

TECHNICAL DATA SHEET

Effective date: 09.2024

Safflower Oil

INFORMATION ON SUBSTANCE / MIXTURE

INCI	Carthamus Tinctorius Oil
Botanical name	Carthamus tinctorius L.
Manufacturing process	Fatty oil obtained from seeds of Carthamus tinctorius L by pressure and extraction followed by refining.
Raw material category	Ingredient for cosmetic formulations, personal care

TECHNICAL DATA

Physical parameters

Appearance	Liquid
Color	Yellow
Odor	Characteristic, mild
Relative density at 20°C	0.918 – 0,924
Refractive index at 20°C	1.473 – 1,479
Water content	Max. 0.1 %
Acid value	Max. 0.5 mg KOH/g
Peroxide value	Max. 10.0 meq O ₂ /kg
Unsaponifiable matter	Max. 1.5 %

Chemical parameters

Fatty acid composition	%
Saturated fatty acids < C:14	Max. 0.2
Myristic acid C14:0	Max. 0.2
Palmitic C16:0	4.0 – 10.0
Stearic C18:0	1.0 – 5.0
Oleic C18:1	8.0 – 21.0
Linoleic C18:2	68.0 – 83.0
Linolenic acid C18:3	Max. 0.5
Arachidic acid C20:0	Max. 0.5
Ecosenoic acid C20:1	Max. 0.5

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Behenic acid C22:0	Max. 1.0
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Biological parameters

Total aerobic microbial count	< 1000 cfu/ g
Total yeast and mould count	< 100 cfu/g
Pathogens (Escherichia coli, Candida albicans, Pseudomonas aeruginosa, Staphylococcus aureus)	Absent/1g

TRANSPORT, STORAGE and SHELF LIFE

Storage conditions	Store in closed container, in a cool and dry place, protected from direct sunlight.
Shelf Life	Min 24 months at the recommended storage conditions.

LEGISLATION, STATEMENTS

Regulatory Status	Product complies with Regulation (EU) No. 1223/2009 in all the defined requirements.
BSE/TSE	Produced in the absence of any animal derived material of any type. No contamination with BSE/ TSE Bovine Spongiform Encephalopathy risk materials is to be expected.
GMO status	Product does not come from plants being or having been submitted to a program of genetic modification.
Nanomaterial statement	Not expected to contain any nanomaterial meaning an insoluble or biopersistent and intentionally manufactured material with one or more external dimensions, or an internal structure, on the scale from 1 to 100 nm, as defined in Regulation (EC) No 1223/2009 on cosmetic products and the Commission Recommendation 2011/696/EU.
Microplastics	The product does not contain any Microplastic according to Annex XVII to REGULATION (EC) No 1907/2006 Of The European Parliament And Of The Council and its amendments.
Irradiation	This product has not been subjected to irradiation.
Gluten- Status	Not expected to contain gluten. The product can be considered as gluten-free as it does not contain ingredients derived from grain (e.g. wheat, rye or barley) or does not contain detectable levels of gluten.
Other Free from status	Volatile Organic Compound (VOC) as described in Directive 2004/42/CE, Dioxin, Formaldehyde, Phthalates, Ethanol

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Animal testing	This product has not been the subject of animal testing for cosmetic purposes according to EC Regulation 1223/2009
Information for Vegan Assessment	Vegan and Vegetarian suitable. Manufacture does not involve the use of any animal product, by-product or ingredient. This product meets Vegan requirements, but it is not certified.
CMR-Status	This product is free from substances classified as carcinogenic, mutagenic or toxic for reproduction (CMR) of category 1A, 1B or 2 under Part 3 of Annex VI to Regulation (EC) No 1272/2008 and its subsequent amendments.
Allergens	This product does not contain any of the allergenic substances or compounds listed in Regulation (EC) No. 1223/2009 Annex III amended by EU Regulation 1545/2023
CAS No.	8001-23-8

DISCLAIMER

All warranty claims in respect to the conformity of our product are subject to our General Terms and Conditions of Sale and Delivery. The data listed above reflects the results of the manufacturer respectively our supplier quality tests. We do not hereby make any express or implied warranty, whether for specific properties or for fitness for any particular application or purpose. All values are valid for the product when dispatched from the warehouse. We recommend you perform your own quality and or identification checks on receipt.