



PROJECT

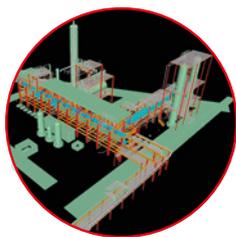
CAPACITY EXPANSION AND TECHNOLOGY REVAMP

PUENTE MAYORGA
CHEMICALS PLANT



CEPSA

We grow to maintain our LAB leadership



The project covers a full revamp of the plant to expand its capacity and install DETAL technology. The plant will also have new loading and unloading units, control room, and Cepsa's workspace culture, "Hadi", to promote new ways of working.



The modernization and optimization of the plant will guarantee its sustainability and the project is forecast to be concluded in 2020, coinciding with the plant's 50th anniversary, which marked the start of Cepsa's LAB business.



The project will consolidate our world leadership in LAB production (15% market share), to reach a total production at our plants of approximately 600,000 tons/year.

THE PROJECT IN NUMBERS



INVESTMENT

€100

million

CONSTRUCTION

650,000

man hours

DURATION

2 years

(2018-2020)

AVERAGE WORKFORCE

250 people

with peaks of **400**

CAPACITY INCREASE

25%

to 250,000 tons/year

PIPING

40

km (cabling **60** km)

STEEL

700

tons

CONCRETE

3,180

m³

DETAL Technology

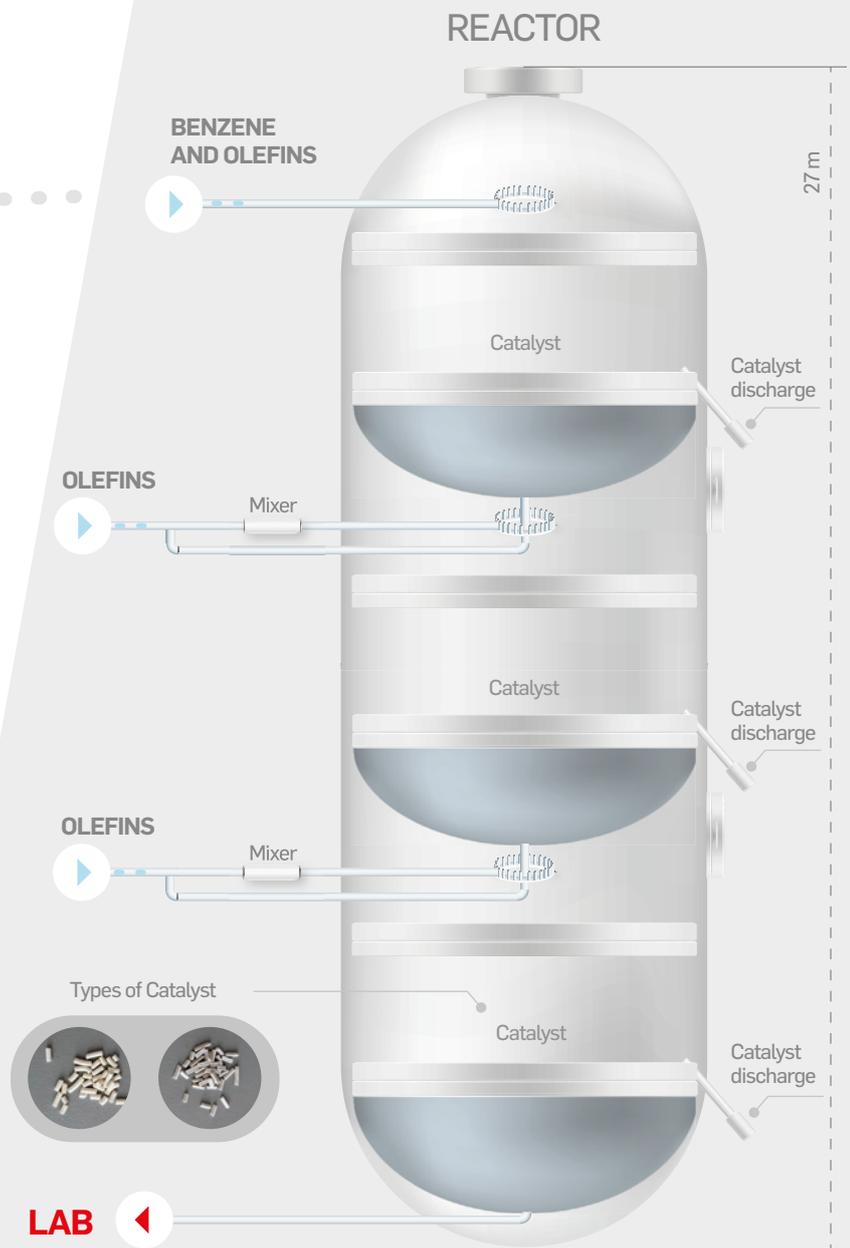
A pioneering technology in the sector developed by Cepsa and Universal Oil Product (UOP). Our chemicals plant in Canada was the first in the world to use this process in 1995. Since then, 85% of new LAB capacity added use this technology.

