



**MINASOLVE®**  
BIO-INGREDIENTS FOR YOUR APPLICATIONS

**green  
solving  
attitude.**



# A pioneer in bio-based ingredients & leader in sustainable innovations

MINASOLVE develops and produces **exclusive and sustainable ingredients** for the cosmetics industry.

- ▶ We place **social and environmental responsibility** at the heart of our activities and have extensive expertise in **renewable materials** and **sustainable production processes**.
- ▶ Our products are manufactured using **green chemistry** and **green extraction** technology. They are characterised by **excellent performance** and **biodegradability**.
- ▶ We guarantee **100% traceability** of our natural ingredients.
- ▶ To continuously improve our customer service, we have introduced a quality management system in accordance with **ISO 9001: 2015**



MINASOLVE has been awarded the **EcoVadis Platinum Medal**.  
The EcoVadis assessment examines 21 sustainability criteria, including environmental and human rights, fair business and labour practices and sustainable procurement.  
EcoVadis helps us to continuously improve the sustainability of our company and our value chains.



Minasolve is a member of the DNA & Cosmetics Consortium initiated by DNA Gensee, with the determination to guarantee the authenticity and traceability of its raw materials.



Renewable raw materials require sustainable agricultural practices. That is why MINASOLVE is a **member of the ProTerra Network**. All ProTerra members are committed to aligning their sourcing and production policies with the ProTerra Standard for Social Responsibility and Environmental Sustainability.



MINASOLVE is part of the **UNESCO Chair in Green and Sustainable Plant-Based Chemistry** in collaboration with the University of Avignon. Our commitment to contribute to a better world is not only limited to the development of innovative products but is also in line with our motto "Green Solving Attitude".



MINASOLVE is committed to **social responsibility**. One practical example is our collaboration with ETA d'Enghien. This company employs 90% disabled people and offers them long-term employment opportunities in a working environment adapted to their needs. ETA d'Enghien fills, labels and packages our samples.

## Our offer



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## A-LEEN: MADE FOR YOU by Minasolve

The **A-Leen®** range of ingredients is at the heart of our product portfolio.

All **A-Leen®** products are produced from **renewable raw materials** according to the 12 principles of **green chemistry**. Their supply chains are **fully transparent and traceable** back to the plant-based raw materials.

All **A-Leen®** products have the following common features:

- ▶ Natural Origin Index = 1 (ISO 16128)
- ▶ pH-independent antimicrobial effect
- ▶ COSMOS & NATRUE approved
- ▶ USDA certified 100% bio-based
- ▶ Globally approved

### A-Leen 5

#### The universal multifunctional

INCI: Pentylene Glycol

**A-Leen 5** is a versatile, multifunctional ingredient that creates self-preserved formulations and offers many other benefits:

- ▶ Skin moisturizer
- ▶ Emollient, creates smooth skin feel
- ▶ Solvent for extracts and active ingredients



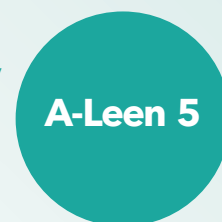
Sugar cane

Waste →



Bagasse

Green Chemistry →



A-Leen 5

Biobased  
Pentylene Glycol

↓ Juice



Sugar (food)

**A-Leen 5** is made by **upcycling** sugarcane bagasse, a **waste** product from food production. The raw material is **fully traceable**, and the **sustainable** agricultural practices are ProTerra certified. As a consequence, no additional farmland is needed to produce **A-Leen 5**.

### A-Leen 6

#### Less complexity, more performance

INCI: 1,2-Hexanediol

**A-Leen 6** is a green multifunctional ingredient that enhances product protection while providing moisturizing benefits

- ▶ All-in-one: solvent, humectant and emollient & protective properties
- ▶ Mild solution for all skin types
- ▶ Sourced from a fully certified supply chain



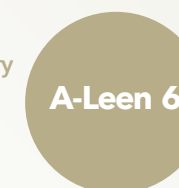
Oil palm fruits

Physical processing →



Palm kernel oil

Green Chemistry →



Biobased  
1,2-Hexanediol

**A-Leen 6** with its **exceptional mildness** is suitable for all skin types. Made from 100% RSPO-MB certified palm kernel oil, it offers a **sustainable alternative** to traditional 1,2-hexanediol.

**A-Leen 6** acts as **product protection, solvent, humectant and emollient**. Ideal for both conventional and natural cosmetics.

### A-Leen 8

#### Effectiveness meets naturalness

INCI: Caprylyl Glycol

**A-Leen 8** is a modern multifunctional ingredient which is well known for its ability to create self-preserved formulations at low use-levels.

**A-Leen 8** offers a multitude of benefits for personal care products:

- ▶ Skin moisturizer
- ▶ Conditioning agent
- ▶ Solvent booster for extracts and active ingredients

Exists in liquid version:  
**E-Leen 8**



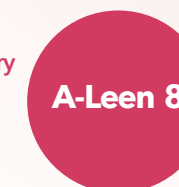
Oil palm fruits

Physical processing →



Palm kernel oil

Green Chemistry →



Biobased  
Caprylyl Glycol

**A-Leen 8** is made from 100% RSPO-MB certified palm kernel oil, which contributes to the **sustainable cultivation** of oil palms. This well-established **certified renewable supply chain** is the basis for many oleochemical ingredients for food and cosmetics.

# A-Leen Aroma-3

## Nature-derived phenylpropanol



### A-Leen Aroma-3

INCI: Phenylpropanol



**A-Leen Aroma-3** is a multifunctional ingredient with antimicrobial activity. It offers **unique protection against fungi**.

**A-Leen Aroma-3** provides the following benefits :

- ▶ **Aromatic solvent** for preservatives and active cosmetic ingredients
- ▶ **Antimicrobial boosting effect** at low concentration (~0.2%)

**A-Leen Aroma-3** in combination with other antimicrobial agents boosts their efficacy, in particular against fungi. It helps to design self-preserved cosmetic products.



