

## **CLIB<sup>2021</sup> Project:**

### **Polymere Tensides: Performance optimized tensides from renewable resources (PolyTe)**

#### **Description:**

Aim of the Project is the development of new bio-based tensides which are made on the basis of 100% renewable resources and green reaction-technologies. Furthermore, plant derived lipids shall be innovatively combined with proteins and carbohydrates to obtain inventive biobased tenside-polymers. Using the combination of sustainable chemistry, enzyme-catalysis and fermentation technology in direct assistance with the latest purification technologies shall ensure a fast transfer from project idea to the final product or production process.

The end-products shall be produced in high quality and purity, meeting the demands of the cosmetic industry. Besides on positive application and formulation abilities focus is on good recycle ability of the products. The environmental sustainability of the products shall be verified with "Life Cycle Assessment" studies.

#### **Partner:**

Cognis GmbH, Düsseldorf; C-LEcta GmbH, Leipzig; Taros GmbH, Dortmund; Institut für Molekulare Enzymtechnologie, FZ Jülich; Institut für Bioorganische Chemie, FZ-Jülich; Fraunhofer Institut UMSICHT, Oberhausen; Lehrstuhl für Fluidverfahrenstechnik, TU Dortmund; Fraunhofer Institut für Grenzflächen und Bioverfahrenstechnik, Stuttgart; Lehrstuhl für Technische Biologie; TH Karlsruhe

**Period of project:** 2008 - 2011

**Funding Agency:** BMELV (Fachagentur Nachwachsende Rohstoffe e.V.)

#### **Contact:**

Dr. Ulrich Schörken  
Cognis GmbH; Henkelstr. 67; 40589 Düsseldorf  
Tel: 0211-7940-5535  
Fax: 0211-2006-15535  
ulrich.schoerken@cognis.com