THE ADVANTAGES OF DETAL TECHNOLOGY

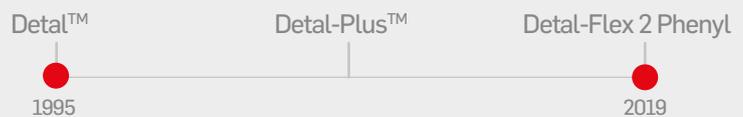
- Improves quality of final product
- Optimizes raw material consumption (increasing efficiency and lowering emissions)
- Reduces fixed and associated costs
- Improves safety and lowers environmental impact
- Simplifies maintenance shutdowns and start-up, and optimizes production processes



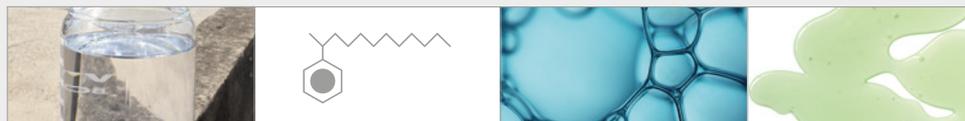
The new plant will have two reactors to alternate production cycles and catalyst regeneration



PROCESS IMPROVEMENT AND EVOLUTION OF DETAL TECHNOLOGY



Detal-Flex 2 Phenyl incorporates a new generation of the most efficient and versatile catalysts capable of producing different grades of commercial LAB at the same plant.

