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DEASYL, solutions for a fuel environmentally friendly

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PURPOSE OF THE ABSTRACT

Deasyl is an international supplier of technologies and catalysts for petrochemical industry. During the technology transfer, we assist and advise our customers, stakeholders and future actors in the production of biodiesel.

Deasyl SA was established in 2016 in the recent development of chemistry field company Easy! SA with a Swiss technology. Easy! holds a portfolio of patents and works since 1999 in research and supply development of ceramic materials pertinent for storing electricity.

OUR OBJECTIVES

Mission

Our mission is to provide cutting edge solutions to produce eco-responsible green biodiesel.

This mission is accomplished by:

- Activities that allow our customers to improve performance
- Technology transfer of our efficient solutions
- Technical solutions allowing local salvage of used vegetable oils
- Innovation that capitalizes glycerol (glycerine) which is a co-product waste during the production of biodiesel

In order to achieve our mission, we intend:

- To provide the most reliable, powerful and efficient catalyst
- To develop technical production solutions tailored to our customers
- To communicate with our customers in order to actively promote our green biodiesel
- To inform the last consumer on aspects to the biodiesel production cycle with the help of our new process with low environmental impact
- To ease access to green biodiesel

Our ambitions

These advantages allow the final biodiesel product to be lastly recognized as a biofuel with low impact on environment and social level and be part of a sustainable development approach to be in line with expectations and challenges of the 21st century;

- Neutral carbon balance
- Production with low environmental impact
- Disappearance of social impact of first-generation biodiesel because of the use of vegetable oils from waste and reduce emissions of fine particles, toxic to humans
- Reducing CO₂ emissions related to the use of biodiesel combined with an increase in global demand in a context of scheduled end of fossil fuels

Our ambition is to become a leader in the heterogeneously catalyzed transesterification, the biodiesel production process that will eventually replace transesterification in homogeneous catalysis [1].

WHO WE ARE

Our values

The combination of our technical expertise and our scientific knowledge has allowed us to create recovery loops that allow reducing energy and raw materials usage. The development of these loops with little impact on the environment also qualifies as positive trends that prove to be virtuous and generate savings.

Our responsibility to the planet is systematically reinvesting our profits into finding new solutions increasingly efficient, because energy issues and environmental concerns of the 21st century are ours.

Collaboration

Open innovation (Open Innovation), regarding research and development, refers to innovative methods based on information sharing and collaboration. We fully enroll in this process through our partnership with the University of Malaga.

Aware that many of our challenges involve developing a clear business strategy, combined with a relevant communication, we associate with Synchronize communication to meet these challenges.

As result of lasts years of research 2 patents are published about a new method for producing fatty acid esters and glycerol at low temperature and synthesis process for calcium diglyceroxide.

FIGURES

FIGURE 1

FIGURE 2

KEYWORDS

DEASYL | fuel environmentally friendly | biodiesel | glycerol valorisation

BIBLIOGRAPHY