



Clariant at a Glance – a Globally Leading Company in Specialty Chemicals

3860

Sales 2020 (CHF m) from continuing operations

578

EBITDA 2020 (CHF m) from continuing operations

3

Core Business Areas 13235

Total staff 2020 (FTE)²

799

Net result 2020 (CHF m) of total Group¹

15.0%

EBITDA margin 2020 from continuing operations

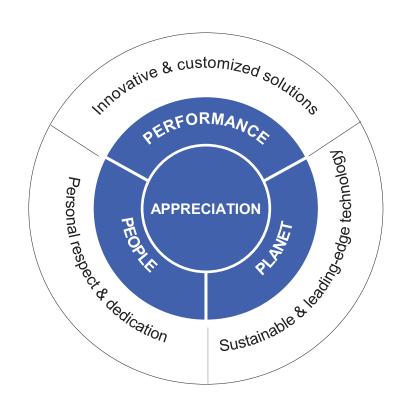
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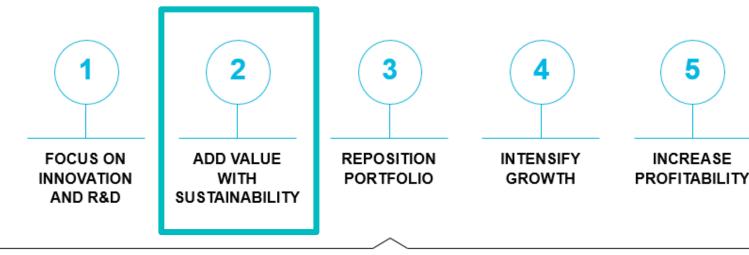
Production sites worldwide in 2020 ^{2, 3}

¹ Including discontinued operations ² Total Group incl. discontinued operations (excl. Business Unit Masterbatches) ³ Shared production sites with Business Unit Pigments are split as separate sites

Sustainability is a long-established key pillar of Clariant's strategy

EMBEDDED IN COMPANY VALUES AND STRATEGY





PEOPLE EXCELLENCE













Committed to fighting climate change



2030 SCIENCE-BASED CLIMATE TARGETS

Setting our absolute reductions in greenhouse gas emissions between 2019 and 2030.





- 40%

- 14%

Scope 1+2 greenhouse gas emissions Scope 3 greenhouse gas emissions from purchased goods and services

CLEAR ROADMAP FOR REDUCING EMISSIONS



ENERGY EFFICIENCY

- increasing the use of low carbon fuels and
- projects focused on increasing energy efficiency within operations via digitalization



ENERGY TRANSITION

 energy efficiency and mostly by switching to green electricity and other green energy sources



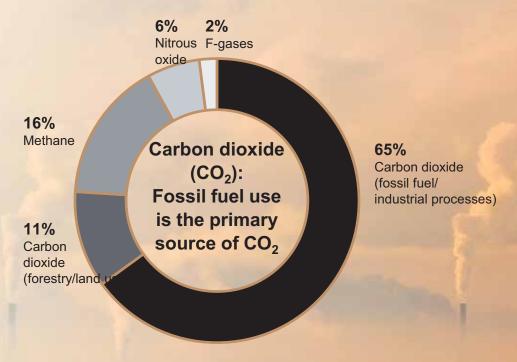
LOW CARBON RAW MATERIALS

 shifting towards low carbon alternatives, renewables-based raw materials, and secondary raw materials



Human behavior as a source of climate disruption

GLOBAL GREENHOUSE EMISSIONS BY GAS

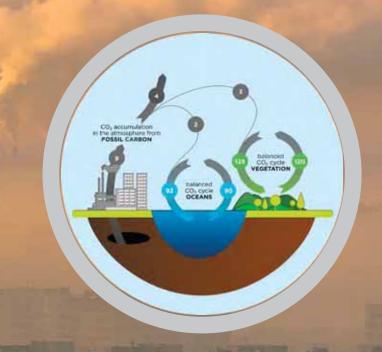


CARBON IS THE FUEL OF LIFE, BUT TOO MUCH CAN THREATEN THE PLANET

As CO₂ is used for photosynthesis by plants, metabolized into organic matter and consumed by Earth's organisms. Burning the unmetabolized carbon stored in fossil fuels spews more CO₂ into the air than natural processes can remove **The harm is caused by the imbalance in the carbon cycle!**

