

DOMUS CHEMICALS RSPO certified SPECIALTY ESTERS



Domus Chemicals has a history of more than 60 successful years. Continuous improvement by the labs and the manufacturing site in Pedrengo enables sustainable innovation that reflects the needs of the vibrant cosmetic market.

In context of the discussion about sustainable Palm Oil as a resource to produce emollients, Domus Chemicals is going to be RSPO certified until the end of 2016. The Mass Balance Certificate will be the base for several ingredients where palm oil is the source of the feedstock. All Specialty Esters that are made of synthetic material will not be subject to change.

Again Domus Chemicals demonstrates a very flexible, responsive and dynamically evolving structure, capable to respond very quickly to the demands of the ongoing changing market needs.

The quality of DOMUSCARE® products remains exactly the same European reference point in this field, regardless from which source the feedstock has been taken, either certified Palm Oil, other natural oil sources or synthetic material. However, it will be possible to receive a statement/certificate about the origin of the feedstock of all DOMUSCARE® Specialty Esters.

The Problem with Palm/Palm Kernel Oil

Palm oil plantations grow close to the rain forests in direct competition to an invaluable biodiversity that we need to protect. Proliferation of uncontrolled palm oil plantations can destroy the biosphere step by step.

Palm Oil and/or Palm Kernel Oil

Main compound of Palm Oil is a triglyceride that contains regarding its fatty esters approximately 44% Palmitic Acid, 39% Oleic Acid, 11% Linoleic Acid, 4% Stearic Acid and 1% Myristic Acid.

Palm Kernel Oils Fatty Acid composition is 48% Lauric Acid, 16% Myristic Acid, 15% Oleic Acid, 8% Palmitic Acid, 3% Stearic Acid, 3% Capric Acid, 3% Caprylic Acid and 2% Linoleic Acid.

All these compounds can be used as feedstocks for further chemical transformations to create emollients, emulsifiers, detergents etc.

RSPO

The Roundtable on Sustainable Palm Oil is an organization that cares to establish best practices to save the Palm Oil resources and to protect the landscape.

Since a lot of companies want to use sustainable palm oil only, Domus Chemicals is going to achieve an RSPO Mass Balance Certificate. This enables a clear statement, if Palm Oil is being used for the production of specific emollients and how much of Palm Oil contributes to the composition of the emollient.

All relevant DOMUSCARE® Specialty Esters will be made available with RSPO certificate in the near future.

Important to know is, that Domus Chemicals is working on Palm Oil Free versions as well. DOMUSCARE® OS POF (Ethylhexyl Stearate) is a unique Palm Oil Free version of DOMUSCARE® OS, in which Stearic Acid has been taken from Olive Oil. This can be an option for other stearates as well.

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INCI Chemical Description	CAS Registry Number	Spreadability	Function								Trade Name	RSPO Relevance	
			Emollient	Skin Conditioning	Emulsifying	Surfactant	Hair Conditioning	Antistatic	UV-Absorber	Solvent		NO RELEVANCE: Palm Oil Free feedstock	YES: RSPO - Mass Balance
C12-C15 ALKYL LACTATE	93925-36-1	++	•	•	-	-	-	-	-	-	DomusCare AL	X	
C12-C15 ALKYL BENZOATE	68411-27-8	0	•	•	-	-	-	-	-	-	DomusCare AB	X	
DIBUTYL SEBACATE	109-43-3	++	•	•	-	-	•	-	-	•	DomusCare DBS	X	
DIETHYLHEXYL SEBACATE	122-62-3	++	•	-	-	-	-	-	-	-	DomusCare DOS	X	
CETEARYL ETHYLHEXANOATE	90411-68-0	+	•	•	-	-	•	-	-	-	DomusCare CTK		X
CETYL ISONONANOATE	84878-33-1	+	•	•	-	-	•	-	-	-	DomusCare INA		X
ISONONYL ISONONANOATE	59219-71-5	++	•	•	-	-	-	•	-	-	DomusCare ISIS	X	
DECYL OLEATE	3687-46-8	+	•	•	-	-	-	-	-	-	DomusCare DO		X
ISODECYL OLEATE	59231-34-4	++	•	•	-	-	-	-	-	-	DomusCare IDO		X
ISOCETYL STEARATE	25339-09-7	0	•	•	-	-	-	-	-	-	DomusCare SI16		X
ISOSTEARYL ISOSTEARATE	41669-30-1		•	•	-	-	-	-	-	-	DomusCare SI18		X
DIISOSTEARYL MALATE	67763-18-2 81230-05-9	+	•	•	-	•	-	-	-	-	DomusCare MDIS	X	
ISOSTEARYL NEOPENTANOATE	58958-60-4	+	•	•	-	-	-	-	-	-	DomusCare 185	X	
ETHYLHEXYL COCOATE	92044-87-6	++	•	-	-	-	-	-	-	-	DomusCare EEC	X	
ETHYLHEXYL PALMITATE	29806-73-3	++	•	-	-	-	-	-	-	-	DomusCare OP		X
ETHYLHEXYL STEARATE	22047-49-0	++	•	-	-	-	-	-	-	-	DomusCare OS		X
ETHYLHEXYL LAURATE	20292-08-4	++	•	-	-	-	-	-	-	-	DomusCare EEL		X
ETHYLHEXYL OLEATE	26399-02-0	++	•	-	-	-	-	-	-	-	DomusCare EEO		X
ETHYLHEXYL HYDROXYSTEARATE	29710-25-6 29383-26-4	++	•	-	-	-	-	-	-	-	DomusCare OHS	X	
ETHYLHEXYL SALICYLATE	118-60-5	++	•	•	-	-	-	-	•	-	DomusCare EXS	X	
ISOBUTYL STEARATE	646-13-9	0	•	•	-	-	-	-	-	-	DomusCare IBS		X
TRIMETHYLOLPROPANE TRIISOSTEARATE	68541-50-4	0	•	•	-	-	-	-	-	-	DomusCare TTIS		X
PENTAERYTHRITYL TETRAISOSTEARATE	62125-22-8	+	•	-	•	•	-	-	-	-	DomusCare PTIS		X
COCO- CAPRYLATE/CAPRATE	95912-86-0	++	•	•	-	-	-	-	-	-	DomusCare LC		X
POLYGLYCERYL-3 CAPRYLATE	108777-93-1	0	-	-	•	•	-	-	-	-	DomusCare TGM08		X
POLYGLYCERYL-2 TRIISOSTEARATE	120486-24-0		-	-	•	-	-	-	-	-	DomusCare PG-2 T3IS		X
PEG-8 DISTEARATE	9005-08-7	0	-	-	•	-	-	-	-	-	DomusCare PG-8 DI		X
GLYCERYL OLEATE	25496-72-4 11-03-5	+	•	-	•	-	-	-	-	-	DomusCare GMO		X
PEG-7 GLYCERYL COCOATE	-	+	-	-	•	-	-	-	-	-	DomusCare GC-7		X
CETYL PALMITATE	540-10-3		•	•	-	•	-	-	-	-	DomusCare CP		X
DIBUTYL ADIPATE	105-99-7	++	•	•	-	-	-	-	-	•	DomusCare DBA	X	
DIISOBUTYL ADIPATE	141-04-8	++	•	•	-	-	-	-	-	•	DomusCare DIBA	X	
DIISODECYL ADIPATE	27178-16-1	+	•	•	-	-	-	-	-	•	DomusCare DIDA	X	

0 = low + = medium ++ = high