

Elage

I- GENERAL INFORMATION

Trade name: Elage
INCI name: Ellagic Acid
Minasolve Code: PFS0018
Function: Skin lightening agent

Supplier: Minasolve S.A.S
 145, Chemin des Lilas
 F-59310 Beuvry-la-Forêt
 +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, QD required
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)
Listed	Not listed	Not listed	Not listed	Listed	Listed	Not listed	Not listed

3- Natural certification status

Ingredient Ecocert certified: YES ☒ NO ☐
 Ingredient COSMOS approved: YES ☐ NO ☒
 Ingredient compliant with Natrue: YES ☒ NO ☐
 USDA certified biobased product YES ☐ NO ☒

III PRODUCT COMPOSITION

Substance	%	INCI name	CAS N°	EC N°
1	100	Ellagic Acid	476-66-4	207-508-3

The given information is accurate to the best of our knowledge. Customers are advised to perform their own studies on the usefulness of any ingredient for a particular application. Any recommended usage information is only provided as indication, and should not be considered as recommendation to violate 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	DATA
Acute Toxicity	Oral: LD₅₀ > 5000 mg/kg (Wistar rat) LD₅₀ > 5000 mg/kg (Swiss albino mouse)
Skin penetration	No data available
Irritation eye/skin	Eye: not irritating Skin: not irritating
Skin sensitization	No data available
Mutagenicity	AMES test: Negative
Genotoxicity	CHO-K1 cells treated with Ellagic Acid 0.05 - 0.3 mmol/l: no statistically significant increase in chromosome aberrations and endoreduplications
Repeated dose toxicity	NOAEL: 3254 mg/kg bw./day (female F344 rats) NOEL: 778 mg/kg bw./day (female F344 rats)
Reproductive toxicity	No data available
Phototoxicity	No data available

2- Ecotoxicological data

TESTS	DATA
Bio-accumulative potential	Log KOW = -2.51 (KOWWIN v1.67 estimate) => Not expected to bio-accumulate in the environment
Solubility in water	< 0.1 g/L at 20 °C
Acute aquatic ecotoxicity	Green Algae (Selenastrum capricornutum): MIC > 100 µmol/L Blue-Green Algae (Microcystis aeruginosa): EC ₅₀ = 5.1 mg/L Invertebrates (Daphnia magna): LC ₅₀ = 2.77 mg/L (predictive acute toxicity by QSAR modeling) Fish: Embryos of Danio rerio (zebrafish) were treated with 20 mmol/l each of ellagic acid and dichloroacetic acid: groups that were co-treated with ellagic acid and dichloroacetic acid had fewer animals (ca. 10%) with physical toxic effects of lordosis and up to 80% more animals capable of swimming and feeding than the group treated with dichloroacetic acid alone.
Biodegradation	OECD 301F: Readily biodegradable, passing 10-day window (84% biodegradation within 28 days, 73% within 10 days)
Volatization from water	Not volatile
Mobility in soil	Soil Adsorption Coefficient: (PCKOCWIN v1.66) Koc = 3418 Log Koc = 3.534 => Expected to be not mobile in soil Predicted by software

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