

# CORN GERM OIL

## PRODUCT DATA SHEET



**CORN GERM OIL**, 100% natural, is a refined vegetable oil obtained from the germ of *Zea mays* (corn) plant.

**CORN GERM OIL** is one of the plant oils that accumulate the highest levels of unsaturated fatty acids in the triacylglycerol fraction.

**CORN GERM OIL** contains approximately 50% of Linoleic acid (Omega 6) and is also particularly high in vitamin E and Zinc. Both of which are known for their antioxidant properties, and for stimulating new healthy cell growth.

The emollient properties provided by **CORN GERM OIL** make it useful to be used in all cosmetic formulations.

### TECHNICAL DATA

<b>Appearance:</b>	Clear pale yellow oily liquid
<b>Density at 20°C:</b>	0.910 - 0.930 g/ml
<b>Acid value:</b>	≤ 1.0 mg KOH/g
<b>Peroxide value:</b>	≤ 10.0 meqO <sub>2</sub> / Kg

Fatty Acid	Composition
Palmitic acid	9 - 17 %
Oleic acid	22 - 40 %
Linoleic acid	39 - 65 %

### APPLICATION



**CORN GERM OIL** may be applied directly to the skin and hair. It may also be easily incorporated as an active ingredient or an ideal carrier in skin and hair care products. Recommended dosage is between 3 to 10 %.

**CORN GERM OIL** can also be used directly as massage oil.

**INCI Name:** Zea Mays (corn) germ Oil

**REFINED CORN GERM OIL****CODE** 008141      **SPECIFICATION**      **Nº** 00814101

<b>PARAMETERS</b>	<b>SPECIFICATIONS</b>	<b>EDITION - 27/10/2011</b>
Peroxide value (meq/kg at time of pack, 20°C) (PE 2.5.5)	max. 10 meq O <sub>2</sub> /Kg	
Acid Value	max. 1.0 mg KOH / g	
CHROMATOGRAPHY	FATTY ACID FRACTION:	
Myristic	max. 0.1 %	
Palmitic	9.0 - 17.0 %	
Palmitoleic	max. 0.5 %	
Margaric	max. 0.1 %	
Margaroleic	max. 0.1 %	
Stearic	1.0 - 3.0 %	
Oleic	22.0 - 40.0 %	
Linoleic	39.0 - 65.0 %	
Linolenic	max. 1.5 %	
Arachidic	max. 1.0 %	
Gadoleic	max. 0.4 %	
Behenic	max. 0.2 %	
Lignoceric	max. 0.3 %	

**PACKING****REMARKS**

KEEP FULL AND WELL CLOSED IN A DRY PLACE AND AWAY FROM LIGHT