



Product Specification RBD Coconut Oil

Product Identification	
Product Name	RBD Coconut Oil
Country of Origin	Indonesia, Papua New Guinea and Philippines (packed in the UK)
Ingredients	100% Coconut Oil
Process Description	<p>Refined coconut oil is produced in the process of expelling oil from coconut kernels (copra) using mechanical and chemical extraction that utilizes solvents (hexane) as a means of obtaining the coconut oil from copra.</p> <p>The extracted oil is refined, bleached and deodorized (RBD) to remove impurities in a series of steps. The RBD coconut oil is then sieved, filtered and packed.</p>
Certifications	GFSI, Kosher, Halal
Allergens	Free of allergens as per the EU Regulations
GMO Statement	Free from any genetically modified organism (GMO) or product thereof as per the EU Regulations
Dietary Suitability	Suitable for Halal, Kosher, Vegan and Vegetarian diets

Organoleptic	
Colour & Appearance	Pale yellow to white/off white colour. Coconut oil is liquid in the hot ambient temperatures of the producing countries but may solidify, or partly solidify, in cooler climates, such as in the UK.
Taste	Bland taste, no rancid or off flavours
Aroma	Free from rancid odours and off taints
Texture	Soft fat with a smooth texture. Liquid at temperatures above melting point.

Physical & Chemical Standards		
Test	Specification Limits	Method
FFA (as lauric acid)	0.15% max.	ISO 660:1999
Peroxide Value (meq O ₂ /kg)	2.0 max.	ENS-ISO 3960:2007
Melting Point (°C)	24.0 – 27.0	NEN 6313:1977
Moisture	0.1% max.	ISO 8534:2007
Colour Lovibond R 5¼"	3.0 max.	ISO 15305:1998
Colour Lovibond Y 5¼"	30.0 max.	ISO 15305:1998
Solid Fat Content at 10°C	78.0 – 84.0%	pNMR
Solid Fat Content at 20°C	34.0 – 42.0%	pNMR
Solid Fat Content at 30°C	0.0 – 1.0%	pNMR
Relative Density at 20°C (g/cm ³)	0.87 – 0.90	ISO 1183:2004
Refractive Index n _{D40}	1.448 – 1.450	ISO 6320:2000

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Prepared By:		Approved By:	<i>Esther Kiwana</i>



Physical & Chemical Standards – Contd.		
Heavy Metals & Pesticide Residues	<p>Product does not exceed the maximum residual levels for heavy metals (Reg. EC N^o 1881/2006) and are produced in compliance with UK & European Legislation, and subsequent amendments, regarding maximum limits for Pesticides (Reg. EC N^o 396/2005 and amended legislation).</p> <p>There are no written assurances obtained from refinery suppliers of coconut oil that they guarantee that the product supplied will meet the pesticide requirements of EU Legislation for infant formula and manufactured baby foods. Therefore, it is not recommended that the refined coconut oil is used in the preparation of baby foods.</p>	
Microbiological Standards		
<p>Product complies with the microbiological criteria for foodstuffs according to Commission Regulation (EC) 2073/2005. Refined Oils and Fats undergo a sterilization step which renders them unsusceptible to the growth of microorganisms due to their low water activity levels. Additionally, the product is deodorized according to FEDIOL Code of Practice (min. 180°C for min. 2 hrs), which effectively eliminates microbiological activity.</p> <p>The Institute of Food Science and Technologies' "Microbial Criteria for Foods" (ISBN 0 905367 16 2) notes that pathogens should be absent in refined oils and 100% fat products packed under good hygienic conditions and that monitoring is not required.</p>		
Nutritionals		
Nutritional Information (Per 100g)	Energy (kJ)	3696
	(kcal)	899
	Protein (g)	0
	Fat (g)	99.9
	Of which Saturated (g)	86.5
	Of which Mono-Unsaturated (g)	6.0
	Of which Poly-Unsaturated (g)	1.5
	Carbohydrates (g)	0
	Of which Sugars (g)	0
	Fibre (g)	0
Salt (g)	< 0.05	
Packaging Information		
Packaging Compliance	All Food Contact packaging complies with the current UK & EU Regulations for Food contact packaging, and acceptable migration levels	
Packaging Format	1000L IBC container (Top Fill/Bottom Discharge LLDPE Liquid Liner in PP Steel Reinforced CHEP Pallecon iCONIC to use with Adaptor S60 and Pallecon Heater Baseboard)	12.5kg Bag-in-Box (Blue Polyethylene Liner in the outer cardboard box sealed with LDPE tape)

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Prepared By:	<i>Marcelina Michalewicz</i>	Approved By:	<i>Esther Kiwana</i>



Packaging Information – Contd.	
Packaging Dimensions & Weights	<ul style="list-style-type: none"> - Internal Dimensions: 1130mm x 930mm x 985mm - External Dimensions: 1200mm x 1000mm x 1180mm - IBC Tare Weight: 100 ± 1.5kg - Liquid Liner Weight: 1.98kg - Net Weight: 1000L <ul style="list-style-type: none"> - Inner Bag Dimensions: 585mm x 630mm - Outer Carton Dimensions: 320mm x 210mm x 220mm - Inner Bag Weight: 26.8g - Outer Carton Weight: 176g - Net Weight: 12.5kg
Pallet Configuration	1 x 1000L IBC container/pallet
Labelling	16 cartons/layer – 5 layers/pallet
Example & Explanation of Traceability Coding	<p>Product name, manufacturer, lot/batch number, net weight, best before date</p> <p>Production Code expressed in accordance with a Julian Code Calendar as: 21075K</p> <p>where: First 2 digits represent the year of production, 075 represents the date of production and: 001 = 1st January, 365 = 31st December (Leap year only 366 = 31st December), K is used as a site identification.</p> <p>The Best Before Date comprise of the month and year and is determined from the actual production date. BBE Date expressed as: Month Year</p>
Shelf life	24 months from manufacturing date when stored unopened in original packaging under recommended storage conditions
Storage Conditions	Store at ambient temperatures, off the floor in a clean, cool and dry area. Keep away from strongly odorous materials and direct sunlight. Avoid storage in high moisture areas.
Warranty	It Is Warranted That: The Foodstuff, Packaging And Label (Hereinafter Called “The Product”) Complies in all respects with the Food Safety Act 1990 (as amended), The General Food Law Regulation (EC) 178/2002 and any other relevant current UK and EU regulations.

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