

# E-Leen Green C

## I- GENERAL INFORMATION

**Trade name:** E-Leen Green C  
**INCI name:** Pentylene Glycol (and) Glyceryl Caprylate/Caprate  
**Minasolve Code:** PFS0034  
**Functions:** Antimicrobial protection agent, Moisturizer, Emollient, Re-fatting agent

**Supplier:** Minasolve S.A.S  
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## II- REGULATORY INFORMATION

### 1- Compliance with cosmetic regulation

	Pentylene Glycol	Glyceryl Caprylate/Caprate
<b>EUROPE</b> (European Cosmetic Regulation (EC) No 1223/2009)	Approved	Approved
<b>U.S.A.</b> (FD&C Act— 21 CFR 700 to 740)	Approved	Approved
<b>CANADA</b> (Food and Drugs Act and Cosmetic Regulations)	Approved	Approved
<b>AUSTRALIA</b> (Notification & Assessment Act 1989, as amended—TGA)	Approved	Approved
<b>JAPAN</b> (Pharmaceutical Affairs Law - regulations for cosmetics)	Approved	Approved
<b>KOREA</b> (Cosmetics Law - Korea Food & Drug Administration KFDA)	Approved	Approved
<b>CHINA</b> (IECIC 2015)	Approved	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)
<b>Pentylene Glycol</b>	Listed	Listed	NDSL + R-ICL	Listed	Listed	Listed	Listed	Listed
<b>Glyceryl Caprylate/Caprate</b>	Listed	Not listed	R-ICL	Listed	Listed	Listed	Listed	Listed

### 3- Natural certification status

Ingredient ECOCERT certified: YES ☒ NO ☐  
 Ingredient COSMOS approved: YES ☒ NO ☐  
 Ingredient compliant with Natrue: YES ☒ NO ☐  
 USDA certified bio-based product: YES ☐ NO ☒

## III- PRODUCT COMPOSITION

Substance	%	INCI name	CAS n°	EC n°
1	85-90	Pentylene Glycol	5343-92-0	226-285-3
2	10-15	Glyceryl Caprylate/Caprate	85536-07-8	287-488-0

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.

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## IV- TOXICOLOGICAL DATA

### 1- Toxicological data

TESTS	Pentylene Glycol	Glyceryl Caprylate/Caprate
<b>Acute Toxicity</b>	<b>Oral</b> (OECD 401, rat): <b>LD<sub>50</sub></b> > 5000 mg/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>- Oral</b> (OECD 401, mouse): <b>LD<sub>50</sub></b> > 23 625 mg/kg bw <b>- Dermal</b> (OECD 402, rat, 24 h): <b>LD<sub>50</sub></b> > 2 000 mg/kg bw <b>- Inhalation</b> (OECD 403, rat, 6h): <b>LC<sub>50</sub></b> > 1.860 mg/L air
<b>Skin penetration</b>	No data available	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</b> (EPA OPP 81-5, rabbit): Not irritating <b>- Eye</b> (EPA OPP 81-4, rabbit): Not irritating
<b>Skin compatibility and sensitization</b>	<b>HRIP</b> : negative (tested material: undiluted E-Leen Green C) Repeated applications of E-Leen Green C under occlusive patch (9 consecutive applications within 30 days, Finn Chamber, 20 µl per patch) on a panel of 55 subjects – 6 of which with sensitive skin – induced no irritation and no allergic skin reaction. In conclusion, E-Leen Green C showed very good skin compatibility.	
<b>Genetic toxicity</b>	<b>AMES test</b> : <i>Negative</i> <b>Chromosome aberration</b> : <i>Negative</i>	Mutagenicity in bacteria, clastogenic effects in mammalian cells, mutagenicity in mammalian cells: No adverse effect observed (negative).
<b>Repeated dose toxicity</b>	<b>Oral</b> (OECD 422, rat): <b>NOAEL</b> = 1000 mg/kg bw/day <b>Dermal</b> (OECD 411, rat) <b>NOAEL</b> rat = 700 mg/kg bw/day	<b>Oral</b> (OECD 407, rat): <b>NOAEL</b> = 1000 mg/kg bw/day
<b>Reproductive toxicity</b>	<i>No effects on reproduction</i> <i>No effects on development</i>	<b>- No effects on reproduction</b> (OECD Guideline 422). <b>- No effect on intrauterine development</b> (OECD Guideline 426).
<b>Phototoxicity</b>	No data available	No data available

### 2- Ecotoxicological data

TESTS	Pentylene Glycol	Glyceryl Caprylate/Caprate
<b>Bio-accumulative potential</b>	<b>Log P</b> = 0.06 at 25°C => <i>Accumulation in organisms is not expected</i>	Low potential to bioaccumulate in terrestrial ecosystems
<b>Solubility in water</b>	Miscible with water	46 mg/L at 20°C, pH = 5.99-6.65 (EU A.6)
<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>- Short-term toxicity to fish and aquatic invertebrates</b> : no toxicity up to the limit of water solubility (WS 46 mg/L). <b>- Toxicity to aquatic algae and cyanobacteria</b> : <b>ErL<sub>50</sub></b> (72h, nominal, loading rate) = 49 mg/L <b>NOErLR</b> (72h, nominal, loading rate) = 20.7 mg/L <b>NOEC</b> (72h, measured concentration) = 1.19 mg/L <b>- Toxicity to microorganisms</b> : <b>NOEC</b> = 46.9 mg/L (from ready biodegradation test, 81.1% biodegradation in toxicity control within 14 days).
<b>Biodegradation</b>	<b>OECD 301E</b> : <i>readily biodegradable (73% within 28 days), but failing 10-day window</i>	Readily biodegradable: 82.6% within 28 days (OECD 301B)
<b>Volatization from water</b>	<b>Henrys Law Constant (25 deg C)</b> : <b>Bond Method</b> : 3.06E-007 atm-m <sup>3</sup> /mole <b>Group Method</b> : 2.62E-010 atm-m <sup>3</sup> /mole <i>Predicted by software HENRYWIN v3.10)</i>	No data available; Vapour pressure < 0.001 Pa
<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>	Due to low water solubility and low volatilization potential in combination with its potential for adsorption to solid particles (log Koc 0.42 -3.79), the substance may be distributed in the water, sediment and soil compartments if released into the environment. Nevertheless, due to its ready biodegradability, persistence of the substance in these compartments is not expected.

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