BEAUTY & PERSONAL CARE | EMEA

## Vegetable Oils – Sensory and Fatty Acid Profiles

EarthOil by Univar Solutions is a rare supplier in the world of natural ingredients for the Beauty & Personal Care industry. We can help you create products with a distinctive advantage using established and unique oils from around the world

Partnering with EBInnov<sup>®</sup>, the Industrial Biology School based in France, EarthOil led a sensory study comparing the oils and butters of its portfolio to help you chose the right ingredient.

Discover more characteristics of our 100% Pure and Natural product offering!

EarthOil By Univar Solutions

SENSORY PROFILE															
Product name		Botanical name		Aspect	Pick up		Applio	ation	Afterfeel 1 min				Afterfeel 2 min		
	INCI name		Sensoriality	Color	Fluidity	Melting	Cushion effect	Spreadability	Softness	Smoothness	Stickiness	Greasiness	Film-forming	Penetratio	
Shea Butter Refined (FFL, Organic)	Butyrospermum parkii Butter	Butyrospermum parkii	More cushion effect More colored than Coconut	White to ivory	-	••	••	••	•	-	•	•••	••	••	
Coconut Oil Virgin Crude (FFL, Organic)	Cocos nucifera Oil	Cocos nucifera L.	Melts and spreads very easily on the skin	Colorless to pale yellow	-		•	•••	•	-	•	•••	••	••	
Moringa Oil Crude	Moringa oleifera Seed Oil	Moringa oleifera	Fluid and non sticky	Yellow to orange	•••	-	••	••	-	•	•	••	••	••	
Sweet Almond Oil Crude (Organic)	Prunus amygdalus dulcis Oil	Prunus amygdalus dulcis	Less greasy	Pale yellow to yellow/ orange		-	••	•••	-	•	•	••	••	••	
Apricot Kernel Oil Crude (Organic)	Prunus armeniaca Kernel Oil	Prunus armeniaca L.	Fluid and non sticky	Pale yellow to yellow/ orange		-	••	•••	-	•	•	••	••	••	
Avocado Oil Crude (Organic)	Persea gratissima Oil	Persea gratissima	Greasy, smooth. Nourishing	Green to dark olive	•••	-	••	•••	-	•	•	••	••	••	
Avocado Oil Refined (Organic)	Persea gratissima Oil	Persea gratissima	Least sticky Less greasy and colored than crude grade	Colourless to pale yellow/ green		-	••	•••	-	•	•	••	••	••	
Baobab Oil Crude (Organic)	Adansonia digitata Seed Oil	Adansonia digitata L.	Fluid and non sticky	Pale yellow to yellow/ orange	•••	-	••	•••	-	•	•	••	••	••	
Grapeseed Oil Crude (Organic)	Vitis vinifera Seed Oil	Vitis vinifera	Less greasy	Green to dark green	•••	-	••	•••	-	•	•	••	••	••	
Hempseed Oil Crude (Organic)	Cannabis sativa Seed Oil	Cannabis sativa L.	Fluid and spreadable	Yellow to green	•••	-	••	•••	-	•	•	••	••	••	
Macadamia Oil Crude (Organic)	<i>Macadamia integrifolia</i> Seed Oil	Macadamia integrifolia	More fluid, better cushion effect than Macadamia Oil Crude	Pale yellow to yellow/ orange		-	••		-	•	•	••	••	••	
Macadamia Oil Crude	Macadamia integrifolia Seed Oil	Macadamia integrifolia	Less sticky feeling than organic grade	Pale yellow to yellow/ orange	••	-	••	•••	-	•	•	••	••	•	
Pomegranate Seed Oil Crude (Organic)	Punica granatum Seed Oil	Punica granatum	Very different: stickier, less spreading, less fluid. Better cushion effect More residue on skin	Yellow		-	•••	••	-	•	••		••	•	
Sesame Seed Oil Crude (Organic)	Sesamum indicum Seed Oil	Sesamum indicum	Less residue on skin	Pale yellow to yellow/ orange	•••	-	••	•••	-	•	•	••	••	••	