- ✓ Natural product protection
- ✓ pH-independent antifungal
- ✓ Spicy oriental note
- ✓ Natural aromatic solvent
- ✓ Upcycling concept
- ✓ From Cassia trees twigs and leaves

# Synergistic antimicrobial mixtures

## Designed to simplify your work

### Minasolve offers two ranges of synergistic antimicrobial mixtures

#### The EasySafe range (p.8):

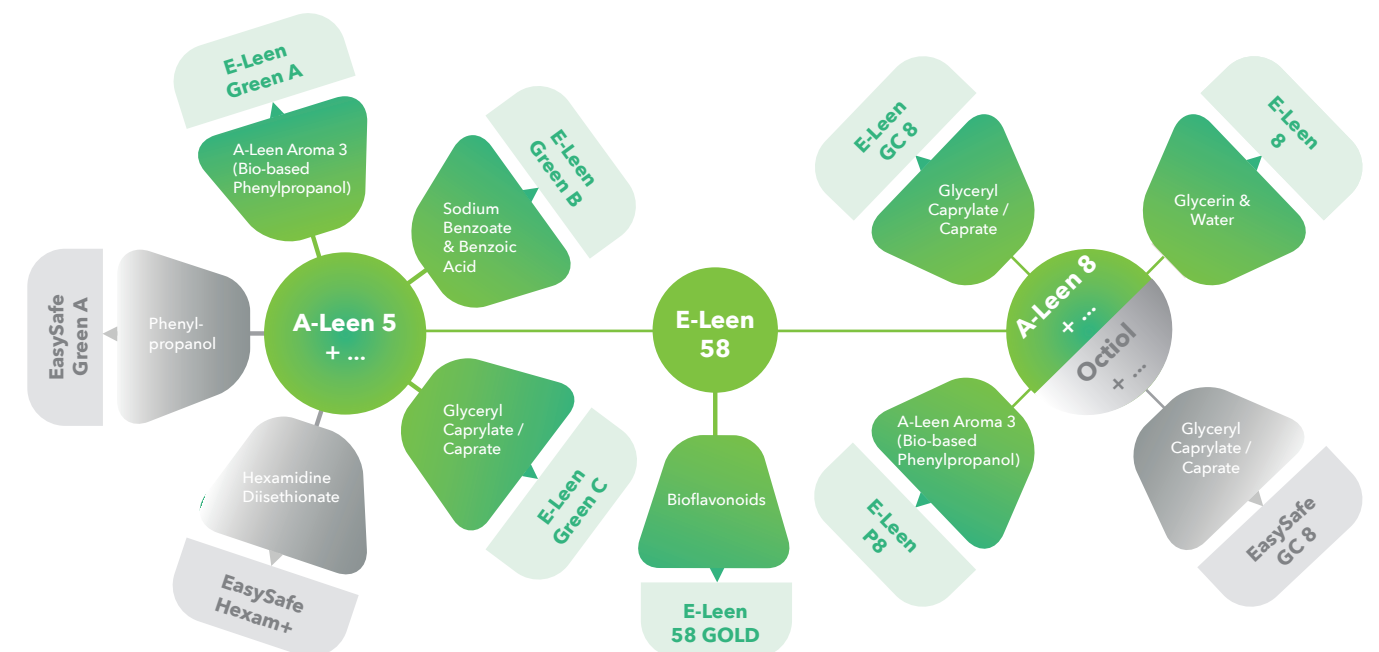
- ✓ Cost-optimized with outstanding performance
- ✓ For highest efficacy and productivity
- ✓ Partly bio-based

#### The E-Leen range (p.9-11):

- ✓ Bio-based, COSMOS & NATRUE-approved
- ✓ For more sustainable and natural cosmetics
- ✓ Readily biodegradable

**All our synergistic mixtures offer the following benefits:**

- ▶ **Complete protection:** fully self-preserving formulations  
*For perfect broad-spectrum protection against microbial contamination*
- ▶ **Convenience:** easy-to-use liquids - no heating required  
*For increased productivity and safer handling*
- ▶ **Cost reduction:** synergistic activity enables lower usage levels  
*For milder products at lower cost*
- ▶ **Complexity reduction:** multifunctional ingredients have multiple functions  
*For shorter INCI lists and easier stock management*



Solutions based on **Green Pentylene Glycol (A-Leen 5)**:

- ▶ Hydrophilic
- ▶ Multifunctional, with skin-care benefits
- ▶ 2-3% use-level
- ▶ For any kind of high-value formulation

Solutions based on **Green Caprylyl Glycol (A-Leen 8)** or based on synthetic **Caprylyl Glycol (Octiol)**:

- ▶ Lipophilic
- ▶ Low use level - cost effective
- ▶ For O/W emulsions, wet wipes, mists ...



# EasySafe range

## Optimized solutions for safe cosmetics

**EasySafe synergistic mixtures** are multifunctional solutions made from undisputed and skin friendly ingredients. All **EasySafe** provide broad spectrum, stand-alone antimicrobial protection.

### EasySafe Green A

**INCI: Pentylene Glycol, Phenylpropanol**

- ▶ Masking agent, solvent, humectant
- ▶ Effective at any pH
- ▶ Water soluble at  $\leq 3\%$

### EasySafe Hexam+

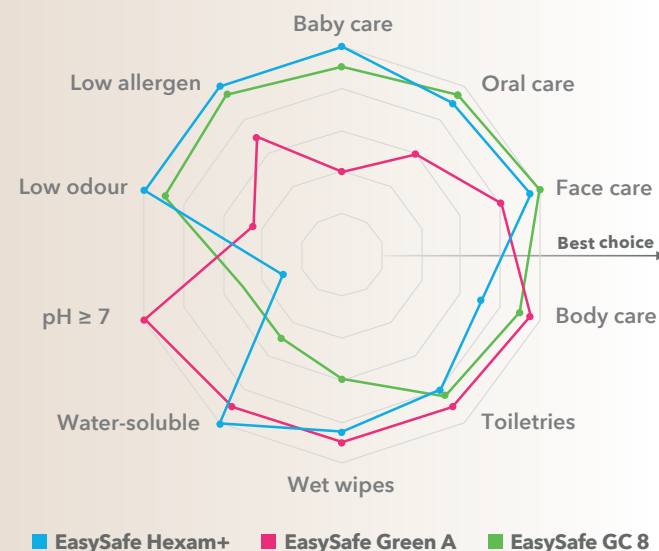
**INCI: Pentylene Glycol, Water, Hexamidine Diisethionate**

- ▶ Strong against microbes + mild to the skin
- ▶ For sensitive skin + sensitive areas
- ▶ Best combined with non-ionic ingredients

### EasySafe GC 8

**INCI: Caprylyl Glycol, Glyceryl Caprylate/ Caprate, Glycerin**

- ▶ A mild blend for sensitive skin
- ▶ Refatting and moisturizing
- ▶ With natural glycerin derivatives



