

E-Leen Green OR

I- GENERAL INFORMATION

Trade name:	E-Leen Green OR
INCI name:	Pentylene Glycol, Glycerin, Citrus Aurantium Amara (Bitter Orange) Fruit Extract, Citrus Reticulata (Tangerine) Fruit Extract, Citrus Aurantium Sinensis (Orange) Peel Extract, Ascorbic Acid, Citric Acid, Lactic Acid
Minasolve code:	PFS0036
Functions:	Antimicrobial protection agent, Moisturizer, Antioxidant
Supplier:	Minasolve S.A.S 145, Chemin des Lilas 59310 Beuvry-la-Forêt, France Tel. +33 3 20 64 3001

II- REGULATORY INFORMATION

1- Compliance with cosmetic regulation

EUROPE (European Cosmetic Regulation (EC) No 1223/2009)	Approved
U.S.A. (FD&C Act— 21 CFR 700 to 740)	Approved
CANADA (Food and Drugs Act and Cosmetic Regulations)	Approved
AUSTRALIA (Notification & Assessment Act 1989, as amended—TGA)	Approved
JAPAN (Pharmaceutical Affairs Law - regulations for cosmetics)	Approved
KOREA (Cosmetics Law - Korea Food & Drug Administration KFDA)	Approved
CHINA (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)
Pentylene Glycol	Listed	Listed	NDL + R-ICL	Listed	Listed	Listed	Listed	Listed
Citrus Aurantium Amara Fruit Extract	Listed	Not Listed	DSL	Listed	Listed	Not Listed	Not Listed	Listed
Citrus Reticulata Fruit Extract	Listed	Listed	DSL	Listed	Listed	Not Listed	Listed	Listed
Citrus Aurantium Sinensis Peel Extract	Listed	Not Listed	NDL	Not Listed	Listed	Not Listed	Listed	Not Listed

Summary: Complies with EINECS/ELINCS, TSCA, DSL/NDL, AICS, IECSC, ENCS, KECL, NZIoC

3- Natural certification status

Ingredient ECOCERT certified:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Ingredient COSMOS approved:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
Ingredient compliant with Natrue:	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
USDA certified bio-based product:	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>

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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III- PRODUCT COMPOSITION

Component	%	INCI name	CAS n°	EC n°
1	85-93	Pentylene Glycol	5343-92-0	226-285-3
2	4-7	Glycerin	56-81-5	200-289-5
3	3-5	Citrus Aurantium Amara (Bitter Orange) Fruit Extract, Citrus Reticulata (Tangerine) Fruit Extract, Citrus Aurantium Sinensis (Orange) Peel Extract	72968-50-4 8008-31-9 97766-30-8	277-143-2 284-521-0 307-891-8
4	≤ 0,5	Ascorbic Acid	50-81-7	200-066-2
5	≤ 0,2	Citric Acid	77-92-9	201-196-2
6	≤ 0,2	Lactic Acid	77-33-4	231-791-2
7	≤ 3	Water*		

* Water is not explicitly mentioned in the INCI name of E-Leen Green OR, as it corresponds to residual moisture only

IV- TOXICOLOGICAL DATA

1- Toxicological data

TESTS	Pentylene Glycol	Citrus Extracts in Glycerin
Acute Toxicity	Oral (OECD 401, rat): LD₅₀ > 5000 mg/kg bw Inhalation (OECD 403, rat, 4h): LC₅₀ > 7015 mg/m ³ air Dermal (OECD 402, rat, 24 h): LD₅₀ > 2000 mg/kg	Oral: LD₅₀ > 2000 mg/kg bw Dermal: Low acute toxicity
Skin penetration	No data available	No data available
Irritation eye/skin	Eye (OECD 405): Irritating Skin (OECD 404): Not irritating	Eye: Mild eye irritant Skin: Not irritating
Skin compatibility and sensitization	HRIPT: Negative Repeated applications of E-Leen Green OR, under occlusive patch (9 consecutive applications within 30 days, Finn Chamber, 40 µl per patch), on a panel of 103 subjects - 53 of which with sensitive skin - induced no irritation and no allergic reaction on skin. In conclusion, E-Leen Green OR shows very good skin compatibility.	
Mutagenicity	AMES test: Negative	Contains no ingredients above reportable quantities listed as a carcinogen.
Genotoxicity	Chromosome aberration: Negative	
Repeated dose toxicity	Oral (OECD 422, rat): NOAEL = 1000 mg/kg bw/day Dermal (OECD 411, rat) NOAEL rat = 700 mg/kg bw/day	No data available
Reproductive toxicity	No effects on reproduction No effects on development	No data available No data available
Phototoxicity	No data available	No data available

2- Ecotoxicological data

TESTS	Pentylene Glycol	Citrus Extracts in Glycerin
Bioaccumulative potential	cLog P = 0.06 at 25°C → Accumulation in organisms is not expected	Glycerin (extraction solvent): cLog P = - 1,76 at 20°C → Not expected to be bio-accumulative
Solubility in water	E-Leen Green OR is miscible with water	
Acute aquatic ecotoxicity	OECD 203 (96 hours, Zebra fish): LC₅₀ > 1096 mg/L EU Directive 79/831/EWG Appendix V (48 hours, Daphnia magna): EC₅₀ > 500 mg/L	Glycerin (fish): 96 hours (<i>Oncorhynchus mykiss</i>): LC₅₀ = 51-57 mL/L Glycerin (water flea): 24 hours (<i>Daphnia magna</i>): EC₅₀ > 500 mg/L
Biodegradation	OECD 301E: readily biodegradable (73 % within 28 days) but failing 10-day window	Readily biodegradable
Volatization from water	Henrys Law Constant (25 deg C): Bond Method : 3.06E-007 atm-m3/mole Group Method: 2.62E-010 atm-m3/mole Predicted by software HENRYWIN v3.10)	No data available
Mobility in soil	Adsorption coefficient: Koc = 1 => Adsorption in soil is not expected (Predicted by software EPIWin)	Adsorbs on soil.

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