

PRESS RELEASE

BIO-LUTIONS partners with Solenis to produce sustainable disposable alternatives to single-use plastic

BIO-LUTIONS, a German CleanTech Startup pioneering the world of natural fiber manufacturing, is working with Solenis, a leading global producer of specialty chemicals to produce sustainable disposable alternatives to single-use plastic.

Hamburg, 23. March 2022

BIO-LUTIONS a Hamburg-based CleanTech company, mechanically converts agricultural residues into unique, self-binding, durable **fibcro**® natural fibers. This patented method eliminates the need for binding agents or chemical cellulose isolation, as the fiber itself is used. From these fibers, BIO-LUTIONS creates a variety of sustainable single-use disposable products and packaging.

Solenis, a leading global producer of specialty chemicals, is partnering with BIO-LUTIONS, to develop more sustainable disposable products to replace various single-use plastic products in food packaging applications.

BIO-LUTIONS is using Solenis' portfolio of barrier coatings for fiber-based products, which includes a range of products that repel water and water vapor, hot and cold liquids and oils and greases. These barrier coatings are available as either water-based polymer emulsions or solid biowaxes and are produced using the highest level of renewable raw material content currently feasible. Most importantly, fiber-based products coated with these barrier coatings typically are repulpable, recyclable, compostable and biodegradable, thereby offering packaging producers a way to improve their sustainability credentials with brand owners, retailers and consumers.

"The demand for sustainable packaging has increased dramatically in recent years as consumers have become more mindful of the effects their buying choices have on the environment," said Richard Brooks, Global Packaging Director, Food Packaging at Solenis. "Being a technology partner with such a new and innovative company like BIO-LUTIONS will allow a close working relationship where we can exchange ideas that hopefully lead to faster innovation and the creation of more sustainable disposable products for the food and beverage paper packaging market."

"The extensive experience and know-how of Solenis is a great addition to our technical expertise in agricultural fiber-based product manufacturing. Our joint development of new barrier formulations for these products will create even more sustainable solutions for the market," said Eduardo Gordillo, Founder and CEO of BIO-LUTIONS International AG. "The goal of our collaboration is to create innovative formulas for optimal symbiosis between the barriers and our **fibcro**® fibers, to meet the increased demand for sustainable solutions in the food and beverage industry. We are excited to work with the industry leader, Solenis, and to start addressing the complex challenges of the market together."

About BIO-LUTIONS

BIO-LUTIONS is a Hamburg-based Clean Tech company that mechanically converts agricultural residues into unique, self-binding, durable **fibcro**® natural fibers. This patented method eliminates the need for binding agents or chemical cellulose isolation. The unique production process gives previously unused agricultural residues a second life as raw materials. These **fibcro**® natural fibers can now be used to produce sustainable packaging and disposable tableware, among other things. These sustainable products offer an optimal alternative to common products made of paper and plastic. The concept of decentralized production is a fundamental aspect of the BIO-LUTIONS philosophy because sustainable materials must also be sustainably sourced. The German Clean Tech start-up was founded in 2017 and is currently expanding in Asia and Europe. The first factory was opened in Bangalore, India, and is now being followed by the approximately 1800m² production facility in Schwedt, Germany.

For more information please visit: www.bio-lutions.com.

About Solenis

Solenis is a leading global producer of specialty chemicals, focused on delivering sustainable solutions for water-intensive industries, including the pulp, packaging paper and board, tissue and towel, oil and gas, petroleum refining, chemical processing, mining, biorefining, power, municipal, and pool and spa markets. The company's product portfolio includes a broad array of water treatment chemistries, process aids and functional additives, as well as state-of-the-art monitoring and control systems. These technologies are used by customers to improve operational efficiencies, enhance product quality, protect plant assets, minimize environmental impact and maintain healthy water. Headquartered in Wilmington, Delaware, the company has 47 manufacturing facilities strategically located around the globe and employs a team of over 6,000 professionals in 120 countries across five continents. Solenis is a 2021 US Best Managed Company.

For additional information about Solenis, please visit www.solenis.com or follow us on social media.

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