

### **The Advanced Industrial Intermediates business unit**

The Advanced Industrial Intermediates (All) business unit is part of specialty chemicals company LANXESS and one of the world's leading manufacturers of high-quality industrial chemicals.

One of the main focuses of All's product range is aromatic compounds – including the associated chlorination and in some cases also nitration of toluene or benzene. Chlorobenzenes, chlorotoluenes, nitrotoluenes and their derivatives such as nitrochlorobenzenes, cresols, toluidines and monoisocyanates are produced at the Leverkusen site. Production is organized in a so-called "aromatics network", an integrated cluster of interconnected industrial-scale production facilities at four of LANXESS's sites in Germany. This network is regarded as the largest of its kind in the world. The company's specialized know-how lies above all in maintaining an isomer balance of these aromatic hydrocarbons in accordance with market needs, a skill mastered by very few manufacturers worldwide.

#### **Broad basis for industry**

In addition, All is a leading producer of amines, aminoalcohols and benzyl products as well as oxidation products such as phthalic anhydride and maleic anhydride. Hydrazine hydrate and polyols such as trimethylolpropane and hexanediol are also in the business unit's portfolio. In addition, the business unit produces and markets inorganic basic chemicals such as hydrofluoric acid, sulfuric acid, sodium bisulfite, thionyl chloride and sulfuryl chloride as well as calcium sulfate and calcium formate. All also manufactures a large number of rubber chemicals and markets these worldwide.

All's customers are from virtually all industrial segments. With its comprehensive product portfolio and many years of production

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## Background Information

experience, the business unit is regarded around the world as a dependable partner, especially with regard to quality and reliability. All's high-quality intermediates are primarily used in the manufacture of agricultural active ingredients, polymers, surface coatings, tires and pigments. Further important applications include cosmetics, flavorings, fragrances, fuel additives, lubricants, technical rubber goods and construction chemicals. The construction sector uses calcium sulfate as a high-quality screed binder (anhydrite binder).

The All business unit is part of LANXESS's Advanced Intermediates segment, which recorded sales of EUR 1,826 million in fiscal 2015. It is headed by Dirk Van Meirvenne and currently employs around 2,100 people worldwide.

### Key brands

**Baynox**<sup>®</sup>: these biodiesel stabilizers prolong the storage stability of this fuel, which is made of renewable raw materials, by preventing premature oxidation of unsaturated fatty acid esters contained in the biodiesel.

**Bayowet**<sup>®</sup>: fluorosurfactants, which are used, for example, as spray mist inhibitors in pickling and galvanizing baths (Bayowet<sup>®</sup> FT 248) and as heat-resistant flame retardants for polymers (Bayowet<sup>®</sup> C4).

**Diphyl**<sup>®</sup>: organic heat transfer media.

**Vulkanox**<sup>®</sup>: antioxidants protect organic compounds such as mineral oils, adhesives, paints, aliphatic and cyclical ethers, vegetable oils, plastics, elastomers and latices from oxidation.

**Vulkacit**<sup>®</sup>: vulcanization accelerators for sulfur crosslinking.

**Renacit**<sup>®</sup>: peptizing agents for natural rubber.

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### Sites

Brunsbüttel, Dormagen, Krefeld-Uerdingen, Leverkusen (all Germany), Antwerp (Belgium), Baytown and Bushy Park (United States), Weifang, Liyang (China), Jhagadia and Nagda (India)

For more detailed information go to:

<http://advancedindustrialintermediates.com/en/home/>

<http://anhydrit.de/>

LANXESS is a leading specialty chemicals company with sales of EUR 7.9 billion in 2015 and about 16,700 employees in 29 countries. The company is currently represented at 55 production sites worldwide. The core business of LANXESS is the development, manufacturing and marketing of chemical intermediates, specialty chemicals and plastics. Through ARLANXEO, the joint venture with Saudi Aramco, LANXESS is also a leading supplier of synthetic rubber. LANXESS is listed in the leading sustainability indices Dow Jones Sustainability Index (DJSI World) and FTSE4Good.

Cologne, October 2016

### **Forward-Looking Statements**

This news release may contain forward-looking statements based on current assumptions and forecasts made by LANXESS AG management. Various known and unknown risks, uncertainties and other factors could lead to material differences between the actual future results, financial situation, development or performance of the company and the estimates given here. The company assumes no liability whatsoever to update these forward-looking statements or to conform them to future events or developments.

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