



Renewable chemicals naturally designed and engineered to deliver the performance that adds value to everyday products

Green Biologics Achieves REACH Certification, Sets Sights on Europe

Compliance with stringent REACH regulations positions company to further expand market share internationally

Ashland, Virginia and Abingdon, Oxfordshire U.K. (June 29, 2017) – [Green Biologics, Inc.](#), the U.S. subsidiary of Green Biologics Ltd., a U.K. industrial biotechnology and renewable chemicals company, announced today that it has received REACH certification, a regulation of the European Union that promotes protection of human and environmental health from risks posed by chemicals. By registering with REACH, which stands for Registration, Evaluation, Authorisation of Chemicals, Green Biologics is now able to supply Europe with larger bulk quantities of its bio-based n-butanol. The company has also obtained pre-registration for its bio-based acetone and various derivatives, allowing it to ship up to 100 tonnes of these chemicals to Europe through June 1, 2018. This achievement underlines Green Biologics' commitment to embracing a global view on customers and business. It also enables the company to solidify its long-term position as a supplier to customers and markets in Europe.

"Although Green Biologics' first manufacturing site is based in North America, as the only producer of bio-based n-butanol and acetone in the world there are a wide range of opportunities for our products to be adopted across Europe as replacements to their traditional petroleum-based counterparts," said Sean Sutcliffe, Chief Executive at Green Biologics. "Europe will be a key growth market for our company and the REACH registration of our n-butanol will help us navigate the many complex regulatory requirements associated with importing chemicals into the region."

The result of more than 100 years of research and development, Green Biologics' fermentation platform utilizes a robust library of *Clostridium* microbial strains as biocatalysts to produce its 100 percent bio-based n-butanol and acetone. The company has plans to offer a full suite of BioPure™, 100 percent bio-based, high purity, products through its patented Advanced Fermentation Process™ and third-party partnerships. Currently, all Green Biologics chemical products are being produced at the company's commercial facility, Central Minnesota Renewables, located in Little Falls, MN, which [officially began operations](#) in December of last year.

Green Biologics is a member of the American Chemistry Council (ACC) and its commercial facility, Central MN Renewables LLC, has been built to meet Responsible Care® standards. The company's n-butanol and acetone have received 100 percent bio-based, [USDA BioPreferred®](#) certification.

To learn more about Green Biologics, please visit www.greenbiologics.com.

About Green Biologics

Green Biologics Ltd (GBL) is a renewable specialty chemicals company based in Abingdon, England with a wholly owned U.S. operating company, Green Biologics Inc., based in Ashland, Virginia. GBL's *Clostridium* fermentation platform converts a wide range of sustainable feedstocks into high performance green chemicals such as n-butanol, acetone, and through chemical synthesis, derivatives

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of butanol and acetone used by a growing global consumer and industrial products customer base. The platform combines advanced high productivity fermentation with superior-performing proprietary Clostridium microbial biocatalysts and synthetic chemistry to produce a pipeline of high value green chemicals with optimal performance in downstream formulations.

Green Biologics was named to the Global Cleantech 100 list of the top Cleantech companies in the world for 2017 and was recently named the best renewable chemical company in the U.K. in the 2016 Clean Energy Awards.

Green Biologics is transforming the global specialty chemicals market, providing its customers with products and technologies that are more sustainable and higher value than petroleum-based alternatives. For more information, visit www.greenbiologics.com.

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