

Media Release

Clariant and Global Bioenergies unveil development of new bio-based cosmetics polymer for more natural formulations

- **New renewable isobutene-based ingredient for Personal Care lotions and creams**
- **Meets ISO 16128:2016**
- **Expands possibilities for brands making a conscious transition to more natural formulations**

Muttenz (Switzerland) and Evry (France) – January 2, 2018 – Clariant, a world leader in specialty chemicals, and Global Bioenergies, a leader in industrial biotechnology, today announced the development of a new bio-based polymer for cosmetic creams and lotions, which is derived from renewable isobutene.

Developed with Global Bioenergies' sugar-based isobutene, Clariant's new ingredient is a rheology modifier that influences formulation viscosity and achieves specific sensorial and texturizing properties for creams and lotions. It contains more than 50% renewable carbon, and consequently meets the ISO 16128:2016 standard for natural and organic cosmetic ingredients and products.

The bio-based polymer is a breakthrough for the industry as it is proven not to change the properties of an application, offering formulators a direct 1:1 alternative to petroleum-based equivalents.

The building block of Clariant's new cosmetics ingredient is currently produced on a small scale at Global Bioenergies' demo plant located in Leuna, Germany. The companies are working on upscaling production with larger volumes.

Ralf Zerrer, Head of Strategic Marketing and Innovation, Business Unit Industrial & Consumer Specialties at Clariant, states: "Supporting our customers in the Personal Care industry with sustainable, bio-based ingredients is a key priority for Clariant. The demand for ingredients based on renewable resources is here to stay and will become the norm among brands in the very near future. With our new polymer, we are delighted to expand current limited opportunities for formulators looking to improve the sustainability of their formulations, letting them make an immediate switch without compromising application properties or performance."

Marc Delcourt, CEO of Global Bioenergies commented: "Renewable isobutene is a widely used building block for cosmetic applications and we are excited by the opportunities it presents for new bio-based ingredients to address the needs of niche markets. Our relationship with Clariant is strengthening, and we expect to continue building our network of partners as we prepare for larger capacities."



Legend: The building block for Clariant's new bio-based cosmetics polymer is produced in Global Bioenergies' demonstration plant in Leuna, Germany.
(Source Global Bioenergies)

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About GLOBAL BIOENERGIES

Global Bioenergies (Euronext Growth Paris: ALGBE) is one of the top industrial biotech companies in the world, and a leader for developing a process to convert renewable resources into hydrocarbons through fermentation. The Company's initial focus is on isobutene, a key petrochemical building block at the basis of fuels, plastics, organic glass and elastomers. Global Bioenergies operates its demo plant in Germany, and prepares the launch of full-scale plants, including a Joint-Venture with Cristal Union, named IBN-One. Global Bioenergies is listed on Euronext Growth Paris (FR0011052257 – ALGBE). Should you like to be kept informed, subscribe to our news feed on

www.global-bioenergies.com

About CLARIANT

Clariant is a globally leading specialty chemicals company, based in Muttenz near Basel/Switzerland. On 31 December 2016 the company employed a total workforce of 17 442. In the financial year 2016, Clariant recorded sales of CHF 5.847 billion for its continuing businesses. The company reports in four business areas: Care Chemicals, Catalysis, Natural Resources, and Plastics & Coatings. Clariant's corporate strategy is based on five pillars: focus on innovation through R&D, add value with sustainability, reposition portfolio, intensify growth, and increase profitability.

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