



## POLYLABS

### Foundation

- 2014

### Branches

- Bio Polyols as raw materials for polyurethane products

### Key materials

- Renewable materials
- Greentech
- Rigid foam
- Polyurethanes
- Polyisocyanurates
- Construction
- Insulation

### Key products

- Bio Polyols
- Raw materials

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**POLYLABS**<sup>TM</sup>  
BIOPOLYOL SYSTEMS

## COMPANY

Polylabs is an innovative chemical manufacturing company. We produce and sell bio polyols. Together with our scientific partner Institute of Wood chemistry of Latvia we have know-how of more than 50 years in the polyurethane industry. Our bio based polyol is a unique product based on natural oils. Our production capacity today is 3000 t p.a. We are represented in 19 countries in EU. More information available in [www.polylabs.eu](http://www.polylabs.eu).

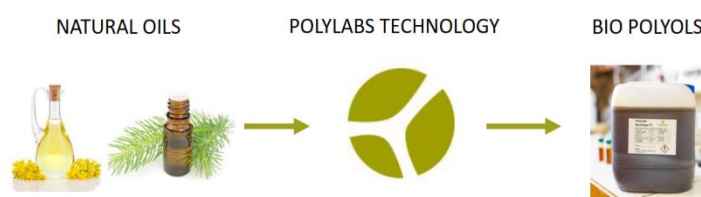
## PRODUCTS

Polyurethane (PU) is one of the most popular polymer products in the world used in many industries, such as: construction (insulation material, foam), sports equipment manufacturing (surfboards, etc), automotive and other.

The problems in the PU industry are simple: high dependence on crude oil, high CO<sub>2</sub> footprint, no ECO labels on crude oil products, low points in construction standards (BREMM, Lead) lack of reasonably priced renewable resources supply and lack of convenience to develop PU products from renewable bio based materials.

Our Bio Polyols are high quality bio based products manufactured using renewable materials (natural oils). The best use for these polyols is the production of rigid polyurethane foams for thermal insulation application and other polyurethane products.

Our products are CO<sub>2</sub> negative, up to 83% bio carbon content, and they are on the same price level as conventional polyols. The production does not generate waste, by products or hazardous emissions (VOCs) and entails a unique one step process.



- One step process
- Wasteless technology
- Resource efficient

## PRODUCT BENEFITS

- Green alternative – high renewable content – great marketing advantage over other insulation companies
- Crude oil replacement with renewable resources – independence from crude oil;
- CO<sub>2</sub> footprint reduction;
- High % renewable content;
- ECO certificate compliant;
- Same price range as crude oil polyols;
- Save in PU production;
- Technical advantages:
  - Highly hydrophobic nature;
  - Autocatalytic – possible reduction of catalysts;
  - Great miscibility with pentanes and other additives.