

Contract No.: QLK5-CT-2000-00766

Title: Development of Industrial Solutions for the Recycling and Valorisation of the Olive Oil Fabrication Residues for Biopolymers and Fine Chemicals

Duration: 01/01/2001 - 30/06/2004

Abstract

The main objective of this project was the development of high added value industrial applications for the recycling and valorisation of the main compounds included in the solid and liquid residues of the olive and pomace oil fabrication. Lignin and cellulose that were contained in the solid residue 'orujillo' were transformed by liquefaction into new polymer compounds suitable to replace the petroleum derived components.

CHIMAR developed a method for the production of phenol-formaldehyde resin by substituting significant quantities of the phenol with the liquefied olive stone residue. The resins were applied in the manufacturing of plywood panels.