#### "Skin Care"

- ✓ With bio-based Pentylene Glycol
- ✓ Hydrophilic
- ✓ 1-3% use-level

#### "Full Power"

- ✓ Based on synthetic Caprylyl Glycol
- ✓ Lipophilic
- ✓ 0.5-1.5% use-level

# E-Leen® 58

## Unique multifunctional bio-based solvent



### E-Leen 58

**INCI: Pentylene Glycol, Caprylyl Glycol**

- ▶ 100% bio-based solvent for hydrophilic and lipophilic substances
- ▶ Dissolves poorly soluble ingredients, such as:
  - Active ingredients
  - Dry plant extracts
  - Polyphenols
- ▶ Skin-friendly moisturizer
- ▶ Preservative booster with anti-yeast and antibacterial properties
- ▶ Suitable for a wide pH range

# E-Leen® 58 GOLD

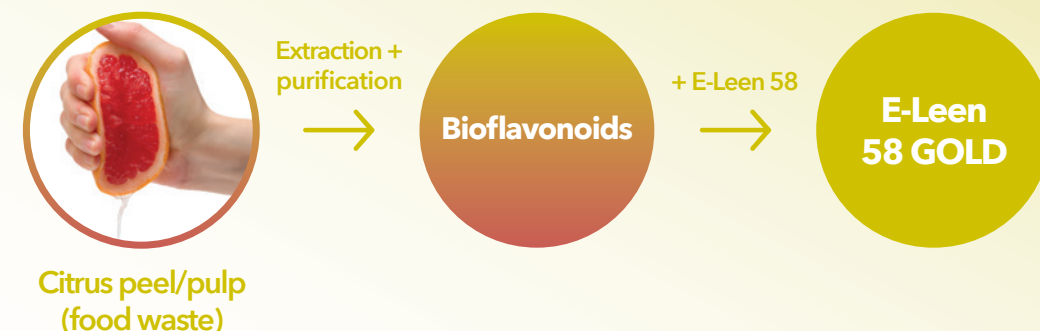
## Multifunctional protection with purified Citrus extract



### E-Leen 58 GOLD

**INCI: Pentylene Glycol, Caprylyl Glycol, Bioflavonoids**

- ▶ Creates self-preserved formulations at pH 3-7
- ▶ Low use-level of 0.5-1.5%
- ▶ Contains bioflavonoids from *Citrus grandis* (Grapefruit)
  - Powerful antioxidants
  - Upcycled from food waste
  - Free from listed fragrance allergens (IFRA)



# E-Leen® range

## Green solutions for self-preserved formulations



**E-Leen synergistic mixtures** are multifunctional solutions composed of sustainable and renewable ingredients. Each blend provides broad spectrum stand-alone antimicrobial protection.

All **E-Leen** ingredients are globally approved, COSMOS & NATRUE approved. They are particularly suitable for products with a sustainable concept and a strong focus on naturality.

### E-Leen Green A

INCI: Pentylene Glycol, Phenylpropanol

- ▶ Aromatic solvent, humectant
- ▶ Broad spectrum protection / wide pH range
- ▶ Soluble in water up to 2%

### E-Leen Green B

INCI: Pentylene Glycol, Water, Sodium Benzoate, Benzoic Acid

- ▶ Water soluble preservative blend
- ▶ Broad spectrum protection at pH ≤ 6
- ▶ Odourless and colourless

### E-Leen Green C

INCI: Pentylene Glycol, Glyceryl Caprylate/Caprate

- ▶ Mild humectant blend for sensitive skin
- ▶ Non-ionic, suitable up to pH 7
- ▶ Dispersible in water



### "Skin Care"

- ✓ With bio-based Pentylene Glycol
- ✓ Hydrophilic
- ✓ 2-3% use-level

### "Full Power"

- ✓ With bio-based Caprylyl Glycol
- ✓ Lipophilic
- ✓ 0.5-2% use-level

### E-Leen 8

INCI: Caprylyl Glycol, Glycerin, Water

- ▶ Contains 75% bio-based Caprylyl Glycol
- ▶ Cold processable liquid
- ▶ Soluble in water up to 0.9 %

### E-Leen P8

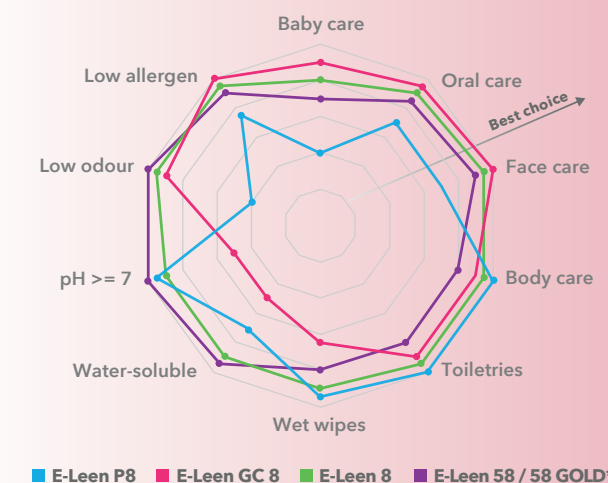
INCI: Caprylyl Glycol, Phenylpropanol, Water

- ▶ Broad spectrum effect / wide pH range
- ▶ Aromatic solvent, humectant
- ▶ Soluble in water up to 0.5 %

### E-Leen GC 8

INCI: Caprylyl Glycol, Glyceryl Caprylate/ Caprate, Glycerin

- ▶ Gentle blend for sensitive skin
- ▶ Natural skin humectant
- ▶ Contains natural glycerin derivatives



\*E-Leen 58 GOLD only for pH ≤ 7

### "Synergy"

- ✓ With bio-based Pentylene Glycol & Caprylyl Glycol

### E-Leen 58 GOLD

INCI: Pentylene Glycol, Caprylyl Glycol, Bioflavonoids

- ▶ Antioxidant effect
- ▶ Upcycled from food waste
- ▶ Broad spectrum protection up to pH 7

### E-Leen 58

INCI: Pentylene Glycol, Caprylyl Glycol

- ▶ Versatile synergistic cosmetic solvent
- ▶ Most effective against bacteria and yeasts
- ▶ Suitable for a wide pH range
- ▶ Water soluble at ≤ 2%
- ▶ 0.5-2% use-level

# Preservatives & Boosters

Gentle to the skin

## MinaSolve Hexam

INCI: Hexamidine Diisethionate

### Mild preservative for sensitive areas

- ▶ Baby care
- ▶ Sensitive skin and scalp
- ▶ Mucous membranes (around the eyes, intimate care)