FOSSIL FUEL AS PRIMARY SOURCE OF CO2 RELEASE

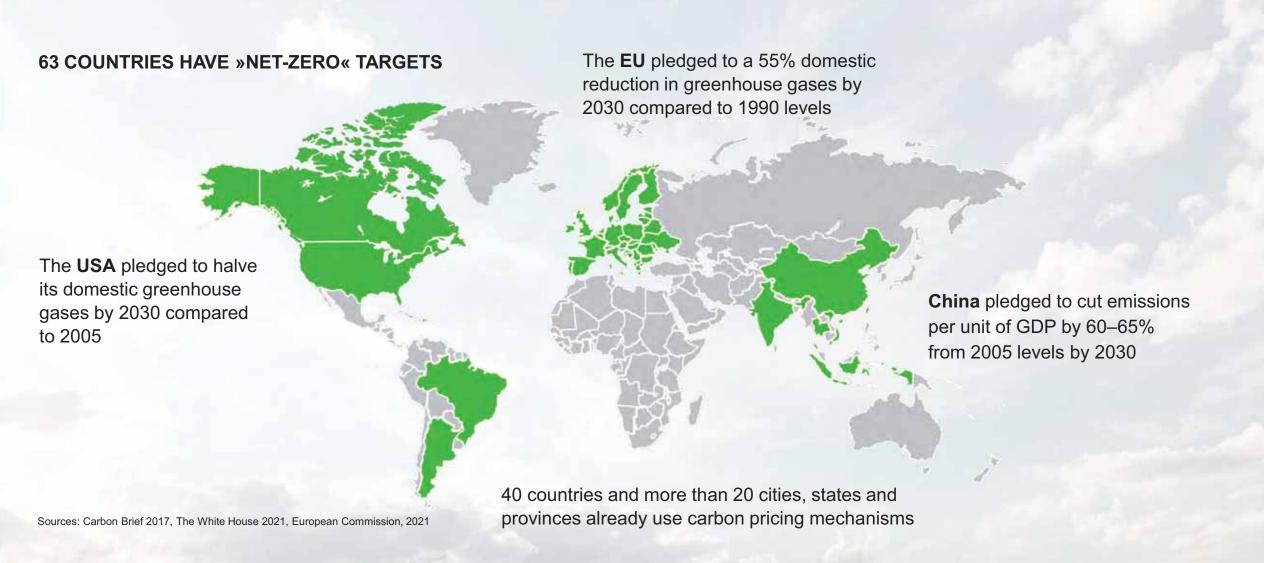
The main human drivers of climate change are increases in the atmospheric concentrations of greenhouse gases and of aerosols from burning fossil fuels, land use and other sources.* The way we live today generates much more CO₂ than can be absorbed by photosynthesis and other processes.



*IPCC report 2021, chapter 3.1, p. 14 Source: Global Greenhouse Gas Emissions Data, US EPA

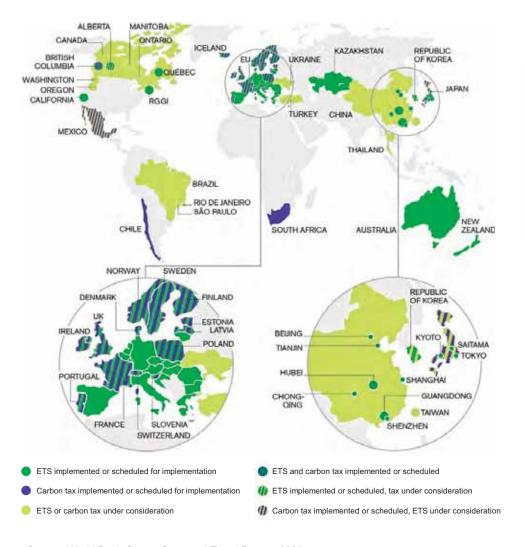


International pledges to drastically cut emissions





Carbon pricing is the main policy tool for incentivizing reductions





Making polluters pay for their carbon output has become the policy measure of choice for reducing emissions.