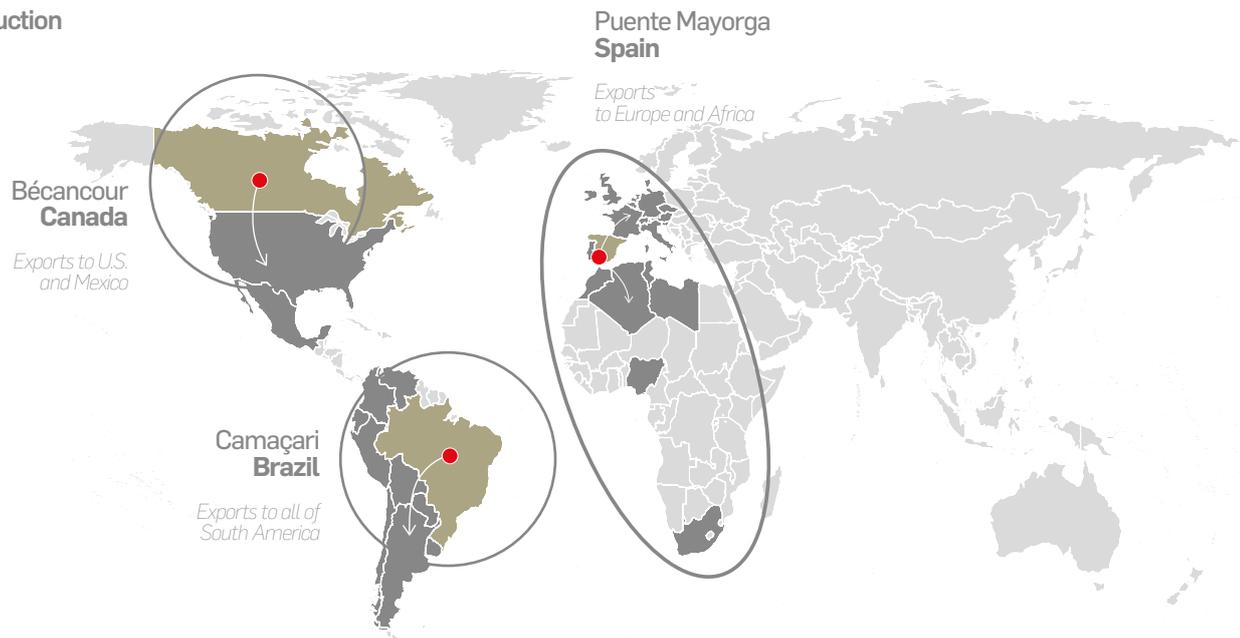


WHAT IS LAB

Linear alkylbenzene is a raw material used to manufacture biodegradable detergents. Through a process of sulfonation it is transformed into **LABSA**, and through its neutralization to **LAS** (linear alkylbenzene sodium sulfonate). This product is the most versatile and widely used biodegradable detergent used to produce **detergent powders, liquids, gels, agglomerates, soap bars or tablets.**

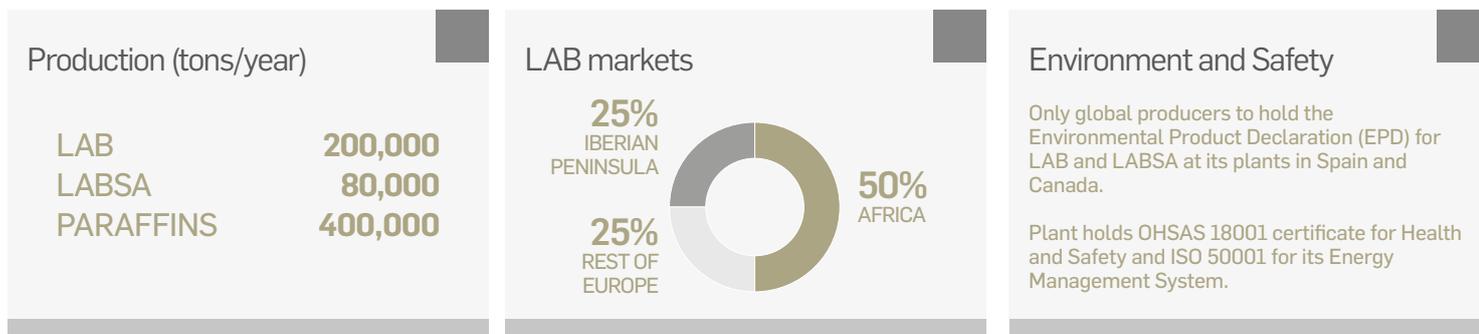
The **expansion and enhancement** project at the Puente Mayorga chemicals plant forms part of the Company's **2030 Strategy**.

Cepsa's LAB production chemicals plants



The production capacity expansion at the Puente Mayorga plant will help us to supply high growth African markets, which are forecast to grow at an annual rate of 5% until 2035.

PUENTE MAYORGA IN NUMBERS



CEPSA'S CHEMICALS BUSINESS



World leader in LAB production



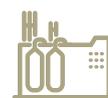
Second world producer of PHENOL and ACETONE



World leader in CUMENE production



Leader in sale of SOLVENTS in Spain, Portugal, Italy, and UK



Plants in Germany, Brazil, Canada, China, Spain, Indonesia, UAE (project)



New business line in fatty alcohols in Dumai, Indonesia