### Multifunctional ingredient

- ▶ Anti-dandruff applications <sup>(1)</sup>
- ▶ Anti-acne applications <sup>(2)</sup>

### Unique quality

- ▶ Special purification process for higher safety
- ▶ Without toxic solvents
- ▶ Highly effective, max. 0.1% usage level

Exists in boosted  
liquid version:

**EasySafe Hexam+**



## Caprocine

INCI: Capryloyl Glycine

### Multifunctional and skin-friendly ingredient

- ▶ Bio-based, contains **80% renewable carbon**
- ▶ Produced from RSPO-MB certified palm-kernel oil

### Inhibits the 5 $\alpha$ -reductase

- ▶ Enzyme involved in regulating sebum production
- ▶ Helps improve sebum-related dandruff and acne
- ▶ For cleansing oily skin and greasy scalp

### Antimicrobial effect

- ▶ Active against body odour causing microbes
- ▶ Effective against *Cutibacterium acnes* and *Malassezia furfur*
- ▶ Supports the creation of self-preserving formulations

Exists in liquid version:

**MinaSolve CapEasy**



(1) Active against *Malassezia furfur*

(2) Active against *Cutibacterium acnes*

# Multifunctional Ingredients

For self-preserving formulations

## Hexiol

INCI: 1,2-Hexanediol

### Mild multifunctional ingredient:

- ▶ Moisturizer and emollient
- ▶ Dispersing aid for pigments
- ▶ Easy-to-use liquid, miscible with water in any ratio
- ▶ pH-independent antimicrobial boosting effect

## Octiol

INCI: Caprylyl Glycol

### Powerful multifunctional ingredient:

- ▶ Moisturizer and conditioner
- ▶ Co-solvent for active ingredients
- ▶ Liquid at 30°C, soluble in water at  $\leq 0.8\%$
- ▶ Creates self-preserving formulations at low use-level

## Hexcine

INCI: Ethylhexylglycerin

### Selective multifunctional ingredient:

- ▶ Humectant and emollient
- ▶ Oil-soluble co-solvent with low freezing point
- ▶ Deodorant - active against body odour causing microbes
- ▶ pH-independent antimicrobial boosting agent



# Formula Protection

## Products overview

	INCI	COSMOS & NATRUE APPROVED	NATURAL ORIGIN INDEX <sup>(1)</sup>	ADDITIONAL FUNCTIONS	FORM	COLOUR	ODOUR	BACTERIA	YEAST	MOLD	WATER SOLUBILITY	pH RANGE	RECOMMENDED USE LEVEL	KEY INFO	
A-Leen: Pure Natural Ingredients, COSMOS and NATRUE approved															
	A-Leen 5	Pentylene Glycol	✓	1	Moisturizer, Solvent, Emollient, Preservative booster	Liquid	Colourless	Odourless	✓	✓		Unlimited	unlimited	0.5 ▶ 5.0%	Helps to disperse gums
	A-Leen 6 <span>NEW 2025</span>	1,2-Hexanediol	✓	1	Moisturizer, Solvent, Emollient, Preservative booster	Liquid	Colourless	Faint	✓	✓		Unlimited	unlimited	0.1 ▶ 3.0%	Mild, suitable for sensitive skin. Helps to disperse pigments
	A-Leen 8	Caprylyl Glycol	✓	1	Moisturizer, Solvent, Preservative booster	Waxy solid	White	Faint	✓	✓		Up to 0.65%	unlimited	0.1 ▶ 1.0%	Heat to > 40°C before use
<span>PATENTED</span>	A-Leen Aroma-3	Phenylpropanol	✓	1	Solvent, Humectant, Antimicrobial boosting agent	Liquid	Colourless	Sweet Floral	✓	✓	✓	Up to 0.5%	unlimited	0.05 ▶ 1.0%	Unique anti-fungal efficacy
E-Leen: Synergistic Green Solutions, COSMOS and NATRUE approved															
	E-Leen Green A	Pentylene Glycol, Phenylpropanol	✓	1	Moisturizer, Aromatic solvent	Liquid	Colourless	Sweet Floral	✓	✓	✓	Dispersible	unlimited	1.0 ▶ 3.0%	Synergy of Pentylene Glycol and Phenylpropanol
<span>PATENTED</span>	E-Leen Green B	Pentylene Glycol, Water, Sodium Benzoate, Benzoic Acid	✓	0.88	Moisturizer, Preservative	Liquid	Colourless	Odourless or faint	✓	✓	✓	> 3%	3.0 ▶ 6.0	1.0 ▶ 3.0% (5% max.)	Water soluble blend
	E-Leen Green C	Pentylene Glycol, Glyceryl Caprylate/Caprates	✓	1	Moisturizer	Liquid	Colourless	Odourless or faint	✓	✓		Dispersible	4.0 ▶ 7.0	1.0 ▶ 3.0%	Mild blend for sensitive skin
<span>PATENTED</span>	E-Leen 8	Caprylyl Glycol, Glycerin, Water	✓	1	Moisturizer, Solvent, Preservative booster	Liquid	Colourless	Faint	✓	✓		Up to 0.9%	unlimited	0.5 ▶ 2.0%	Liquid version of Caprylyl Glycol for cold process
	E-Leen GC 8	Caprylyl Glycol, Glyceryl Caprylate/Caprates, Glycerin	✓	1	Humectant	Liquid	Colourless	Odourless or faint	✓	✓		Dispersible	4.0 ▶ 7.0	0.5 ▶ 2.0%	Mild blend for sensitive skin
	E-Leen P8	Caprylyl Glycol, Phenylpropanol, Water	✓	1	Moisturizer, Solvent, Humectant, Antimicrobial boosting agent	Liquid	Colourless	Odourless or faint	✓	✓	✓	Up to 0.5%	unlimited	0.5 ▶ 2.0%	Synergy of Caprylyl Glycol & Phenylpropanol
	E-Leen 58	Pentylene Glycol, Caprylyl Glycol	✓	1	Solvent, Humectant	Liquid	Colourless	Faint	✓	✓		Up to 2%	unlimited	0.5 ▶ 2.0%	Synergy of Pentylene Glycol & Caprylyl Glycol
	E-Leen 58 GOLD	Pentylene Glycol, Caprylyl Glycol, Bioflavonoids	✓	1	Moisturizer, Antioxidant	Liquid	Light yellow	Odourless or faint	✓	✓		Up to 0.75%*	3.0 ▶ 7.0	0.5 ▶ 1.5%	Rich in bioflavonoids - *Solubilizer required for aqueous solutions
EasySafe: Optimized Performance Solutions															
	EasySafe Green A	Pentylene Glycol, Phenylpropanol		0.69	Moisturizer, Solvent, Perfume	Liquid	Colourless	Sweet Floral	✓	✓	✓	Dispersible	unlimited	1.0 ▶ 3.0%	Synergy of Pentylene Glycol & Phenylpropanol
<span>PATENTED</span>	EasySafe Hexam+ <sup>(2)</sup>	Pentylene Glycol, Water, Hexamidine Diisethionate		0.95	Preservative, Moisturizer, Cleansing agent	Liquid	Colourless	Odourless or faint	✓	✓	✓	> 2%	3.5 ▶ 6.0	0.2 ▶ 2.0% max.	Suitable for baby care & sensitive skin Not compatible with anionic surfactants
	EasySafe GC 8	Caprylyl Glycol, Glyceryl Caprylate/Caprates, Glycerin		0.60	Humectant	Liquid	Colourless	Odourless or faint	✓	✓		Dispersible	4.0 ▶ 7.0	0.5 ▶ 2.0%	Mild blend for sensitive skin
Booster, Preservatives & Multifunctional Ingredients															
	Caprocine	Capryloyl Glycine		0.80	Anti-sebum, Anti-acne, Anti-dandruff, Deodorant	Powder	White	Odourless	✓			pH=5: up to 2% pH=7: >6%	3.0 ▶ 7.0	0.5 ▶ 2.0%	Needs to be dissolved in water at pH > 7 or at high temperature
	MinaSolve CapEasy	Water, Capryloyl Glycine, Sodium Bicarbonate		0.80	Anti-sebum, Anti-acne, Anti-dandruff, Deodorant	Liquid	Colourless	Odourless or faint	✓			pH=5: up to 12% pH=7: >30%	3.0 ▶ 7.0	1.5 ▶ 7.0%	Easy-to-use liquid version of Caprocine
	MinaSolve Hexam <sup>(2)</sup>	Hexamidine Diisethionate		0	Preservative, Cleansing agent	Powder	White or slight yellow	Odourless	✓	✓	✓	Up to 4%	3.5 ▶ 6.0	0.01 ▶ 0.1% max.	Suitable for baby care & sensitive skin Not compatible with anionic surfactants
	Octiol	Caprylyl Glycol		0	Moisturizer, Solvent, Preservative booster	Waxy solid	White	Faint	✓	✓		Up to 0.65%	unlimited	0.1 ▶ 1.0%	Heat to >40°C before use
	Hexiol	1,2-Hexanediol		0	Moisturizer, Solvent, Emollient, Preservative booster	Liquid	Colourless	Odourless or faint	✓	✓		Unlimited	unlimited	0.1 ▶ 3.0%	Mild, suitable for sensitive skin Helps to disperse pigments
	Hexcine	Ethylhexylglycerin		0	Moisturizer, Deodorant	Liquid	Colourless	Odourless or faint	✓	✓		Up to 0.1%	unlimited	0.1 ▶ 2.0%	Oil soluble co-solvent