Carbon pricing is implemented through emissions trading schemes or taxes and aims to make countries and businesses fight carbon pollution by investing into more sustainable alternatives.

- 45 countries and over 20 cities, states and provinces already resort to carbon pricing systems
- EU pioneered carbon emissions trading as early as 2005, and the EU ETS is now the world's largest carbon market
- ETS schemes under implementation in China and Brazil
- Financial players and multinationals are advocating for a global pricing scheme



Europe's carbon border adjustment measure: Scope 3 carbon regulation mechanism through the backdoor?

EXAMPLE FOR NON-EU COMPANIES



Originating from countries with no equivalent climate standards/targets (including **NON-EU COMPANIES** carbon pricing)



Full impact starting from 2026

Impact on carbon footprint will be a critical factor in procurement decisions

- Starting from 2026
- EU importers and EU producers will be concerned
- Sectors at the beginning: automotive, construction, packaging and coatings, consumer appliances
- The lower fees paid by low-carbon manufacturers will give their products an edge on the EU market
- To be ready, companies must start cutting carbon fast!

Regardless of Scope emissions, product costs will increase significantly with higher carbon footprint.

»Substituting higher-carbon materials with lower-carbon ones will reduce the overall carbon footprint of a product, thus the cost's impact.«

Europe's carbon border adjustment measure: Scope 3 carbon regulation mechanism through the backdoor?



Full impact starting from 2020

mpact on carbon footprint will be a critical actor in procurement decisions

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In the longer term, when the material scope of the CBAM would be extended, as more information will be easily available on the carbon content of products and as carbon pricing policies of different countries may become more easily comparable, an extension of the carbon emission scope to cover the full carbon footprint of imported products may be considered.

thus the cost's impact.«



Already more than 30% of global coatings market officially announced GHG emission reduction targets

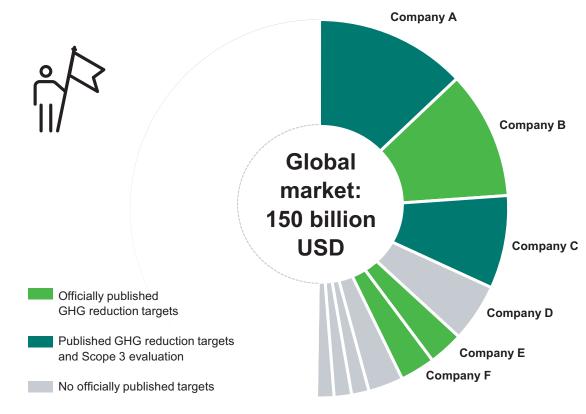
STATEMENTS FROM KEY PLAYERS IN THE **GLOBAL PAINTS & COATINGS INDUSTRY**

» ... 2025 target to reduce GHG emissions by 15% ...«

» ... reduce carbon emissions by 50% until 2030. Being carbon neutral by 2050 ...«

» ... GHG reduction of 30% until 2030 ...«







Raw materials create over 40% of a coatings company's total GHGs: Main lever for cutting carbon!

SCOPE 3 CATEGORIES

- Scope 3 consists of upstream and downstream emissions
- In total there are 23 sub-categories
- One of the sub-categories are purchased goods and services which includes raw materials

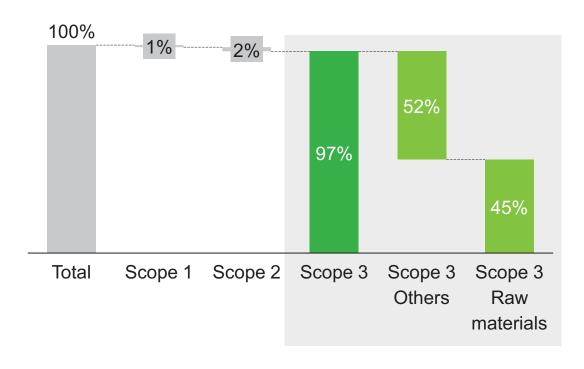


The conclusion is simple:
Shrinking feedstock footprints
is not just crucial for reaching
scope 3 targets – but for
reducing carbon overall!

