



TECHNICAL DATA SHEET

SAFFLOWER OIL

Form: TDS-001
Root Reference: 6427616660307
Effective date: 11.2023
Rev. 1

INFORMATION ON SUBSTANCE / MIXTURE

INCI	Carthamus tinctorius oil
Botanical name	Carthamus tinctorius L.
Country of origin	Netherlands
Manufacturing process	Fatty oil obtained from seeds of Carthamus tinctorius L by pressure and extraction followed by refining.
Part used	Seeds.

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
Acid value in mg KOH/g	Max. 0.5
Peroxide value	Max. 10.0 at 20°C
Iodine value	NA
Water content	Max. 0.1 %
Unsaponifiable matter	Max. 1.5 %

Chemical parameters

Fatty acid composition	%
Saturated fatty acids < C:14	Max. 0.2
Saturated fatty acids (C:14:0)	Max. 0.2
Palmitic acid (C 16:0)	4.0 – 10.0



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Stearic acid (C 18:0)	1.0 – 5.0
Oleic acid (C 18:1)	8.0 – 21.0
Linoleic acid (C 18:2)	68.0 – 83.0
Linolenic acid (C 18:3)	Max. 0.5
Arachidic acid (C 20:0)	Max. 0.5
Ecosenoic acid (C 20:1)	Max. 0.5
Behenic acid (C22:0)	Max. 1.0

LEGISLATION

Certification	-
CMR substances	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.
Nanomaterials	This product is not considered as a nanomaterial, and doesn't contain nanoparticles as defined by the European commission and as described in EU n°1223/2009 and 2012-232 (ANSES).
Animal testing	This product has not been tested on animals.
GMO	Non-GMO in accordance with regulations 1829/2003 EC & 1830/2003 EC.
Ionization	This product did not undergo any ionizing treatment and does not contain any ingredient or additive that was treated by ionization.
Pesticides	Contents in conformity with regulation 396/2005 EC and its last amendments.
PCB type dioxin	Contents in conformity with regulation 1259/2011EC.
Heavy metals	Contents in conformity with regulation 1881/2006 EC.
PAH (Polycyclic aromatic hydrocarbons)	Contents in conformity with regulation 835/2011 EC.
Aflotoxins	Contents in conformity with regulation 165/2010 EC.
EINECS	232-276-5
CAS	8001-23-8

TRANSPORT, STORAGE AND SHELF LIFE

Storage conditions	Store in closed containers, keep dry and avoid humidity at a temperature below 18°C. Vegetable oil which crystallizes at a temperature below 10°C
Shelf Life	Min 24 months, in closed packaging and the recommended conditions.



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