(1) ISO 16128, calculation based on renewable carbon

(2) Regulatory status : not OK Japan



# Formula Protection

## Quick Decision Guide

### Which Minasolve product is the best choice to protect your formulation?

	PRODUCT APPLICATION							ANTI-MICROBIAL EFFICACY			PH RANGE	FORMULATION		NATURALITY		CLAIMS		
	O/W	W/O	AQUEOUS GEL	MAKE UP	MICELLAR WATER	ORAL CARE	WET WIPES	BACTERIA	YEAST	MOLD	UNLIMITED / SUITABLE	EASY TO USE	LOW IMPACT ON ODOUR	COSMOS & NATRUE	UCPYCLED	SENSITIVE SKIN	PRESERVATIVE-FREE	PALM FREE
A-Leen Range																		
A-Leen 5	●	●	●	●	●	●	●	✓	✓		●	●	●	✓	●	●	✓	✓
A-Leen 6	●	●	●	●	●	●	●	✓	✓		●	●	●	✓		●	✓	
A-Leen 8	●		●	●	●	●	●	✓	✓		●		●	✓			✓	
A-Leen Aroma-3	●	●	●	●	●	●	●	✓	✓	✓	●	●		✓	●		✓	✓
E-Leen Range																		
E-Leen Green A	●	●	●	●	●	●	●	✓	✓	✓	●	●		✓	●		✓	✓
E-Leen Green B	●	●	●	●	●	●	●	✓	✓	✓	3.0 ▶ 6.0	●	●	✓	●			✓
E-Leen Green C	●			●		●		✓	✓		4.0 ▶ 7.0	●	●	✓	●	●	✓	
E-Leen 8	●		●	●	●	●	●	✓	✓		●	●	●	✓	●		✓	
E-Leen GC 8	●		●	●	●	●	●	✓	✓		4.0 ▶ 7.0	●	●	✓	●	●	✓	
E-Leen P8	●		●	●	●	●	●	✓	✓	✓	●	●		✓	●		✓	
E-Leen 58	●		●	●	●	●	●	✓	✓		●	●	●	✓	●		✓	
E-Leen 58 GOLD	●		●	●	●	●	●	✓	✓		3.0 ▶ 7.0	●	●	✓	●		✓	
EasySafe Range																		
EasySafe Green A	●	●	●	●	●	●	●	✓	✓	✓	●	●			●		✓	✓
EasySafe Hexam +	●	●	●	●	●	●	●	✓	✓	✓	3.5 ▶ 6.0	●	●		●	●		✓
EasySafe GC 8	●		●	●	●	●	●	✓	✓		4.0 ▶ 7.0	●	●			●	✓	
Booster, Preservatives & Multifunctional Ingredients																		
Caproline	●		●		●			✓			3.0 ▶ 7.0		●			●	✓	
MinaSolve CapEasy	●		●		●			✓			3.0 ▶ 7.0	●	●			●	✓	
MinaSolve Hexam	●	●	●	●	●	●	●	✓	✓	✓	3.5 ▶ 6.0		●			●		✓
Octiol	●		●	●	●	●	●	✓	✓		●		●				✓	✓
Hexiol	●	●	●	●	●	●	●	✓	✓		●	●	●			●	✓	✓
Hexcine	●		●		●		●	✓	✓		●	●	●				✓	✓

Suitability: ● HIGH ● MEDIUM

INCI: Water, Pentylene Glycol, Cistus Ladaniferus Leaf/Stem Extract, Ascorbic Acid

Flora-Leen Cistus is a natural **anti-aging** ingredient, **skin soother** and **antioxidant**. Its multiple skincare benefits are proven in different clinical and ex-vivo studies.

