

Daily Note

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Atul Roshan, Research Analyst, atul.roshan@spglobal.com

Bionema launches biodegradable surfactant

Bionema Group has unveiled Soil-Jet BSP100, a biodegradable surfactant incorporating patented Polyether-Modified Polysiloxane technology. The company reports that the innovation is designed to significantly enhance the efficiency of agricultural biologicals and agrochemicals, fostering plant health and growth. The company further reports that BSP100 has a transformative impact on agriculture, emphasizing its ability to optimize water and nutrient utilization, combat soil water repellence, and create an ideal environment for plant growth. Field trials indicate a 20-30% increase in the efficacy of agrochemicals and biologicals compared to existing products. BSP100 is claimed to offer benefits such as resource-efficient irrigation, reduced runoff and erosion, accelerated water penetration, improved moisture distribution and stable soil moisture for robust plant growth. The recommended application rate is 1 to 2 litres per hectare across various crops, with repeated applications at intervals of at least 10 days and up to six times per growing season.

John Deere partners with SpaceX

John Deere has partnered with SpaceX to provide satellite communications (SATCOM) services to farmers, utilizing the Starlink network. This collaboration aims to address rural connectivity challenges, allowing farmers to leverage precision agriculture technologies. The company says that the SATCOM solution is a first in the industry and will enhance productivity, profitability, and sustainability for John Deere customers by enabling autonomy, real-time data sharing, remote diagnostics, and machine-to-machine communication. The solution will connect new and existing machines through satellite internet service and ruggedized satellite terminals, with a focus on maximizing the value of connectivity in agricultural operations. The rollout is set to begin in the second half of 2024, starting with a limited release in the United States and Brazil.

Evonik achieves ISCC PLUS certification

Evonik has received the International Sustainability and Carbon Certification (ISCC) PLUS certification for its specialty chemicals production at the Essen Goldschmidt site. This certification, based on the mass balance approach, ensures the use of sustainable feedstocks and traceable supply chains. The Goldschmidt site joins other Evonik sites in gaining accreditation for sustainable supply chains, aligning with the company's Next Generation Solutions sustainability strategy. The certification allows Evonik to offer certified specialty chemicals, including surfactants, with a higher proportion of renewable raw materials. These products will be available to customers from the first half of 2024, providing an option to reduce the use of fossil resources and improve product sustainability without altering production processes. The mass balancing approach enables the tracking of renewable material usage in complex manufacturing systems, contributing to Evonik's efforts to lower its carbon footprint and support customers in meeting sustainability and environmental regulation demands.

CONTACTS

Europe, Middle East, Africa: +44 (0) 203 367 0681

Americas: +1 800 332 6077

Asia-Pacific: +60 4 296 1125

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