SPECIFICATIONS																	
Product name	Fatty acids	Short chain Medium chain				Long chain							Very long chain			Free fatty	
	(all values expressed in %) Comments		C10 Capric Acid	C12 Lauric Acid	C14 Myristic Acid	C16 Palmitic Acid	C16:1 Palmitoleic Acid (omega 7)	C18 Stearic Acid	C18:1 Oleic Acid (omega 9)	C18:2 Linoleic Acid (omega 6)	C18:3 (n-3) a Linolenic Acid (omega 3)	C18:3 Punicic Acid (omega 5)	C20 Arachidic Acid	C22 Behenic Acid	value (meq 02/kg)	Acid value (mg KOH/g)	acid (%)
Shea Butter Refined (FFL, Organic)	Solid at room temperature due to high level of saturated fatty acids, melts at body temperature					2-7		25-47	30-60	2-10			Max 2	•	Max 10	Max 6	Max 3
Coconut Oil Virgin Crude (FFL, Organic)	Stable thanks to high content of short and medium-sized saturated fatty acids, while very low unsaturated level	3-10	5-8	40-56	15-25	5-10		1-6	3-10	Max 3					Max 5	Max 4	Max 2
Moringa Oil Crude	Very good emollient properties, specific C22 Behenic Acid and very high content of C18:1 Oleic Acid					2-10	1-5	2-8	65-85	Max 2			2-5	3-8	Max 15	Max 8	Max 4
Sweet Almond Oil Crude (Organic)	Very high unsaturated fatty acids content, especially mono-unsaturated that stabilizes the oil					4-9	Max 2	Max 4	62-86	15-32					Max 15	Max 4	Max 2
Apricot Kernel Oil Crude (Organic)	Low saturated and high unsaturated fatty acids content that soften and promote skin elasticity					3-10	Max 2	Max 4	50-76	19-33					Max 15	Max 8	Max 4
Avocado Oil Crude (Organic)	Relatively rare C16:1 Palmitoleic Acid, very high monounsaturated fatty acid content					10-30	2-12	Max 3	40-75	5-30					Max 15	Max 10	Max 5
Avocado Oil Refined (Organic)	Relatively rare C16:1 Palmitoleic Acid, very high monounsaturated fatty acid content					10-30	2-12	Max 3	40-75	5-30					Max 10	Max 4	Max 2
Baobab Oil Crude (Organic)	High composition in unsaturated fatty acids and saturated C16 Palmitic Acid that stabilizes the oil					15-30		1-8	24-44	19-37	Max 3				Max 15	Max 4	Max 2
Grapeseed Oil Crude (Organic)	Very high content of C18:2 Linoleic Acid, softens and promotes skin elasticity					5,5-10		3-6,5	12-28	65-78					Max 20	Max 5	Max 2,5
Hempseed Oil Crude (Organic)	High level of optimally balanced polyunsaturated fatty acids, C18:2 Linolenic Acid and C18:3 a Linolenic Acid					5-12		1-4,5	Max 17	45-65	14-30		Max 2		Max 15	Max 8	Max 4
Macadamia Oil Crude (Organic)	Very high level of mono while very low level of polyunsaturated fatty acids, oxidatively stable					6-12	15-30	2-6	50-70	1-8			Max 4		Max 15	Max 6	Max 3
Macadamia Oil Crude	Very high level of mono while very low level of polyunsaturated fatty acids, oxidatively stable					6-12	15-30	2-6	50-70	1-8			Max 4		Max 15	Max 6	Max 3
Pomegranate Seed Oil Crude (Organic)	Specific composition, high content of rare fatty acid C18:3 Punicic Acid, close to Linolenic Acid					2-6		Max 3,5	3-11	2-10		60-86			Max 15	Max 10	Max 5
Sesame Seed Oil Crude (Organic)	Excellence balance between mono- and poly-unsaturated fatty acids, low in saturated fatty acids					7-12		3,5-6	35-50	35-50	Max 2				Max 15	Max 10	Max 5



## **Contact:**

For more information contact us at earthoilsales@UnivarSolutions.com or visit UnivarSolutions.com

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