PAINTS & COATINGS INDUSTRY CASE STUDY OF A »LEADING COATINGS PLAYER«



GHG EMISSIONS BY CATEGORY [%]



Paints & Coatings



What options do we have to decarbonize paint & coatings formulations?

	MASS BALANCED	+ Å	SEGREGATED		
Materials	 No physical or chemical differences between certified and non-certified products Addition of biowaste for the bio-based mass balance certification 	Crude ≥50% oil Bio-waste, crop residues	 No mixing of different types of renewable/recycled/fossil materials Certified product must be natural 		
Supply chain	 Mixing of certified and non-certified prod Administrative monitoring of the volume 		Fully renewable, segregated supply chain issuing from bio-based feedstocks		
Benefits	 Good option for gradually increasing shador circular feedstocks in order to many Contribution to circular economy Immediate applicability / drop-in solution 	ake credible claims	 100% renewable and bio-based material Independent supply chain from crude oil Strong claims directly referring to physical properties, such as »product made from bio-based feedstocks« 		
Carbon footprint	+		++		
Clariant offer	Yes, TERRA range		Yes, VITA range of products		

^{*}Source: https://www.iscc-system.org

Removing fossil carbon from the value chain: VITA range



Our 100% bio-based, fully segregated VITA range sets a new standard in green surfactants and helps mitigate climate change.



100% BASED ON GREEN CARBON made from plants via bioethanol



FULLY SEGREGATED MATERIAL FLOWS ensuring natural origin of ethoxylates



SAME **PERFORMANCE** AS FOSSIL-**BASED ANALOGUES** due to equivalent chemical structure



DESIGNED FOR NATURAL FORMULATIONS with a high Renewable Carbon Index (RCI)



LOWER CO2e **FOOTPRINT** vs. fossil alternatives



REMOVAL OF EMISSIONS equivalent to above 3.000 barrels of crude oil from the value chain*

* per kton of surfactant purchased; biogenic carbon uptake included

VITAlly reliable: produced via a fully segregated, bio-based value chain



FROM SOURCE TO FINAL INGREDIENT, THE FLOW OF OUR MATERIALS IS KEPT COMPLETELY SEPARATE FROM FOSSIL FLOWS

FOSSIL VALUE CHAIN:

from oil well to pipeline



Fossil fuel





production



& ethoxylation





100% **FOSSIL CARBON**

SEGREGATED VALUE CHAIN:

