

Aleen 5

FROM BIOMASS TO COSMETIC

Biosourced odourless Pentylene Glycol

- Anti-microbial
- Solubilizer
- Emollient
- Extraction solvent
- Moisturizer



Specifications and Characteristics

INCI	Pentylene Glycol
CAS REG. N°	5343-92-0
APPEARANCE	Colourless liquid
ODOUR	Odourless
PURITY	Min. 99.0 %
SOLUBILITY	Hydrophilic, readily soluble in water and alcohol
RECOMMENDED PH OF USE	3.0 ▶ 10.0
RECOMMENDED USE LEVEL	0.5 ▶ 5.0 %
REGULATORY STATUS	Globally approved
ORIGIN	derived-natural, 100 % renewable carbon
NATURAL ORIGIN INDEX	1 (ISO 16128)
CHEMICAL STUTURE	

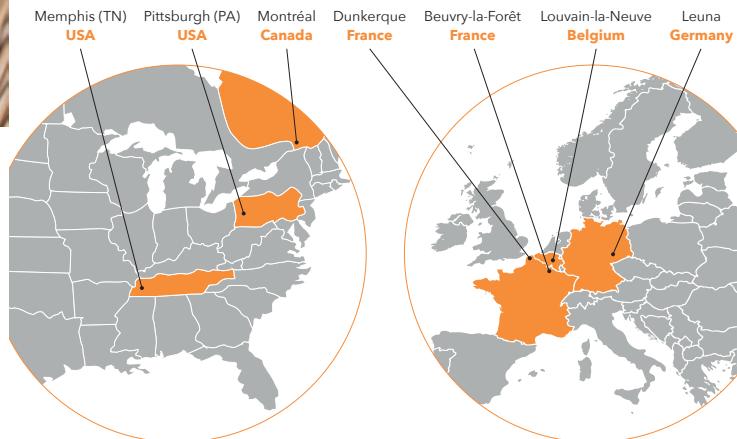


MINASOLVE® is an affiliate of MINAFIN® Group

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

Minasolve Solutions to Protect Your Formulations with Aleen 5

Biosourced odourless Pentylene Glycol

- E-Leen Green A



- E-Leen Green B

- E-Leen Green C

- EasySafe Green A

- EasySafe Hexam+

MINAFIN
GROUP

2023.12. V8.1

MINASOLVE
BIO-INGREDIENTS FOR YOUR APPLICATIONS

green
solving
attitude.

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Minasolve proposes an innovative range of ready to use solutions based on A-Leen 5. All ingredients have broad-spectrum antimicrobial and long-lasting skin humectant properties.

MINASOLVE®
BIO-INGREDIENTS FOR YOUR APPLICATIONS

Bio-based chemistry is penetrating all market segments and is promoted more and more to consumers of final products. Cosmetic and beauty care are industries where this trend is strongly growing and provides challenges to the key players to develop new formulations in line with consumer demands. New formulations mean new ingredients with a stronger sustainable approach for the production of the raw material and the final products. **Minasolve is helping in such achievement by proposing bio-ingredients developed under green chemistry principles** to cope with market demands

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Specifications and Characteristics

	EasySafe Green A	E-Leen Green A	E-Leen Green B	E-Leen Green C	EasySafe Hexam+
INCI	Pentylene Glycol, Phenylpropanol	Pentylene Glycol, Aqua Sodium Benzoate, Benzoic Acid	Pentylene Glycol, Glyceryl Caprylate/Caprate	Pentylene Glycol, Water, Hexamidine Diethionate	
pH range of activity	unlimited	soluble at ≤ 3%	3 ▪ 6	4 ▪ 7	3.5 ▪ 6
Water solubility	soluble	soluble	dispersible	soluble	
ECOCERT/COSMOS	no	approved	approved	yes	no
Listed preservative free	yes	yes	no	yes	no
Natural origin index (ISO 16128)	0.69	1	0.88	1	0.95
Odor	faint, aromatic	faint, aromatic	odorless or faint	odorless or faint	odorless or faint
Microbicide effect	yeast/mold/bacteria	yeast/mold/bacteria	yeast/(mold)/bacteria	yeast/(mold)/bacteria	yeast/mold/bacteria
Recommended use level	1.0 ▪ 3.0%	1.0 ▪ 3.0%	1.0 ▪ 3.0% (max 5%)	1.0 ▪ 3.0%	0.2 ▪ 2.0%

Performance in microbial challenge tests

EasySafe Green A Phenylpropanol	E-Leen Green A Phenylpropanol(nature-derived)	E-Leen Green B Benzoic Acid/Sodium Benzoate	E-Leen Green C Glyceryl Caprylate/Caprate	EasySafe Hexam+ Hexamidine Diethionate
pH % 1,5%	A	2,0% 3,0%	2,0% 3,0%	2,0% 3,0%
4.5	A	●	A	● A
5.5	A	●	A	● A
6.0	A	●	B	A
6.5	A	●	●	A
7.0	A	●	●	B
8.0	A	A	●	● ●
4.5	B	A	●	B B
5.5	A	●	A	B A
7.0	A	●	●	B B
8.0	A	●	●	● ●
Sulfate Free Shampoo				

A Challenge test result, fulfills criteria A/B of ISO 11930 **B** Likely to fulfill criteria A of ISO 11930 **C** Likely to fulfill criteria A/B of ISO 11930 **D** Not suitable for this application

The given information is accurate to the best of our knowledge. Buyers are advised to make their own studies on the usefulness of any product for a particular application or purpose. Recommended usage information is only provided as indication, and should not be considered as recommendations to use the products in violation of any patents, intellectual property rights, laws, or regulations relating, but not limited to, manufacture, composition, product design or end usage.