

# A-Leen 5

## I- GENERAL INFORMATION

**Trade name:** A-Leen 5  
**INCI name:** Pentylene Glycol  
**Minasolve Code:** PFS0008/G  
**Function:** Humectant, solvent, skin-conditioner, anti-microbial agent

**Supplier:** Minasolve S.A.S  
 145, Chemin des Lilas  
 59310 Beuvry-la-Forêt, France  
 +33 3 20 64 3001

## II- REGULATORY INFORMATION

### 1- Compliance with cosmetic regulation

<b>EUROPE</b> (European Cosmetic Regulation (EC) No 1223/2009)	Approved
<b>U.S.A.</b> (FD&C Act— 21 CFR 700 to 740)	Approved
<b>CANADA</b> (Food and Drugs Act and Cosmetic Regulations)	Approved
<b>AUSTRALIA</b> (Notification & Assessment Act 1989, as amended—TGA)	Approved
<b>JAPAN</b> (Pharmaceutical Affairs Law - regulations for cosmetics)	Approved
<b>KOREA</b> (Cosmetics Law - Korea Food & Drug Administration KFDA)	Approved
<b>CHINA</b> (IECIC 2015)	Approved

### 2- Chemical inventory status

EU (EINECS)	USA (TSCA)	CANADA (DSL/NDSL/ R-ICL)	AUSTRALIA (AICS)	CHINA (IECSC)	JAPAN (ENCS)	KOREA (KECI/ECL)	NEW ZEALAND (NZIoC)
Listed	Listed	NDL + R-ICL	Listed	Listed	Listed	Listed	Listed

### 3- Natural certification status

Ingredient Ecocert certified: YES ☒ NO ☐  
 Ingredient COSMOS approved: YES ☒ NO ☐  
 Ingredient NATRUE approved: YES ☒ NO ☐  
 USDA certified biobased product: YES ☒ NO ☐

## III- PRODUCT COMPOSITION

Substance	%	INCI name	CAS n°	EC n°
1	100	Pentylene Glycol	5343-92-0	226-285-3

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.

# A-Leen 5

## IV- TOXICOLOGICAL DATA

### 1- Toxicological data

TESTS	DATA
<b>Acute Toxicity</b>	<b>Oral</b> (OECD 401, rat): <b>LD<sub>50</sub></b> > 5000mg/kg bw <b>Inhalation</b> (OECD 403, rat, 4h): <b>LC<sub>50</sub></b> > 7015 mg/m <sup>3</sup> air <b>Dermal</b> (OECD 402, rat, 24 h): <b>LD<sub>50</sub></b> > 2000 mg/kg
<b>Skin penetration</b>	No data available
<b>Irritation eye/skin</b>	<b>Eye</b> (OECD 405): <i>Irritating</i> <b>Skin</b> (OECD 404): <i>Not irritating</i>
<b>Skin sensitization</b>	<b>HRIPT</b> : <i>Negative</i> Repeated applications of the A-Leen 5 under occlusive patch (9 consecutive applications within 30 days, Finn Chamber, 20 µl per patch), on a panel of 101 subjects - 35 of which with sensitive skin - induced no irritation and no allergic reaction on skin. In conclusion, A-Leen 5 shows very good skin compatibility.
<b>Mutagenicity</b>	<b>AMES test</b> : <i>Negative</i> <b>Chromosome aberration</b> : <i>Negative</i>
<b>Genotoxicity</b>	<b>Oral</b> (OECD 422, rat): <b>NOAEL</b> = 1000 mg/kg bw/day
<b>Repeated dose toxicity</b>	<b>Dermal</b> (OECD 411, rat) <b>NOAEL</b> rat = 700 mg/kg bw/day
<b>Reproductive toxicity</b>	<i>No effects on reproduction</i> <i>No effects on development</i>
<b>Phototoxicity</b>	No data available

### 2- Ecotoxicological data

TESTS	DATA
<b>Bioaccumulative potential</b>	<b>Log P</b> = 0.06 at 25°C => <i>Accumulation in organisms is not expected</i>
<b>Solubility in water</b>	Miscible with water
<b>Acute aquatic ecotoxicity</b>	<b>OECD 203</b> (96 hours, Zebra fish): <b>LC<sub>50</sub></b> > 1096 mg/L <b>EU Directive 79/831/EWG Appendix V</b> (48 hours, Daphnia magna): <b>EC<sub>50</sub></b> > 500mg/L
<b>Biodegradation</b>	<b>OECD 301E</b> : <i>Readily biodegradable (73% within 28 days), but failing 10-day window</i>
<b>Volatization from water</b>	<b>Henrys Law Constant (25 deg C)</b> : <b>Bond Method</b> : 3.06E-007 atm-m3/mole <b>Group Method</b> : 2.62E-010 atm-m3/mole <i>Predicted by software HENRYWIN v3.10)</i>
<b>Mobility in soil</b>	<b>Adsorption coefficient</b> : <b>Koc</b> = 1 => <i>Adsorption in soil is not expected</i> <i>(Predicted by software EPIWin)</i>

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.