EasySafe Green A

I- GENERAL INFORMATION

Trade name: **EasySafe Green A**
INCI name: Pentylene Glycol (and) Phenylpropanol
Minasolve code: PFS0035
Functions: Antimicrobial protection agent, Moisturizer, Solvent, Perfuming, Masking

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

Region	Pentylene Glycol	Phenylpropanol
EUROPE (European Cosmetic Regulation (EC) No 1223/2009)	Approved	Approved
U.S.A. (FD&C Act— 21 CFR 700 to 740)	Approved	Approved
CANADA (Food and Drugs Act and Cosmetic Regulations)	Approved	Approved
AUSTRALIA (Notification & Assessment Act 1989, as amended—TGA)	Approved	Approved
JAPAN (Pharmaceutical Affairs Law - regulations for cosmetics)	Approved	Approved
KOREA (Cosmetics Law - Korea Food & Drug Administration KFDA)	Approved	Approved
CHINA (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)
Pentylene Glycol	Listed	Listed	NDSL + R-ICL	Listed	Listed	Listed	Listed	Listed
Phenylpropanol	Listed	Listed	DSL	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	70-80	Pentylene Glycol	5343-92-0	226-285-3
2	20-30	Phenylpropanol	122-97-4	204-587-6

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	Phenylpropanol
Acute Toxicity	**Oral** (OECD 401, rat): **LD_{50}** > 5000 mg/kg bw **Inhalation** (OECD 403, rat, 4h): **LC_{50}** >7015 mg/m³ air **Dermal** (OECD 402, rat, 24 h): **LD_{50}** > 2000 mg/kg	**- Oral** (OECD 401, rat): **LD_{50}** = 2250 mg/kg bw **- Dermal** (OECD 402, rabbit, 24 h): **LD_{50}** < 5000 mg/kg bw
Skin penetration	No data available	No data available
Irritation eye/skin	**Eye** (OECD 405): Irritating **Skin** (OECD 404): Not irritating	**- Skin** irritation (OECD 439): irritating - **Eye** irritation: irritating (based on results on skin)
Skin compatibility and sensitization	**HRIPT**: negative (tested material: undiluted EasySafe Green A) Repeated applications of EasySafe Green A 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 irritative and no allergic skin reaction. In conclusion, EasySafe Green A showed a very good skin compatibility.	
Genetic toxicity	**AMES test:** Negative **Chromosome aberration:** Negative	The test substance was not mutagenic in the bacterial reverse mutation assay and in the in vitro mammalian cell gene mutation assay (HPRT). The test item did not induce micronuclei in the in vitro micronucleus test in human lymphocytes.
Repeated dose toxicity	**- Oral** (OECD 422, rat): **NOAEL** = 1000 mg/kg bw/day **- Dermal** (OECD 411, rat) **NOAEL** rat = 700 mg/kg bw/day	**NOAEL** (oral, rat) = 1000 mg/kg bw/day (OECD 422)
Reproductive toxicity	No effects on reproduction No effects on development	**NOAEL** (oral, rat) = 300 mg/kg bw/day (OECD 422)
Phototoxicity	No data available	No data available

2- Ecotoxicological data

TESTS	Pentylene Glycol	Phenylpropanol
Bioaccumulative potential	**Log P =** 0.06 at 25°C => Accumulation in organisms is not expected	**Log P =** 1.6 at 35°C => Accumulation in organisms is not expected
Solubility in water	EasySafe A is soluble up to 3 wt.-%, effective stirring may be necessary for complete solubilization	
Acute aquatic ecotoxicity	**OECD 203** (96 hours, Zebra fish): **LC_{50}** >1096 mg/L **EU Directive 79/831/EWG Appendix V** (48 hours, Daphnia magna): **EC_{50}** > 500mg/L	**LC_{50}** (Zebra fish, 96h) = 61 mg/L (OECD 203) **EC_{50}** (Daphnia magna, 48h) = 60.6 mg/L (OECD 202)
Biodegradation	**OECD 301E:** Readily biodegradable (73 % within 28 days), but failing 10-day window	Readily biodegradable: 83 % within 28 days (OECD 301F)
Volatization from water	**Henrys Law Constant (25 °C):** **Bond Method :** 3.06E-007 atm-m3/mole **Group Method:** 2.62E-010 atm-m3/mole Predicted by software HENRYWIN v3.10)	**Henrys Law Constant (20 °C):** 0.436 Pa m³/mol (calculated according to ECHA guidance R.16)
Mobility in soil	**Adsorption coefficient:** **Koc =** 1 => Adsorption in soil is not expected (Predicted by software EPIWin)	No data available

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