from sugar cane or corn to the VITA range of bio-based surfactants & PEGs















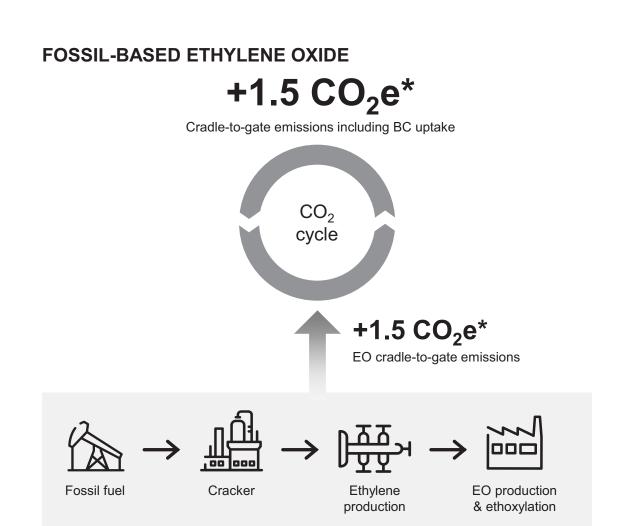
EO production & ethoxylation

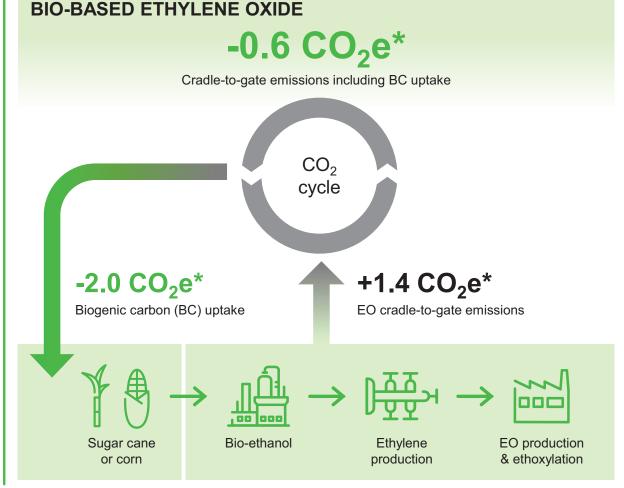


GUARANTEE THAT 100% OF PURCHASED PRODUCTS COME FROM RENEWABLE **SOURCES**

VITA surfactants and PEGs have a reduced carbon footprint





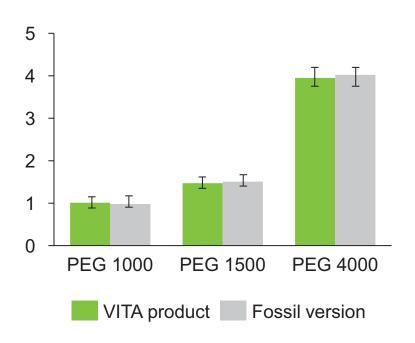


The new portfolio is carbon-saving thanks to the biogenic carbon uptake while growing sugar cane and corn



VITAlly the same: chemistry and performance remain equivalent

PEGs Mean Molecular Mass



Product	Chemistry	RCI*	Free EO content	Dioxane
Genapol LA 070	Lauryl alcohol ethoxylate	46%	<1ppm	<10ppm
Genapol LA 070 Vita	Lauryl alcohol ethoxylate	100%	<1ppm	<10ppm
Genapol O 050	Oleyl cetyl alcohol ethoxylate	64%	<1ppm	<10ppm
Genapol O 050 Vita	Oleylcetyl alcohol ethoxylate	100%	<1ppm	<10ppm



VITAlly complete: Broad portfolio of EODs and PEGs

EO-PO BLOCK COPOLYMER

Genapol PF 10 SG Terra Genapol PF 20 SG Terra Genapol PF 40 SG Terra

FATTY ACID ETHOXYLATE

Genagen C 100 SG Vita Genagen O 030 SG Vita Genagen O 060 SG Vita Genagen O 120 SG Vita Genagen S 065 SG Vita

FATTY ALCOHOL ETHOXYLATE

Genapol LA 010 SG Vita Genapol LA 020 SG Vita Genapol LA 030 SG Vita Genapol LA 040 SG Vita Genapol LA 050 SG Vita Genapol LA 060 SG Vita Genapol LA 070 SG Vita Genapol LA 085 SG Vita Genapol LA 090 SG Vita Genapol LA 100 SG Vita Genapol LA 120 SG Vita Genapol LA 160 SG Vita Genapol LA 230 SG Vita Genapol LA 300 SG Vita Genapol T 070 SG Vita Genapol T 200 SG Vita Genapol T 250 SG Vita

POLYGLYKOLS

Polyglykol 200 SG Vita Polyglykol 300 SG Vita Polyglykol 400 SG Vita Polyglykol 600 SG Vita Polyglykol 1000 SG Vita Polyglykol 1500 SG Vita Polyglykol 3350 SG Vita Polyglykol 4000 SG Vita Polyglykol 6000 SG Vita Polyglykol 10000 SG Vita Polyglykol A 350 SG Vita Polyglykol M 500 SG Terra Polyglykol M 750 SG Terra Polyglykol M 2000 SG Terra Polyglykol ML 2400 SG Terra

VEGETABLE OIL ETHOXYLATES

Emulsogen EL 300 SG Vita Emulsogen EL 360 SG Vita Emulsogen EL 400 SG Vita Emulsogen EL 550 SG Vita Emulsogen HCO 020 SG Vita Emulsogen HCO 040 SG Vita Emulsogen HCO 060 SG Vita

FATTY AMINE ETHOXYLATE

Genamin C 100 SG Genamin C 150 SG Genamin T 060 SG Genamin T 150 SG Genamin T 160 SG

SPECIALTY ETHOXYLATES

Genapol G 070 SG Vita Hostacerin L 20 SG Vita Hostacerin O 20 SG Vita

More to come





Drive change and help us eliminate fossil carbon from the value chain by formulating greener products for industrial use

