



## Specifications and Characteristics

INCI	1,2-Hexanediol
CAS REG. N°	6920-22-5
APPEARANCE	Clear, colourless liquid
ODOUR	Faint, characteristic
MELTING POINT	0-5°C
SOLUBILITY	Hydrophilic, readily soluble in water
RECOMMENDED pH OF USE	2.0 ▶ 12.0 (unlimited)
RECOMMENDED USE LEVEL	0.1 ▶ 3.0%
NATURAL ORIGIN INDEX	1 (ISO 16128)

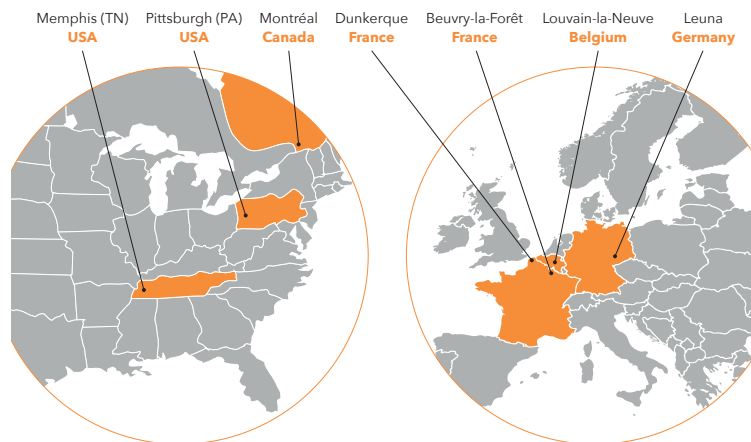
The given information is accurate to the best of our knowledge. Buyers are advised to make their own studies on the usefulness of any product for a particular application or purpose. Recommended usage information is only provided as indication, and should not be considered as recommendations to use the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

## 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

**MINAFIN**  
GROUP

# A leen 6

## GREEN MULTIFUNCTIONAL INGREDIENT

### BIO-BASED 1,2-HEXANEDIOL

### PRODUCT PROTECTION & MOISTURIZER

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



NATRUE  
APPROVED



Approved by  
**ECOCERT**  
RAW MATERIAL



USDA  
CERTIFIED  
BIOBASED  
PRODUCT  
100%



CHINA  
COMPLIANT

**MINASOLVE**  
BIO-INGREDIENTS FOR YOUR APPLICATIONS

green  
solving  
attitude.

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2025.03. V1.1

## A-Leen 6 from MINASOLVE

### LESS COMPLEXITY, MORE PERFORMANCE

**A-Leen 6**, manufactured by Minasolve, is a multifunctional ingredient that enhances product protection while providing moisturizing benefits.

For decades, the beauty industry has relied on 1,2-hexanediol for product protection. Minasolve now offers a **fully sustainable version** of this proven ingredient for modern cosmetic formulations. With **A-Leen 6** (INCI: 1,2-Hexanediol), sustainability and efficacy are perfectly balanced.

As more consumers experience sensitive skin and inflammation, the demand for gentle yet effective ingredients grows.

**A-Leen 6** meets this need, providing versatile skin benefits while being sourced from a **fully certified supply chain**. It acts as **solvent, humectant** and **emollient** with **protective properties**.

**A-Leen 6** enables to create minimalistic cosmetic formulations. It helps to create self-preserved products with enhanced mildness compatible with all skin types, including sensitive skin.

Suitable for **both conventional and natural cosmetics**, **A-Leen 6** is the ideal solution for brands seeking efficacy, sustainability, and innovation - all in one ingredient.

### A-Leen 6 is produced as follow :



- ✓ Made from 100% RSPO-MB certified palm kernel oil.
- ✓ Eco-friendly and solvent-free green chemistry process.
- ✓ Few chemical steps away from the natural oil.

## Antimicrobial activity

Challenge test results (ISO 11930) in O/W emulsion, pH 5.5



Phase	Raw material	INCI	%
A	Water	Aqua	ad 100.0
	<b>A-Leen 6</b> <sup>(1)</sup>	<b>1,2-Hexanediol</b>	<b>0.0 or 2.0</b>
	Xanthan Gum PC <sup>(2)</sup>	Xanthan Gum	0.5
B	Emulgade PL 68/50 <sup>(3)</sup>	Cetearyl Glucoside (and) Cetearyl Alcohol	5.0
	Shea Butter <sup>(4)</sup>	Butyrospermum Parkii (Shea) Butter	3.0
	Joboba Oil <sup>(4)</sup>	Simmondsia Chinensis (Jojoba) Oil	3.0
	Hazelnut Oil <sup>(5)</sup>	Corylus Avellana (Hazel) Seed Oil	3.0
C	Bioxan T70 <sup>(6)</sup>	Tocopherol	0.1
D	Citric Acid (5% aq.)	Aqua (and) Citric Acid	pH 5.5

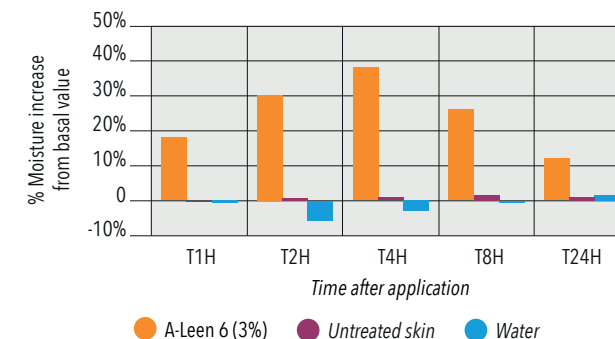
#### Raw material suppliers:

<sup>(1)</sup> Minasolve <sup>(2)</sup> Jungbunzlauer <sup>(3)</sup> BASF <sup>(4)</sup> Caesar & Loretz <sup>(5)</sup> Sanabio <sup>(6)</sup> BTSa

**A-Leen 6** turned the formulation into a self-preserving product that **passed the challenge test with criteria A**.

## Skin moisturizing effect

Corneometry study over 24 hours - A-Leen 6 tested on 12 volunteers in aqueous solution



**A-Leen 6** is an efficient skin moisturizer with a long-lasting effect.

## Applications

**A-Leen 6** is an **easy-to-handle liquid** that readily dissolves in water.

For **optimum antimicrobial efficacy** in emulsions, **A-Leen 6** can be added either upfront in the water phase, or once the emulsion has been made and cooled down to < 40°C. Late addition helps to maintain the original viscosity of the formulation.

**A-Leen 6** is an efficient **solvent for lipophilic active ingredients** (e.g. perfumes) and helps to stabilize them in aqueous solutions.

**A-Leen 6** also **helps disperse pigments** (e.g. TiO<sub>2</sub>, Mica, Carmine), especially in high viscosity formulations.

