



**Sunflower oil**

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<b>General</b>	
Product description	100% vegetable oil (refined, bleached, winterised and deodorized sunflower oil)
Ingredient declaration	Sunflower oil
Additives	No additives
GMO status	GMO-free : in view of Regulation (EC) 1829/2003 and 1830/2003 this product is not subject to GM labeling and traceability requirements.
Country of origin	On request
Intended use	Suitable for use in the food industry Do not heat over 175°C

<b>Packaging, storage and shelf life</b>		
The packing is free from unwanted physical and chemical contamination and meets the European legislation EG 1935/2004 and EU 10/2011.		
Store in a dry and dark place at room temperature ( $\leq 20^{\circ}\text{C}$ ). Close after use.		
<i>Available in packaging:</i>	<i>Shelf life from manufacture:</i>	<i>Minimal shelf life at delivery:</i>
0,9, 1, 3, 5 and 10 liter PET	12 – 24 months	6 months
15 liter bag in box	18 months	9 months
20 liter HDPE		
1000 liter IBC	12 months	6 months

<b>Organoleptic characteristics</b>	
Texture	Liquid
Taste	Neutral
Odor	Neutral
Color	Pale yellow

<b>Physical and chemical characteristics</b>	
<b>Parameters</b>	<b>Norm</b>
Density at 20° C	918 - 923 kg/m <sup>3</sup>
Smoke point	~ 210°C
Flash point	~ 300°C
Peroxide value	Up to max 10,0 meq/kg (at the end of shelf life Codex Stan 210-1999)



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Fatty acids composition (%)		
Fatty acid	Min.	Max.
C14:0 Myristic acid	ND	0,2
C16:0 Palmitic acid	5	7,6
C16:1 Palmitoleic acid	ND	0,3
C18:0 Stearic acid	2,7	6,5
C18:1 Oleic acid	14	39,4
C18:2 Linoleic acid	48,3	74
C18:3 Linolenic acid	ND	0,3
C20:0 Arachidic acid	0,1	0,5
C20:1 Eicosenic acid	ND	0,3
C22:0 Behenic acid	0,3	1,5
C22:1 Erucic acid	ND	0,3
C24:0 Lignoceric acid	ND	0,5
Trans fatty acids		1

Average nutritional value		
	Per 100 g	Per 100 ml
Energy	3700 kJ / 900 kcal	3404 kJ / 828 kcal
Fat	100 g	92 g
of which saturates	8 - 12 g	7 - 11 g
mono-unsaturates	23 - 33 g	21 - 30 g
poly unsaturates	56 - 66 g	51 - 61 g
Carbohydrates	0 g	0 g
of which sugars	0 g	0 g
Proteins	0 g	0 g
Salt	0 g	0 g

**Microbiological characteristics**

Our refined oils and fats comply with the microbiological criteria for foodstuffs according to Directive (EC)2073/2005. Please note that refined oils and fats undergo a sterilization step and are then not susceptible to the growth of microorganisms due to the low water activity levels in commercially available refined oils and fats. Oils and Fats are deodorized according to FEDIOL Code of Practice (min 180°C for min 2 hrs), which effectively eliminates microbiological activity.

Contaminants	
Heavy metals (according to Regulation EC 1881/2006 and Codex Stan 210)	Standards
Lead (Pb)	Max. 0,1 mg/kg
Iron (Fe)	Max. 1,5 mg/kg
Copper (Cu)	Max. 0,1 mg/kg
Arsenic (As)	Max. 0,1 mg/kg



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<b>Pesticides</b> (according to Regulation EC 396/2005 and its amendments)	
Pesticides residues	EC 396/2005
<b>Polyaromatic hydrocarbons</b> (according to Regulation EC 1881/2006 and its amendment EU 835/2011)	
PAH 4: Sum of benzo(a)pyrene, benz(a)anthracene, benzo(b)fluoranthene and chrysene	Max 10 ppb
Benzo(a)pyrene	Max 2 ppb
<b>Dioxin</b> (according to Regulation EC 1881/2006 and its amendments & EU 1259/2011)	
Sum of dioxins (WHO-PCDD/F-TEQ)	Max. 0,75 µg/g fat
Som of dioxins and dioxin-like PCB's (WHO-PCDD/F-PCB-TEQ)	Max. 1,25 µg/g fat
ICES-6 (Som van PCB28, PCB52, PCB101, PBC138, PCB153 en PCB180)	Max. 40 ng/g fat
<b>Glycidyl-esters</b> (according to Regulation EU 290/2018, amending EC 1881/2006)	
Glycidyl fatty acid esters expressed as glycidol	Max 1000 µg/kg
<b>3-MCPD</b> (according to Regulation EU 1322/2020, amending EC 1881/2006)	
Sum of 3-monochloropropanediol and 3-MCPD fatty acid esters, expressed as 3-MCPD	Max 1250 µg/kg

<b>Allergens</b>		
<b>Allergenic substances and products thereof:</b>	<b>Recipe contains</b>	<b>Cross-contamination</b>
Cereals containing gluten (wheat, rye, barley, oats, spelt, kamut or their hybridised strains)	-	-
Crustaceans	-	-
Eggs	-	-
Fish	-	-
Peanuts	-	-
Soybeans	-	-
Milk	-	-
Nuts (almonds, hazelnuts, walnuts, cashews, pecan nuts, Brazil nuts, pistachio nuts, macadamian nuts)	-	-
Celery	-	-
Mustard	-	-
Sesame	-	-
Sulphur dioxide and sulphites (E220 –E228) at concentrations of more than 10mg/kg or 10 mg/l, in terms of total SO <sub>2</sub>	-	-
Lupin	-	-
Molluscs	-	-



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