Every step in the production of Flora-Leen Cistus is fully overseen and managed by Minasolve, ensuring unmatched quality and consistency. Even the extraction solvent - **A-Leen 5** - is produced in-house. The eco-friendly extraction method preserves the highest possible concentration of the plant's valuable ingredients, delivering exceptional purity and efficacy.

### The fabulous phoenix flower

*Cistus ladaniferus*, commonly known as Rockrose, is a wild Mediterranean plant that flourishes effortlessly, needing no cultivation. Treasured since ancient Egyptian times for its precious, fragrant *oleoresin labdanum*, it grows without cultivation and is carefully hand-harvested between October and December. Like a true Phoenix, it also thrives after forest fires. This unique flower has proven anti-aging properties, helping to enhance skin longevity and keep skin looking youthful and resilient.



"Cistus ladaniferus defends itself as well as the skin."

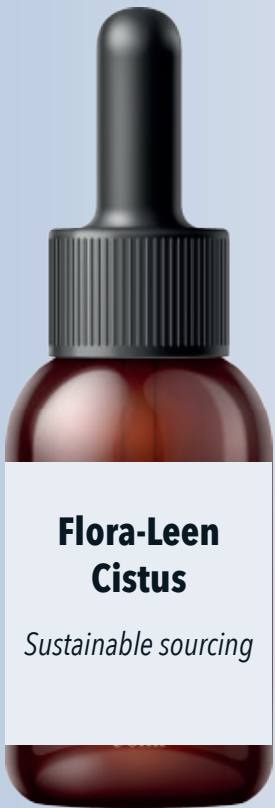
#### Skin benefits

- ▶ Promotes **healthy skin aging on the cellular level**
- ▶ Improvement of **skin regeneration**
- ▶ **Reduction of oxidative stress and UV-induced** damage

	ORIGIN	NATURAL ORIGIN INDEX <sup>(1)</sup>	FORM/ODOUR	pH RANGE	RECOMMENDED USE LEVEL	FORMULATION GUIDELINES
Active Ingredient						
Flora-Leen Cistus	Derived-natural	1	Brown liquid	3.0 ▶ 6.0	0.5 ▶ 3.0%	Incorporation at the end of the process, preferably at < 40°C. Never exceed pH 6.

(1) ISO 16128, calculation based on renewable carbon

### PROVEN ANTI-AGING ACTION FOR ENHANCED SKIN LONGEVITY



#### Enhanced skin longevity

- ✓ Wrinkle depth: -15%
- ✓ Skin firmness: +12 %
- ✓ Skin elasticity: + 9.7 %

#### Soothing & Protection

- ✓ Reduces UV-induced redness: -23%

#### Cellular detox & Renewal

- ✓ Supports autophagy: +15%
- ✓ Maintains telomeres length: +20%
- ✓ Detoxifies cells & balances ROS: +20%

\*Ex vivo and In vivo reports available upon request





# Fresh'in & Fresh'in Green+

Refreshing agents

## Fresh'in

INCI: Methyl Diisopropyl Propionamide

Long lasting physiological cooling effect

- Provides subtle freshness in skin care and rinse-off products
- Powerful cooling sensation in hydrogels, oral care, and lipstick
- Water soluble up to 0.7%

Safe alternative to menthol


- More pleasant and longer lasting effect than menthol
- Light odour, avoiding the camphor note of menthol
- Free from listed fragrance allergens (IFRA)
- No tendency to sublime

## Fresh'in Green+

INCI: Pentylene Glycol, Methyl Diisopropyl Propionamide

- Easy to use liquid version of Fresh'in
- Water soluble up to 2%.



	ORIGIN	NATURAL ORIGIN INDEX <sup>(1)</sup>	FORM/ODOUR	pH RANGE	RECOMMENDED USE LEVEL	FORMULATION GUIDELINES
Active Ingredients						
Fresh'in	Synthetic	0	White crystalline solid	Unlimited	0.04 ▶ 1.5% <sup>(2)</sup>	Added to the oil phase of an emulsion or solubilise in a diol or an alcohol.
 Fresh'in Green+	Derived-natural	0.55 <sup>(3)</sup>	Clear colourless liquid	Unlimited	0.1 ▶ 2.5% <sup>(4)</sup>	Added at any stage of the formulation, soluble/dispersible in water.

(1) ISO 16128, calculation based on renewable carbon  
(2) Max recommended use level for a leave-on body application: 0.04%  
(3) Based on molecular mass  
(4) Max recommended use level for a leave-on body application: 0.1%

# Resve

Plant polyphenol antioxidant



## Resve

INCI: Resveratrol

Natural, multifunctional active ingredient

- Anti-aging
- Anti-oxidant
- Anti-inflammatory

Derived from wild plants - weed upcycling

- Extracted from Japanese Knotweed (*Fallopia japonica*)
- Invasive species with exceptionally fast growth
- Resistant to environmental stress

Characteristics and formulation tips

- An almost white powder of high purity (≥ 98%)
- Soluble in diols such as A-Leen 5 or propanediol
- Formulation identical to Resveratrol extracted from red grapes



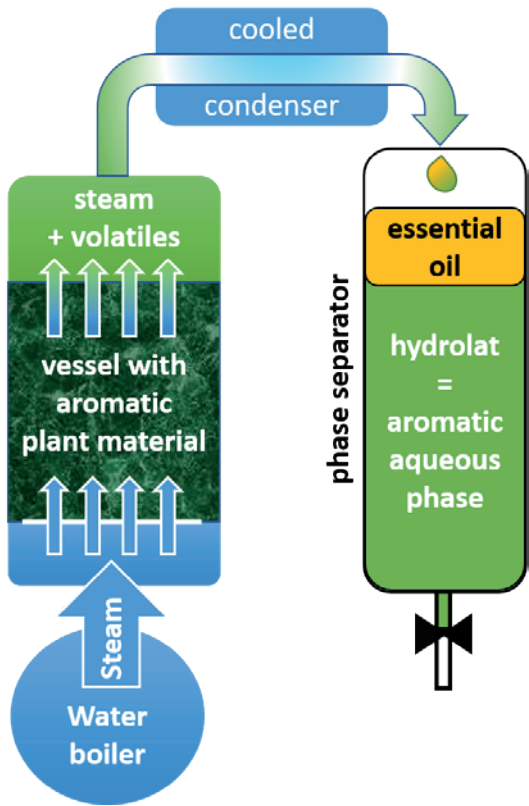
	ORIGIN	NATURAL ORIGIN INDEX <sup>(1)</sup>	FORM/ODOUR	pH RANGE	RECOMMENDED USE LEVEL	FORMULATION GUIDELINES
Active Ingredients						
Resve	Natural	1	White to off-white powder	max. 7	0.1 ▶ 1.0%	Can be added to the water or oil phase, preferably under hot conditions and before emulsification. Can also be dissolved in an alkanediol (e.g. up to 7% in A-Leen 5) and added as a premix.