Vincent Fritzemeier

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EcoTain® label – Clariant's flagship label for sustainability excellence

- EcoTain® is our flagship label for sustainability excellence products and solutions.
 It highlights solutions offering outstanding sustainability advantages and add value to customers and the society as a whole.
- Each product and solution carrying the EcoTain[®] label has undergone a systematic, in-depth screening process using 36 criteria spanning all three sustainability dimensions: social, environmental and economic.
- Its ambitious benchmark distinguishes products that
- significantly exceed market standards in general,
- have best-in-class performance in one or several criteria, and
- make overall sustainability contributions.
- EcoTain® products support actively the sustainability efforts of our customers, without compromising on performance.



EcoTain® label – Clariant's flagship label for sustainability excellence



Together for Sustainability - collaborating for sustainable supply chains

Sustainable supply chains

Since 2014 Clariant has been a member of Together for Sustainability, a cross industry initiative aiming to:

build the industry's standard for sustainable supply chains drive resilience, efficiency, and sustainability of global supply chains

accelerate deployment and foster strong partnerships and commitment of its participants

»Together for Sustainability«

Our commitment to sustainable supply chains

Leading chemical companies form together for sustainability



Ultimate proof points of Clariant's sustainability performance

Member of **Dow Jones** Sustainability Indices

Powered by the S&P Global CSA





Sustainability Yearbook

Member 2021





















Clariant's sustainability leadership has been acknowledged with several awards









B-

78/100

3,7/5

75/100

B- Score Climate Change Water Security

9th consecutive listing

Platinum 99th percentile

CLARIANT: lead through sustainability and innovation

SEVEN SUSTAINABILITY CHALLENGES



Fighting climate change and creating value for customers with low carbon, high performing solutions



Increasing
circularity with
products that
enable reduce,
re-use and recycling



Eliminating
waste and
pollution from
our operations
and value
chains



Creating a
sustainable bio
economy that
protects nature
and maintains
high social
standards
Striving to



create products
that are safe
and
sustainable by
design



Creating social value for our employees, in our business networks, and in society as a whole



Partnering and advocating for a sustainable future



The VITA range of surfactants & PEGs

PRODUCT CATALOGUE



what is precious to you?

The VITA range of 100% bio-based and segregated products (1/3)

INCI / Chemistry	Product group	Trade name	RCI** fossil version [%]	RCI** green version [%]	Estimated Scope 3 reduction***
Laureth-1	Lauryl Alcohol Ethoxylates	Genapol® LA 010 SG Vita	86	100	-0.4
Laureth-2	Lauryl Alcohol Ethoxylates	Genapol® LA 020 SG Vita	75	100	-0.7
Laureth-3	Lauryl Alcohol Ethoxylates	Genapol® LA 030 SG Vita	67	100	-0.9
Laureth-4	Lauryl Alcohol Ethoxylates	Genapol® LA 040 SG Vita	60	100	-1.0
Laureth-5	Lauryl Alcohol Ethoxylates	Genapol® LA 050 SG Vita	55	100	-1.1
Laureth-6	Lauryl Alcohol Ethoxylates	Genapol® LA 060 SG Vita	50	100	-1.2
Laureth-7	Lauryl Alcohol Ethoxylates	Genapol® LA 070 SG Vita	46	100	-1.3
Laureth-9	Lauryl Alcohol Ethoxylates	Genapol® LA 090 SG Vita	40	100	-1.3
Laureth-10	Lauryl Alcohol Ethoxylates	Genapol® LA 100 SG Vita	38	100	-1.5
Laureth-12	Lauryl Alcohol Ethoxylates	Genapol® LA 120 SG Vita	33	100	-1.5
Laureth-16	Lauryl Alcohol Ethoxylates	Genapol® LA 160 SG Vita	27	100	-1.6
Laureth-23	Lauryl Alcohol Ethoxylates	Genapol® LA 230 SG Vita	21	100	-1.8
Laureth-30	Lauryl Alcohol Ethoxylates	Genapol® LA 300 SG Vita	17	100	-1.8
Glycereth-7	Glycerin Ethoxylate	Genapol® G 070 SG Vita*	18	100	-1.6



