

Selection  
Guide

# Surfactants for Sustainable Solutions

## Selection Guide for Sustainable Solutions

Sustainability plays an increasingly important role in consumers' purchasing decisions, driving formulators and manufacturers to continuously evolve their products to meet and exceed consumer needs.

As a long-standing leader in natural product derivatives, Vantage is committed to helping you meet your sustainability goals. We are investing in a long-term, comprehensive journey to integrate sustainability across our portfolio and in all our decision-making. We emphasize best practice standards, accountability and reporting and strive to align our portfolio with certifications that support our consumer-focused markets and reinforce our commitments to sustainability, supply chain transparency and product quality excellence.

Renewable ingredients, low dioxane content, biodegradability and ecolabel eligibility are just some of the criteria we use to evaluate our portfolio.

## Global Leader in Surfactant Chemistry

Vantage is a differentiated, integrated solutions provider of high-quality surfactants, performance additives, specialty blends and biobased intermediates for a wide variety of consumer and industrial markets.

From personal care, and household, industrial and institutional cleaning (HI&I) to textiles, emulsion polymerization, coatings and more, we offer specialty surfactants that optimally fulfill your industry and application needs.

Our surfactants portfolio comprises anionic surfactants like taurates and alkane sulfonates as well as nonionic surfactants such as ethoxylated fatty alcohols and ethylene oxide/propylene oxide (EO/PO) products.

To meet your specific individual requirements, we also support you in developing customized surfactants based on different starting materials, EO/PO ratios or dilutions.



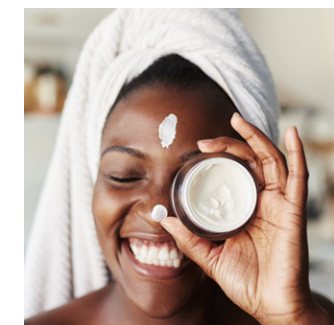


## Our Markets

We invite you to explore our solutions portfolio and discover the quality of our offerings and our commitment to a world with more efficient and sustainable chemicals.



### HOME CARE



### PERSONAL CARE



### COATINGS



### TEXTILES



# Anionic Surfactants

Global Product Name	Chemical Type	CAS #	Active content %	Physical Form	HLB Value <sup>1</sup>			Global Product Name	Bio-based carbon % <sup>2</sup>	RSPO <sup>3</sup>	Low VOC <sup>4</sup>	APEO-free <sup>5</sup>	1,4-dioxane	Biodegradability <sup>6</sup>	Labelling <sup>7</sup>	EU Ecolabel <sup>8</sup>
Taurates								Taurates								
LUMISOLVE* C-30	Sodium Methyl Cocoyl Taurate	1471313-51-5 61791-42-2	29 to 31.5	paste	22			LUMISOLVE* C-30	81.5	✓	✓	✓	<1 ppm	✓	H319	✓
LUMISOLVE O-40	Sodium Methyl Oleyl Taurate	1471313-87-7 137-20-2	38 to 42	paste	19.2			LUMISOLVE O-40	85.8	✓	✓	✓	<1 ppm	✓	H319	✓
LUMISOLVE O-75	Sodium Methyl Oleyl taurate	1471313-87-7 137-20-2	70 to 78	powder	19.2			LUMISOLVE O-75	85.8	✓	✓	✓	<1 ppm	✓	H319	✓



- 1 **HLB:** Hydrophilic-Lipophilic Balance
- 2 **Biobased Carbon:** share of organic carbon in relation to the total carbon content of the product, according to ISO/TR 2323750:2021 (FAQ to ISO 16128)
- 3 **RSPO:** (Roundtable on Sustainable Palm Oil): products marked with ✓ are available on request in RSPO mass balance quality (License Number: 2-0372-12-100-00). Products market with „NA“ (not applicable) are non palm-based
- 4 **Low VOC:** (Volatile Organic Compounds): below 1%, residual monomers expected
- 5 **APEO-free:** free of alkylphenol ethoxylates
- 6 **Readily biodegradable:** Products marked with ✓ are readily biodegradable and have been tested according to OECD 301 A, B, C, D, E or F. Products market with ✓\* have not been tested but are expected to be readily biodegradable according to literature data.
- 7 **Labeling:** according to CLP directive
  - H302: Harmful if swallowed
  - H315: Causes skin irritation
  - H319: Causes serious eye irritation
  - H361d: Suspected of damaging fertility or the unborn child
  - H400: Very toxic to aquatic life
  - H412: Harmful to aquatic life with long lasting effects
- 8 **Ecolabel suitability:** Products marked with ✓ are suitable for selected detergents & cleaners with EU Ecolabel. Products marked with ✓\* are expected to be suitable, but pending on anaerobic biodegradation testing



# Anionic Surfactants

Global Product Name	Chemical Type	CAS #	Active content %	Physical Form	HLB Value <sup>1</sup>	Bio-based carbon % <sup>2</sup>		Global Product Name	RSPO <sup>3</sup>	Low VOC <sup>4</sup>	APEO-free <sup>5</sup>	1,4-dioxane	Biodegradability <sup>6</sup>	Labelling <sup>7</sup>	EU Ecolabel <sup>8</sup>
Alkane Sulfonates								Alkane Sulfonates							
EMULGATOR E30* SOLID	Sodium C9-22 Alkylsec sulfonate	68188-18-1	≥ 94	pellet	-	0		EMULGATOR E30* SOLID	NA	✓	✓	NA	✓	H302/H315/H319/H361d/H412	



