



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

## Green Biologics Begins Customer Shipments at First Commercial Plant

*Little Falls, MN, facility produces 100 percent bio-based n-butanol and acetone*

Ashland, Virginia USA and Abingdon, Oxfordshire U.K. (December 13, 2016) – [Green Biologics, Ltd.](#), a UK industrial biotechnology and renewable specialty chemicals company, announced today the start of commercial shipments of bio-based n-butanol and acetone from its manufacturing facility in Little Falls, Minnesota.

Over the past year, Green Biologics has built a robust pipeline of domestic and export customers combined with multiple partnerships to bring its products to downstream markets. These include distribution agreements with [Acme Hardesty](#), [Nexeo Solutions](#), and [Caldic](#) as well as a strategic partnership with [HOC Industries](#), a custom blender, packager and distributor of consumer and government products. The company is collaborating with other industry leaders in a range of specialty markets and applications where performance and sustainability drive value.

“The start of our first commercial facility is a critical milestone in building our position within the industry as a global renewable specialty chemicals company,” said Sean Sutcliffe, Chief Executive of Green Biologics. “We’re very proud to announce the start of shipments to key customers in high-value markets and look forward to working with existing and new collaborators to bring a wide range of sustainable, environmentally-friendly products to shelves.”

Offered as a high-performance, high purity, fully-sustainable alternative to conventional petrochemical-based commodities, Green Biologics’ specialty chemicals aim to drive value in customer applications and downstream markets ranging from specialty coatings, pharmaceuticals, cosmetics, personal care and consumer products. Both butanol and acetone products carry the brand name [BioPure™](#) and have received [USDA BioPreferred® status](#). As a member of the [American Chemistry Council \(ACC\)](#), Green Biologics’ commercial facility is actively working towards meeting [Responsible Care®](#) standards.



Through its own manufacturing efforts and collaborations with industry partners, Green Biologics offers a wide portfolio of 100 percent bio-based products in addition in addition to n-butanol and acetone, including high purity 100 percent bio-based isopropyl alcohol and a range of specialty esters of n-butanol, isopropanol and other bio-based alcohols.

### Contact Information:

Green Biologics Inc.  
Attn: David Anderson  
Global Vice President Marketing  
[david.anderson@greenbiologics.com](mailto:david.anderson@greenbiologics.com)  
Website: [www.greenbiologics.com](http://www.greenbiologics.com)



“There’s a clear and urgent demand within consumer and industrial markets for more sustainable products that can deliver improved performance over traditional petro-based commodities,” said David Anderson, Global Vice President of Marketing for Green Biologics. “We’re meeting this need by creating high-value, performance-driven speciality chemicals and formulated products, all sourced from the chemicals produced at our commercial facility, and continuing to work in collaboration with industry leaders who share our vision.”

The Little Falls, Minnesota plant was purchased in December 2014 through the acquisition of assets from the Central MN Ethanol Cooperative LLC (CMEC). Green Biologics re-named the site Central MN Renewables (CMR) and commenced construction on its renewable chemicals facility in September 2015. The 21 million gallon-per-year ethanol plant was retrofitted with Green Biologics’ proprietary advanced fermentation technology to produce bio-based n-butanol and acetone. Production is expected to ramp up to full capacity over the next twelve to eighteen months.

To learn more, please visit [www.greenbiologics.com](http://www.greenbiologics.com).

#### **About Green Biologics**

Green Biologics Ltd (GBL) is a renewable 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 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 2014 and 2015 and was also #8 on the Hottest 40 Small Companies in the Bioeconomy and #22 on the Hottest 30 list for Bio-based Chemicals and Materials for 2015.

Green Biologics is transforming the global specialty chemicals market, providing its customers with products and technology that are more sustainable and higher value than petroleum-based alternatives. For more information, visit [www.greenbiologics.com](http://www.greenbiologics.com).

###

#### **CONTACT INFORMATION**

##### **For Green Biologics**

David Anderson – Global VP Marketing  
+1 804 368 6136  
[david.anderson@greenbiologics.com](mailto:david.anderson@greenbiologics.com)

---

#### **Contact Information:**

Green Biologics Inc.  
Attn: David Anderson  
Global Vice President Marketing  
[david.anderson@greenbiologics.com](mailto:david.anderson@greenbiologics.com)  
Website: [www.greenbiologics.com](http://www.greenbiologics.com)