturizing effect, while protecting the formulation against microbial contamination.

Directions for use: gently massage oil all over your body

Phase	Raw material	INCI name	%
A	A-Leen 5 ⁽¹⁾	Pentylene Glycol	2.00
	Myritol 318 ⁽²⁾	Caprylic/Capric Triglyceride	21.65
	Hazelnut Oil ⁽³⁾	Corylus Avellana (Hazel) Seed Oil	20.00
	Grape Seed Oil ⁽⁴⁾	Vitis Vinifera (Grape) Seed Oil	19.70
	Sesame Oil ⁽⁴⁾	Sesamum Indicum (Sesame) Seed Oil	20.00
	BergaCare FG5 ⁽⁵⁾	Ethylhexyl Palmitate (and) Ethylhexyl Stearate (and) Hydrogenated Olive Oil (and) Caprylic/Capric Triglycerides	16.00
	DL-a-Tocopherol (>97%)	Tocopherol	0.50
	Perfume Celebration Fitness ⁽⁶⁾	Parfum	0.15

⁽¹⁾ MINASOLVE ; ⁽²⁾ BASF ; ⁽³⁾ SanaBio ; ⁽⁴⁾ Caesar & Loretz ; ⁽⁵⁾ Berg + Schmidt ; ⁽⁶⁾ Luzi



Formulation tip :

- Very simple and easy to produce formulation
- Possible to formulate anhydrous products with A-Leen 5 (soluble in Caprylic/Capric Triglyceride)



Manufacturing process:

1. Stir phase A at 1000 rpm for 15 minutes

Properties, stability and microbiology:

- Aspect : Clear yellow liquid
- Stable during 3 months @ 8°C, room temperature and 42 °C, as well as during centrifugation for 1 hr @ 20 °C and 1500 g.
- **Meets criteria A / ISO 11930**



FOOT MASK, with A-Leen 5 and MinaSolve CapEasy

At the end of the day, you will have a very calming and relaxing moment thanks to this foot mask containing **A-Leen 5**, bio-sourced Pentylene Glycol, which provides long-lasting moisturizing effect.

Directions for use: apply to your feet, leave it for 2-3 minutes, relax and rinse-off



Phase	Raw material	INCI name	%
A	Glycerin	Glycerin	31.5
	DL-a-Tocopherol (>97%)	Tocopherol	0.30
	Essential oil of Rosewood	Aniba rosaeodora wood oil	0.20
	MinaSolve CapEasy⁽¹⁾	Water (and) Capryloyl Glycine (and) Sodium Bicarbonate	7
B	Green Clay	Montmorillonite	58.0
	A-Leen 5⁽¹⁾	Pentylene Glycol	3.0

Manufacturing process:

1. Weigh the green clay, add the A-Leen 5 and set aside.
2. Combine the Glycerin , Vitamin E, Essential Oil and the CapEasy and stir thoroughly to combine.
3. Slowly pour the liquid mixture into the clay, stirring to combine. Continue to stir until all the clumps are gone.
4. Once the mixture is smooth, pour your mask into a Jar.

Properties, stability and microbiology:

- Aspect : Green viscous mixture

⁽¹⁾ MINASOLVE ; ⁽²⁾ Jungbunzlauer ; ⁽³⁾ Lessonia ; ⁽⁴⁾ Luzi



Formulation tip :

- A-Leen 5 helps to disperse green clay
- MinaSolve CapEasy helps to fight against bacteria involved in the formation of body odor



MANY OTHER PRODUCTS TO DISCOVER ...

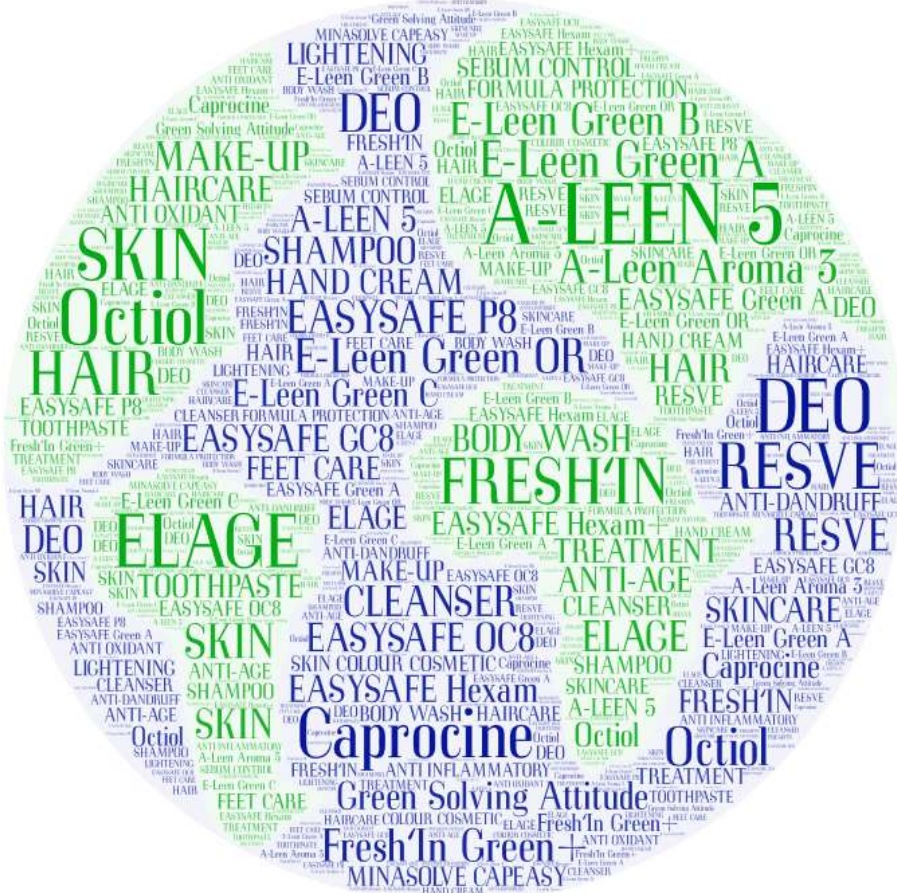
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BIO-INGREDIENTS FOR YOUR APPLICATIONS

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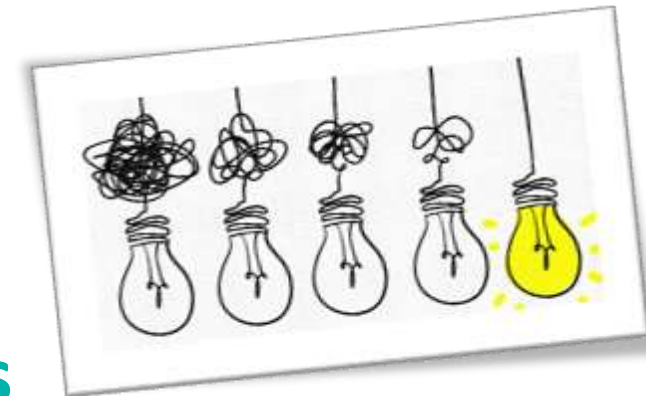
Contact the MINASOLVE Team:



- contact@minasolve.com
- www.minasolve.com



Take care of yourselves



The above information is accurate to the best of our knowledge. Customers are advised to make their own studies on the usefulness of any ingredient for a particular application. Recommended usage information is only provided as indication and should not be considered as recommendations to use Minasolve SAS's products in violation of any laws, patents, or official regulations dealing with manufacture, composition, local procedures, product design, or end usage.