^{*} REACH Registration on-going, all other products are REACH compliant

^{**} Renewable Carbon Index (RCI)

^{***} Reduction in Carbon footprint with biogenic carbon uptake compared to existing fossil version (kg CO₂ equivalent/kg of product)

The VITA range of 100% bio-based and segregated products (2/3)

INCI / Chemistry	Product group	Trade name	RCI** fossil version [%]	RCI** green version [%]	Estimated Scope 3 reduction***
Ceteareth-7	Cetostearyl Alcohol Ethoxylates	Genapol® T 070 SG Vita	56	100	-1.6
Ceteareth-20	Cetostearyl Alcohol Ethoxylates	Genapol® T 200 SG Vita	31	100	-1.6
Ceteareth-25	Cetostearyl Alcohol Ethoxylates	Genapol® T 250 SG Vita	26	100	-1.7
Oleth-5	Oleyl Cetyl Alcohol Ethoxylates	Genapol® O 050 SG Vita	64	100	-1.6
Oleth-25	Oleyl Cetyl Alcohol Ethoxylates	Genapol® O 250 SG Vita	26	100	-1.6
PEG-30 Castor Oil	Castor Oil Ethoxylates	Emulsogen® EL 300 SG Vita	49	100	-1.3
PEG-36 Castor Oil	Castor Oil Ethoxylates	Emulsogen® EL 360 SG Vita	44	100	-1.3
PEG-40 Castor Oil	Castor Oil Ethoxylates	Emulsogen® EL 400 SG Vita	42	100	-1.3
PEG-55 Castor Oil	Castor Oil Ethoxylates	Emulsogen® EL 550 SG Vita	34	100	-1.6
PEG-20	Hydrogenated Castor Oil Ethoxylates	Emulsogen® HCO 020 SG Vita	59	100	-1.1
PEG-40	Hydrogenated Castor Oil Ethoxylates	Emulsogen® HCO 040 SG Vita	42	100	-1.4
PEG-60	Hydrogenated Castor Oil Ethoxylates	Emulsogen® HCO 060 SG Vita	32	100	-1.6
PEG-3 Rice Bran Ester	Oleic Acid Ethoxylates	Genagen® O 030 SG Vita	75	100	-1.4
PEG-6 Rice Bran Ester	Oleic Acid Ethoxylates	Genagen® O 060 SG Vita	60	100	-1.4
PEG-12 Rice Bran Ester	Oleic Acid Ethoxylates	Genagen® O 120 SG Vita	43	100	-1.4



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^{**} Renewable Carbon Index (RCI)

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The VITA range of 100% bio-based and segregated products (3/3)

INCI / Chemistry	Product group	Trade name	RCI** fossil version [%]	RCI** green version [%]	Estimated Scope 3 reduction***
PEG-6.5 Stearate	Stearic Acid Ethoxylate	Genagen® S 065 SG Vita	58	100	-1.4
PEG-10 Cocoate	Coconut Fatty Acid Ethoxylate	Genagen® C 100 SG Vita	38	100	-1.5
Polysorbate 20	Sorbitan Laurate Ethoxylate	Hostacerin® L 020 SG Vita*	31	100	-1.4
Polysorbate 80	Sorbitan Oleate Ethoxylate	Hostacerin® O 020 SG Vita*	38	100	-1.4
PEG-4	Polyglycols	Polyglykol 200 SG Vita	0	100	-1.0
PEG-6	Polyglycols	Polyglykol 300 SG Vita	0	100	-1.3
PEG-8	Polyglycols	Polyglykol 400 SG Vita	0	100	-1.6
PEG-12	Polyglycols	Polyglykol 600 SG Vita	0	100	-1.7
PEG-20	Polyglycols	Polyglykol 1000 SG Vita	0	100	-2.0
PEG-32	Polyglycols	Polyglykol 1500 SG Vita	0	100	-2.0
PEG-75	Polyglycols	Polyglykol 3350 SG Vita	0	100	-2.1
PEG-90	Polyglycols	Polyglykol 4000 SG Vita	0	100	-2.1
PEG-150	Polyglycols	Polyglykol 6000 SG Vita	0	100	-2.1
PEG-220	Polyglycols	Polyglykol 10000 SG Vita	0	100	-2.1



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