(1) ISO 16128, calculation based on renewable carbon



# Hydra-Leen® BIO range

## Stabilized Hydrolats - the Natural Fragrance



**Hydra-Leens** are scented waters that are obtained as a by-product of the steam distillation of essential oils.

**Hydra-Leens** make natural hydrolats more accessible to the cosmetic industry.

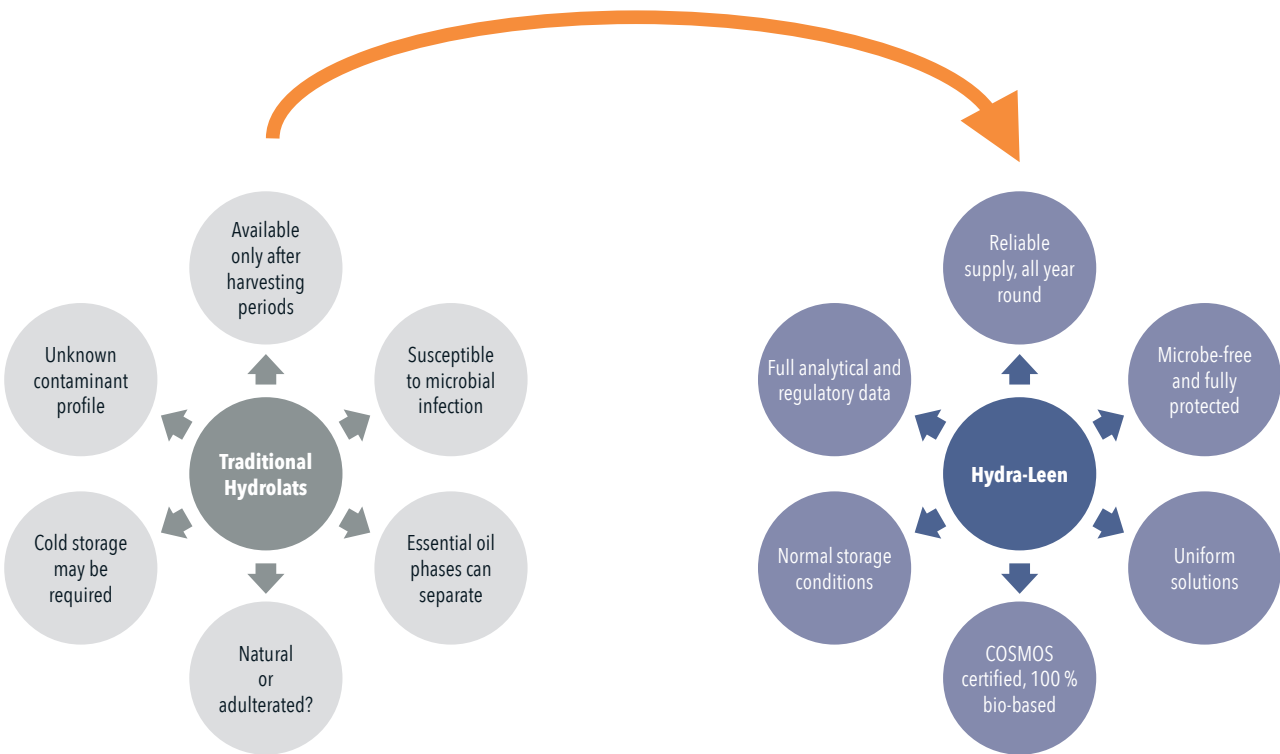
**A long shelf life** is achieved by the absence of microbes.




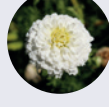
A **high level of safety** is also ensured by guaranteed specifications for fragrance allergens.

Therefore, Hydra-Leens are the best possible combination of traditional knowledge and modern technology.

- ▶ Safe and **natural fragrances**
- ▶ Obtained from **organic cultivation**
- ▶ Analysed for fragrance allergens
- ▶ Stable with a **2-year shelf life**
- ▶ Available all year round
- ▶ **> 99% upcycled**

### Hydra-Leen - reliably fresh and stable hydrolats for cosmetics



PRODUCT NAME	PLANT SPECIES, PLANT PARTS		INCI	COUNTRY OF ORIGIN	% UPCYCLED	% ORGANIC
Hydra-Leen range						
Hydra-Leen 8 Neroli BIO	Bitter orange, flowers		Citrus Aurantium Amara (Bitter Orange) Flower Water, Caprylyl Glycol, Glycerin, Water	Morocco	>99%	99.4%
Hydra-Leen 8 Rose BIO	Damask rose, flowers		Rosa Damascena Flower Water, Caprylyl Glycol, Glycerin, Water	Morocco	>99%	99.5%
Hydra-Leen 5 Rose BIO			Rosa Damascena Flower Water, Pentylene Glycol	Morocco	100%	97.5%
Hydra-Leen 8 Lavender BIO	Lavender, flowers		Lavandula Angustifolia (Lavender) Flower Water, Caprylyl Glycol, Glycerin, Water	France	>99%	99.5%
Hydra-Leen 8 Camomile BIO	Roman chamomile, flowers		Anthemis Nobilis Flower Water, Caprylyl Glycol, Glycerin, Water	France	>99%	99.5%

**Formulation tip:** All Hydra-Leens are water soluble. They can be used up to 100% use-level and are preferably added at the end of the formulation process at room temperature.



# Natural actives & extracts

Our expertise in green solvents for your customized solutions

## Our expertise in green solvents for your customized solutions

Nature offers a vast source of potent cosmetic active ingredients, and we unlock this potential with a dedicated team of experts in extraction technologies.

Our proprietary process development and patent strategy allow us to develop high quality extracts. Using the latest technologies and protected knowledge, we focus on developing valuable cosmetic ingredients from sustainable biomass raw materials.

