



**LUVOMAXX:**  
For sustainable  
Rubber Products  
and a Greener  
Tomorrow

- **Precipitated Silica from Rice Husk Ash – Brisil, India**
- **Liquid Polybutadiene – EVONIK, Germany**
- **Plasticizers from Renewable Sources – Matrica, Italy**
- **Sustainable Talc – Magris, USA**
- **Cationic/Alkaline Activator for Sulfur Vulcanization – Oxitec, Brasil**
- **Renewable Functional Fillers (RFF) – UPM, Finland**
- **Bio-Attributed Synthetic Polymers – Versalis, Italy**

### **Precipitated Silica from Rice Husk Ash – Brisil, India**

BSIL - a "green" Silica as a sustainable filler for rubber. A significant lower CO<sub>2</sub> footprint makes the product ideal as a direct replacement for conventional Silica and other active fillers. The range includes various types from traditional grades to highly dispersible Silica. Based on its own, patented technology, Brisil manufactures this product already for several years. Current annual capacity is approx. 7.5Kt.

### **Liquid Polybutadiene – EVONIK, Germany**

Polyvest® – a range of functionalized and non-functionalized liquid polybutadienes. Versatile in use as cross-linkable plasticizer, co-agent in peroxide vulcanization, coupling agent with Silica or processing additive. Polyvest® eCO offers the opportunity to get all types from ISCC Plus certified sustainable production (mass balance approach).

### **Plasticizers from Renewable Sources – Matrica, Italy**

Matrilox synthetic plasticizers based on vegetable oil. Matrilox plasticizers are sustainable alternatives to TDAE-Oil and ester plasticizers in diene elastomers such as SBR or NBR. Matrilox plasticizers offer an easy drop-in solution in rubber formulations with no significant interaction on vulcanization characteristic.

### **Sustainable Talc – Magris, USA**

UL Environment validated and certified talc products of the brands JetFil®, Mistron® and Silverline®. These new sustainable grades are 100% from pre-consumer (post-industrial) recycled feedstocks, converted into high purity talc. Magris talcs are highly functional filler materials, providing various advantages such as improved processing or barrier properties.

### **Cationic/Alkaline Activator for Sulfur Vulcanization – Oxitec, Brasil**

Oxirubber – a novel and environmentally friendly alternative to zinc oxide as activator in Sulfur vulcanization. Oxirubber is a fully sustainable product, as it's based on a by-product of pulp production. Furthermore, unlike zinc oxide, Oxirubber is not classified as dangerous goods. Start of commercial production is in full swing.

### **Renewable Functional Fillers (RFF) – UPM, Finland**

RFF - a wood-based, pioneering new generation of sustainable fillers for rubber and plastics. A negative carbon footprint, biodegradability and zero PAHs are just some of the remarkable features of this unique product. Soon to be manufactured in the world's first of its kind biorefinery in Leuna, Germany, RFF is truly a sustainable solution for rubber and plastics.

### **Bio-Attributed Synthetic Polymers – Versalis, Italy**

Europrene® and Dutral® synthetic polymers from bio-naphtha and chemical recycling. Versalis has obtained a ISCC Plus certification for production of synthetic polymers (mass balance approach). All certified polymers do not differ in their chemical composition and physical-mechanical performance from those made from fossil-based raw materials.



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