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# Nonionic Surfactants

Global Product Name	Chemical Type	CAS #	Active content %	Appearance	HLB Value <sup>1</sup>			Global Product Name	Bio-based carbon % <sup>2</sup>	RSPO <sup>3</sup>	Low VOC <sup>4</sup>	APEO-free <sup>5</sup>	1,4-dioxane <sup>6</sup>	Biodegradability <sup>7</sup>	Labelling <sup>8</sup>	EU Ecolabel <sup>9</sup>
Ethoxylated propoxylated alcohols							Ethoxylated propoxylated alcohols									
LEUNAPON*-F 1214/3/P6	Alcohols, C12-14 + EO/PO	68439-51-0	≥ 99.5	liquid	3.9			LEUNAPON*-F 1214/3/P6	34.3	✓	✓	✓	< 5 ppm	✓*	H319/H400/H412	✓*
LEUNAPON-F 1214/4/P5	Alcohols, C12-14 + EO/PO	68439-51-0	≥ 99.8	liquid	5.3			LEUNAPON-F 1214/4/P5	35.5	✓	✓	✓	< 5 ppm	✓	H319/H400/H412	✓*
LEUNAPON-F 1214/5/P4	Alcohols, C12-14 + EO/PO	68439-51-0	≥ 99.8	liquid	6.8			LEUNAPON-F 1214/5/P4	34.5	✓	✓	✓	< 5 ppm	✓	H319/H400/H412	✓*
LEUNAPON-F 1214/5/P5	Alcohols, C12-14 + EO/PO	68439-51-0	≥ 99.8	liquid	6.3			LEUNAPON-F 1214/5/P5	37.5	✓	✓	✓	< 5 ppm	✓*	H319/H400/H412	✓*
LEUNAPON-F 1214/6/P4	Alcohols, C12-14 + EO/PO	68439-51-0	≥ 99.7	liquid	7.7			LEUNAPON-F 1214/6/P4	36.5	✓	✓	✓	< 5 ppm	✓*	H319/H400/H412	✓*
LEUNAPON-F 10/4/P1/E	Alcohols, C10 + EO/PO	154518-36-2	≥ 99.5	liquid	9			LEUNAPON-F 10/4/P1/E	0	NA	✓	✓	< 5 ppm	✓*	H315/H319	
LEUNAPON-F 10/5/P2.5/E	Alcohols, C10 + EO/PO	154518-36-2	≥ 99.5	liquid	8.4			LEUNAPON-F 10/5/P2.5/E	0	NA	✓	✓	< 5 ppm	✓*	H315/H319	
LEUNAPON-F 11/6/P4/E	Alcohols, C11 rich, branched + EO/PO	103818-93-5	≥ 99.5	liquid	7.9			LEUNAPON-F 11/6/P4/E	0	NA	✓	✓	< 5 ppm	✓	H302/319	✓*
LEUNAPON-XF 01	Alcohols + EO/PO	166736-08-9	≥ 99.8	liquid	13.6			LEUNAPON-XF 01	0	NA	✓	✓	< 5 ppm	✓*	H302/318	
LEUNAPON-XF 02	Alcohols + EO/PO	166736-08-9	≥ 99.8	liquid	14.4			LEUNAPON-XF 02	0	NA	✓	✓	< 5 ppm	✓*	H302/318	
LEUNAPON-XF 05/85 PC	Alcohols + EO/PO	166736-08-9	84 to 86	liquid	12.4			LEUNAPON-XF 05/85 PC	0	NA	✓	✓	< 5 ppm	✓*	H302/318	
LEUNAPON-XF 06	Alcohols + EO/PO	166736-08-9	≥ 99.8	liquid	14			LEUNAPON-XF 06	0	NA	✓	✓	< 5 ppm	✓*	H302/318	

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Ethoxylated fatty alcohols								Ethoxylated fatty alcohols								
LEUNAPON*-F 1618/6	Alcohols, C16-C18 + EO	68439-49-6	≥ 99.8	solid	10.1			LEUNAPON*-F 1618/6	59.1	✓	✓	✓	< 5 ppm	✓	H400/H412	✓
LEUNAPON-F 1618/20 SW	Alcohols, C16-C18 + EO	68439-49-6	≥ 99.5	pellets	15.4			LEUNAPON-F 1618/20 SW	30.2	✓	✓	✓	< 5 ppm	✓*	H319	✓
LEUNAPON-F 1618/25 SW	Alcohols, C16-C18 + EO	68439-49-6	≥ 99.5	pellets	16.2			LEUNAPON-F 1618/25 SW	25.7	✓	✓	✓	< 5 ppm	✓*	label-free	✓
LEUNAPON-F 1618/55 SW	Alcohols, C16-C18 + EO	68439-49-6	≥ 99.5	pellets	18.1			LEUNAPON-F 1618/55 SW	13.6	✓	✓	✓	< 5 ppm	✓*	label-free	✓
LEUNAPON-F 1618/80 SW	Alcohols, C16-C18 + EO	68439-49-6	≥ 99.5	pellets	18.6			LEUNAPON-F 1618/80 SW	9.8	✓	✓	✓	< 5 ppm	✓	label-free	✓
LEUNAPON-F 10/5/PH	2-Propylheptanol + EO	160875-66-1	≥ 99.5	liquid	11.6			LEUNAPON-F 10/5/PH	0	NA	✓	✓	< 5 ppm	✓*	H318	✓



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- 6 **1,4-dioxane:** lower 1,4-dioxane levels available on request
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