### Bio-Based Solvents & Green Extraction Technologies

- ▶ **A-Leen® process:** hydrophilic Actives & Multifunctionals.
- ▶ **Viridisol® M process:** innovative lipophilic extracts.



### Why Choose Us?

- ✓ **70+ years of experience** in bio-based solvent innovation.
- ✓ **Fully Traceable Supply Chain:** from solvent production to final extracts.
- ✓ Supported by leading **academic research**.

With advanced expertise in bio-based solvents and green extraction processes, we provide strong technical support, ensuring the stability, compatibility, and regulatory compliance of every ingredient we deliver.

**Unveil nature's full potential with MINASOLVE expertise.**

**Get in touch with us to work together on your projects.**

# Upcycling

Sustainable responsible concept



Upcycling is a responsible concept, aimed at **transforming waste** destined for disposal into **value-added products**. MINASOLVE proposes an increasing number of upcycled solutions:



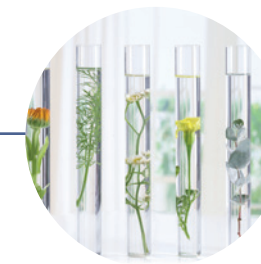
#### A-Leen 5 (p. 4)

Obtained by upcycling sugarcane bagasse.



#### A-Leen Aroma-3 (p. 6)

Made by upcycling of cinnamon by-products.



#### Hydra-Leens (p. 22-23)

Scented waters that are obtained as a by-product of the steam distillation of essential oils.

## Formulation aKademy

### Training courses at Minasolve

**Sharing ideas** is a driving force for innovation. We therefore offer practical training courses for cosmetic formulators at our Formulation aKademy in Louvain-la-Neuve, Belgium. The location is 30 km south of Brussels and offers favourable international transport connections. The direct, hands-on collaboration between cosmetic formulators and our technical team is an excellent opportunity for our guests to **gain inspiration** for their daily work.

Please do not hesitate to contact us if you are interested in participating in our Formulation aKademy.

We look forward to welcoming you!

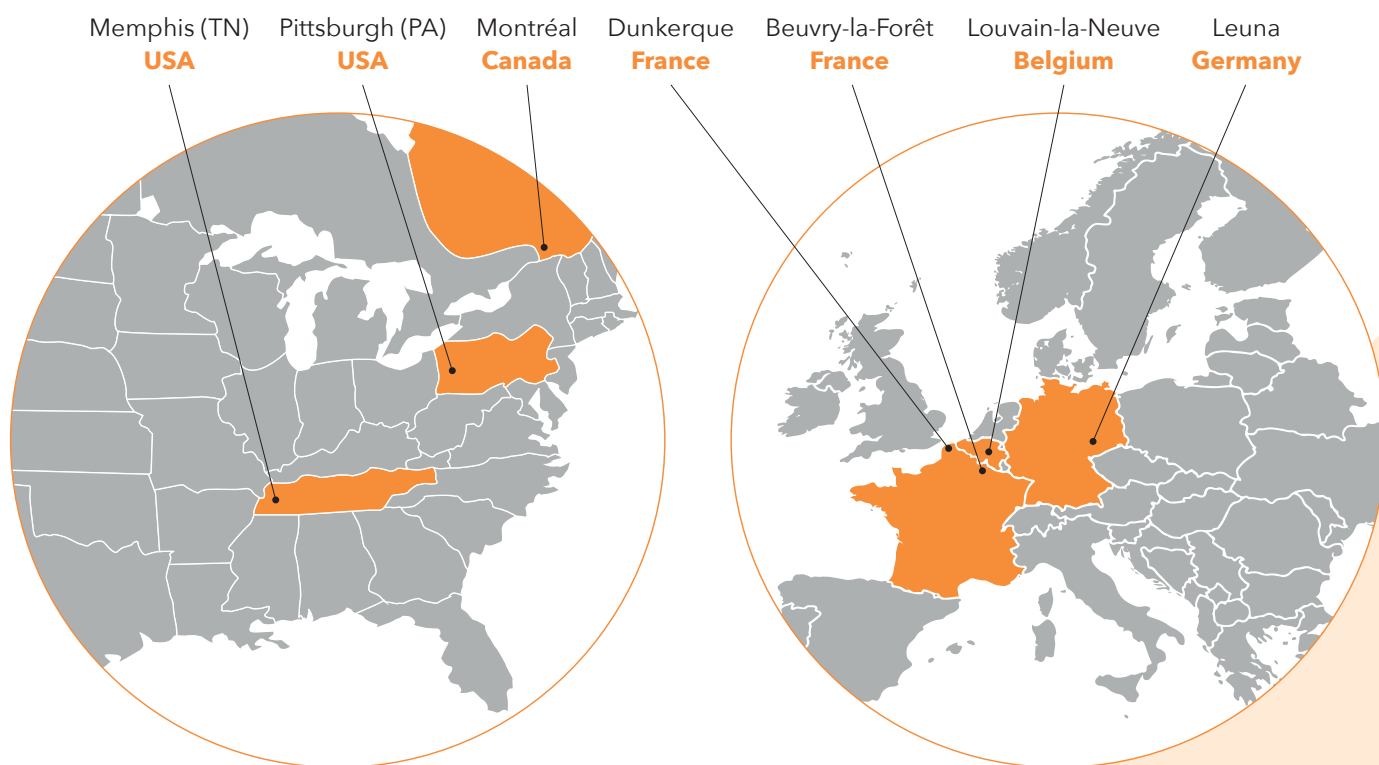


# Minasolve® is an affiliate of Minafin® Group

Created in 2004, The Minafin® Group is an expert in Health Chemistry, Green Chemistry and Challenging Chemistry. Activities include industrial subcontracting, development of chemical syntheses and industrial scale-up of custom-made processes as well as proprietary products with high added value for the pharmaceutical, cosmetics, agriculture and high-tech industries. Strong synergies exist between all business units: MINASOLVE, MINAKEM, PENNAKEM, PRESSURE CHEMICAL and MINASCENT.

**Serving market leaders as well as emerging players** we support our customers' efforts to improve the quality of life in the global community by:

- Improving our chemistry and operational excellence today
- Creating and innovating for tomorrow
- Driving our enterprises together to **go beyond expectations**.



**300**  
M€ SALES



**1050**  
EMPLOYEES



**150**  
SCIENTISTS



**7**  
PRODUCTION  
SITES

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GROUP

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