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## Cepsa To Convert Detergent Plant from Hydrofluoric Acid to Honeywell UOP Solid Bed Technology

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#### *Cepsa To Convert Detergent Plant from Hydrofluoric Acid to Honeywell UOP Solid Bed Technology*

DES PLAINES, Ill. – July 11, 2018 – Honeywell (NYSE: HON) announced today that Cepsa will convert an alkylation unit using hydrofluoric acid to Honeywell UOP's solid bed Detal-Plus™ technology at its refinery in San Roque, Spain. The unit produces linear alkylbenzene (LAB), which is used to make a variety of different detergent formulations, including biodegradable household detergents.

Honeywell will provide catalysts and adsorbents, basic engineering design and other associated services for the complex. When completed in 2020, this project will mark the world's first conversion of an HF alkylation unit to solid bed technology. With the conversion to Detal-Plus technology, the plant's capacity will increase by 50,000 metric tons to 250,000 metric tons of LAB per year.

"The Detal-Plus technology is a highly efficient solid bed process for making detergent alkylate," said John Gugel, president of Honeywell UOP. "It also has the added benefit of being far simpler to operate."

The Detal-Plus technology, which was co-developed with Cepsa, is the first solid bed technology with the flexibility to produce LAB for a variety of different

detergent formulations. The heart of the process is Honeywell UOP's new ZDA-30 series catalyst which features higher activity and selectivity, making it more energy efficient.

"In addition to pioneering development of this technology with UOP, Cepsa is the world leader in the manufacture of LAB," said Miguel Ángel Calderón, vice president, Technology at Cepsa. "This project allows us to revamp the Puente Mayorga plant at San Roque, so we can enhance its competitiveness, and apply this experience to our other installations around the world."

The Detal-Plus technology, combined with Honeywell UOP's Molex™, Pacol™, DeFine™ and PEP™ processes, forms an integrated and energy-efficient LAB complex. The Molex process provides one of the most economical routes to produce normal paraffins from kerosene. Pacol technology performs dehydrogenation of normal paraffins to olefins, and PEP technology handles the selective removal of aromatics

Honeywell pioneered the manufacture of LAB in the 1960s, helping address the negative environmental impact of conventional detergents. Today, LAB from Honeywell UOP processes is the most widely used component in the production of biodegradable detergents, emulsifiers, dispersants, wetting and foaming agents.

Cepsa is a global energy company, which operates at all stages of the hydrocarbon value chain, and manufactures products from plant-based raw materials. It is a wholly owned business of Mubadala Investment Company, one of the world's largest sovereign wealth funds. With more than 85 years of experience and a team of nearly 10,000 professionals, Cepsa is active on five continents through exploration and production, refining, chemical, marketing, gas and electricity, and trading activities.

Honeywell UOP ([www.uop.com](http://www.uop.com)) is a leading international supplier and licensor of process technology, catalysts, adsorbents, equipment, and consulting services to the petroleum refining, petrochemical, and gas processing industries. Honeywell UOP is part of Honeywell's Performance Materials and Technologies strategic business group, which also includes Honeywell Process Solutions ([www.honeywellprocess.com](http://www.honeywellprocess.com)), a pioneer in automation control,

instrumentation and services for the oil and gas, refining, petrochemical, chemical and other industries.

Honeywell ([www.honeywell.com](http://www.honeywell.com)) is a Fortune 100 software-industrial company that delivers industry specific solutions that include aerospace and automotive products and services; control technologies for buildings, homes, and industry; and performance materials globally. Our technologies help everything from aircraft, cars, homes and buildings, manufacturing plants, supply chains, and workers become more connected to make our world smarter, safer, and more sustainable. For more news and information on Honeywell, please visit [www.honeywell.com/newsroom](http://www.honeywell.com/newsroom).

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Contact:

John Simley

847-391-2278

[John.Simley@honeywell.com](mailto:John.Simley@honeywell.com)

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