

## Refined Palm Kernel Oil Product Datasheet

Item number: 20-033

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Version date: August 26<sup>th</sup>, 2013

### General Information

Product description	Refined Palm Kernel Oil
Ingredient declarations	Palm Kernel Oil
Additives	-
The raw material originates from	Mainly Malaysia / Indonesia / Papua New Guinea Southeast Asia / West Africa / South America / Central America
GMO status	There is no need to label as GMO according to the regulations EC 1829/2003 & 1830/2003 and amendments
Allergen status	There is no need to label, with regards to food allergens according to Annex III a of directive 2000/13/EC and amendments
Irradiation status	Not irradiated. Not treated with ionizing radiation.
CAS number	8032-79-8
EINECS number	232-425-4
Process description	Crude Palm Kernel Oil is refined, bleached and deodorized
Advised storage conditions	Unloading in empty clean stainless steel tanks. Storage temperature 10-15 °C above melting temperature and preferably under nitrogen atmosphere.
Advised storage / shelf life	14 days, when taken into account the advised storage conditions

### Quality Values

Free Fatty Acid Content, as lauric acid	max. 0.08 %	ISO 660
Colour Red (5 ¼ " Lovibond)	max. 1.5	ISO 15305
Peroxide Value	max. 0.5 meqO <sub>2</sub> / kg	ISO 3960
Moisture Content	max. 0.05 %	ISO 662
Iodine Value	max. 21 gI <sub>2</sub> / 100 g	ISO 3961
Taste / Odour	neutral / bland	

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### Solid Fat Content

at 20 °C	36 – 45 %	Pulse NMR, IUPAC 2.150 a
at 30 °C	max. 3 %	Pulse NMR, IUPAC 2.150 a

### Fatty Acid Composition (typical)

Saturated Fatty Acids	~ 81 %	ISO 5508
Mono-unsaturated Fatty Acids	~ 16 %	ISO 5508
Poly-unsaturated Fatty Acids	~ 3 %	ISO 5508
Trans Fatty Acids	max. 1 %	ISO 5508

### Typical Nutritional Information

Energy	3700 KJ or 900 kCal
Proteins	0 g
Carbohydrates	0 g
Fiber or Dietary Fiber	0 g
Salt content	0 g
Sodium	0 g
Ash	0 g
Fat	100 g
Moisture	< 0.05 g

### Fatty Acid Composition (average)

C8:0	3 %
C10:0	3 %
C12:0	47 %
C14:0	17 %
C16:0	9 %
C18:0	2 %
C18:1	16 % (Total)
C18:2	3 % (Total)

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### Additional information

Relative Density (40 °C)	0.90 kg / m <sup>3</sup>
Refractive Index (40 °C)	1.45
Smoke point	> 190 °C
Flash point	> 300 °C
Fire point	350 °C
Soap remains	< 10 mg / kg
Free from Alcohol	yes
Source of Phenylalanine	no

### Contaminants and Maximum Residue Levels

Parameter	Typical	Legal Limits*
<b>Mycotoxin</b>		
Aflatoxin B1	max. 2 ug / kg	
Aflatoxin B1 + B2 + G1 + G2	max. 4 ug / kg	
<b>Metals</b>		
Iron (Fe)	max. 500 ug / kg	
Copper (Cu)	max. 50 ug / kg	
Arsenic (As)	max. 100 ug / kg	
Lead (Pb)		max. 100 ug / kg
Nickel (Ni)	max. 200 ug / kg	
Sum of dioxins (WHO-PCCD/F-TEQ)		max. 0.75 pg / g
Sum of dioxins and dioxins like PCB's (WHO-PCDD/F-TEQ) (food)		max. 1.25 pg / g
Sum of dioxins and dioxins like PCB's (WHO-PCDD/F-TEQ) (feed)		max. 1.5 pg / g

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Parameter	Typical	Legal Limits*
Non-dioxin-like PCB's (sum of congeners 28, 52, 101, 138, 153 and 180)		max. 40 ng/g
<b>Poly Cyclic Aromatic Hydrocarbons</b>		
Benzo(a)pyrene		max. 2 ug / kg
Sum of Benzo(a)pyrene, Benz(a)anthracene, Benzo(b)fluorathene and Chrysene		max. 10 ug / kg
<b>Bacteriological</b>		
Total plate count	max. 1000 / g	
Salmonella	absent / 25 g	
Yeast	max. 10 / g	
Moulds	max. 10 / g	
Enterobacteraceae	max. 10 / g	
E.Coli	max. 10 / g	

\* As defined in the EC regulation 1881 / 2006 plus its amendments. Compliance with the legal limits is verified through through product and site specific monitoring programs.

### Allergens according to the ALBA list (version 2.0 – 2011)

Gluten	absent
- Wheat	absent
- Rye	absent
- Barley	absent
- Oats	absent
- Spelt	absent
- Kamut	absent
Crustaceans	absent

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Eggs	absent
Fish	absent
Peanuts	absent
Soy	absent
Milk	absent
Nuts	absent
- Almonds	absent
- Hazelnuts	absent
- Walnuts	absent
- Cashews	absent
- Pecan nuts	absent
- Brasil nuts	absent
- Pistachio nuts	absent
- Macadamia / Queensland nuts	absent
Celery	absent
Mustard	absent
Sesame	absent
Sulphur dioxide and sulphites (E220-E228) at concentrations of more than 10 mg / kg or 10 mg / l, expressed as SO <sub>2</sub>	absent
Lupin	absent
Molluscs	absent
Lactose	absent
Cocoa	absent
Glutamate (E620-E625)	absent
Chicken meat	absent



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Coriander	absent
Corn / maize	absent
Legumes	absent
Beef	absent
Pork	absent
Carrots	absent

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