News Release

LF prepolymers will therefore not be affected by the forthcoming EU-wide restrictions on diisocyanates. At the same time, they improve the mechanical properties of the PU end products. In future, we will therefore be offering all products in the Adiprene LF range, including MDI-based types with isocyanate contents of less than 1 %", explained Markus Eckert, head of Urethane Systems. Highlights of the business unit's exhibition stand will include a roller coaster car with extremely abrasion-resistant and dynamically resilient PU wheel coatings based on Adiprene LF pPDI as well as very hard-wearing, thermally stable and moisture-resistant star wheels based on Adiprene LF TDI for conveyor and separator systems in modern recycling facilities.

New flame retardants for insulating materials

The Polymer Additives business unit is one of the leading providers of products including bromine- and phosphorus-based flame retardants. It will be presenting two flame retardants for rigid polyisocyanurate (PIR) foam that have achieved exceptional results in fire tests in line with ISO 11925-2 ±the oligomeric Levagard DEP and the reactive Levagard 3:KDW SXWV WKHP DK other systems with similar flame-retardant effects is that they are ERWK YRODWLOH LI DW DOO DQG H[KLELW RQO\ PLQRU S explained Karsten Job, head of PLA. In Emerald Innovation 3000, meanwhile, LANXESS offers a polymeric brominated flame retardant for expanded polystyrene that makes a viable alternative to hexabromocyclododecane (HBCD), which is not approved for use in the EU.

Effectively protecting against ozo ne, reinforcing rubber and reflecting IR light

Antioxidants and antiozonants will be taking center stage for the Advanced Industrial Intermediates business unit at K. Vulkazon AFS is an antiozonant for latex, natural rubber and synthetic rubber that

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prevents cracking caused by the effects of ozone and does not lead to staining.

The Rhein Chemie business unit will be showcasing new aramid-fiber-reinforced masterbatches from the Rhenogran P91-40 series for manufacturing technical rubber goods, such as heat-resistant, durable and abrasion-resistant silicone items such as washers and seals.

The Inorganic Pigments business unit will be presenting a black pigment that reflects the infrared portion of sunlight 20 percent more effectively than conventional black pigments. Plastic roofs and facades offer a wealth of potential for use in reducing temperatures inside buildings.

Artificial intelligence in product development

LANXESS is aiming to make even better use of the benefits of digital technologies in the future: with digital business models, the introduction of new technologies throughout the value chain and the analysis and use of large amounts of data. The company is employing artificial intelligence (AI) to optimize formulations for glass-fiber sizings used to reinforce plastics. LANXESS is collaborating on this project with Citrine Informatics, an AI company based in Redwood City, California, U.S. Michael Zobel, head of HPM, H[SODLQHG ³:H ZDQW WR FXW WKH GHYHORSPHQW WLPH IRU formulations by more than half so that we can bring new, higher-SHUIRUPDQFH SURGXFWV WR PDUNHW PRUH TXLFNO\ ´

Circular economy with all partners in the value chain

LANXESS is committed to establishing closed-loop material cycles in the manufacture and application of plastics. The company is currently working with customers and their own buyers on initiating pilot SURMHFWV LQ WKH ILHOG $V =REHO H[SODLQHG ³6HWWLQJ that conserve resources in this way will work only if all partners in the

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value chain work together. One of our goals is to design plastics from WKH RXWVHW LQ VXFK D ZD\ WKDW WKH\ DUH HDV\ WR UHF\F

LANXESS is a leading specialty chemicals company with sales of EUR 7.2 billion in 2018. The company currently has about 15,500 employees in 33 countries and is represented at 60 production sites worldwide. The core business of LANXESS is the development, manufacturing and marketing of chemical intermediates, additives, specialty chemicals and plastics. LANXESS is listed in the leading sustainability indices Dow Jones Sustainability Index (DJSI World and Europe) and FTSE4Good.

Cologne, July 2, 2019
mfg/rei (2019-00047e)

Forward -Looking Statements
This company release contains certain forward-looking statements, including assumptions, opinions, expectations and views of the company or cited from third party sources. Various known and unknown risks, uncertainties and other factors could cause the actual results, financial position, development or performance of LANXESS AG to differ materially from the estimations expressed or implied herein. LANXESS AG does not guarantee that the assumptions underlying such forward-looking statements are free from errors nor does it accept any responsibility for the future accuracy of the opinions expressed in this presentation or the actual occurrence of the forecast developments. No representation or warranty (expressed or implied) is made as to, and no reliance should be placed on, any information, estimates, targets and opinions, contained herein, and no liability whatsoever is accepted as to any errors, omissions or misstatements contained herein, and accordingly, no representative of LANXESS AG or any of its affiliated companies or any of such person's officers, directors or employees accept any liability whatsoever arising directly or indirectly from the use of this document.

Information for editors:
All LANXESS news releases and their accompanying photos can be found at http://press.lanxess.com. Recent photos of the Board of Management and other LANXESS image material are available at http://photos.lanxess.com. TV footage can be found at http://globe360.net/broadcast.lanxess/.

You can find further information concerning LANXESS chemistry in our WebMagazine at http://webmagazine.lanxess.com.

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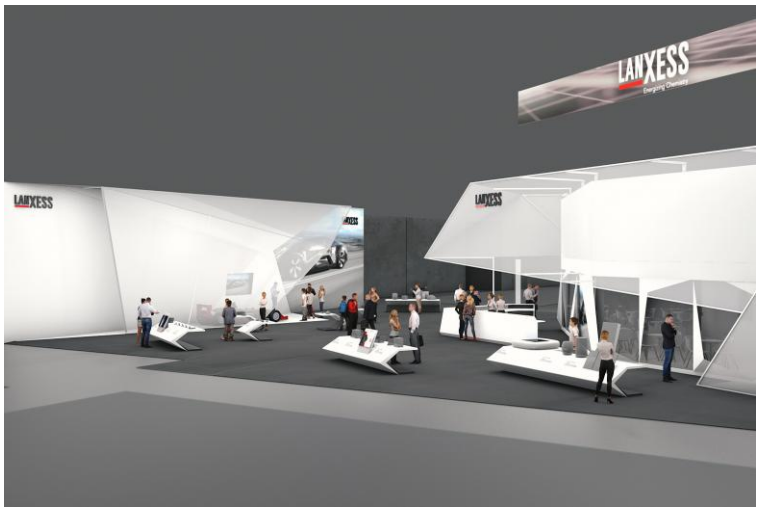
Image



LANXESS will be at international trade show K 2019 to showcase innovative solutions and its latest developments aimed at the megatrends of new mobility, urbanization and digitalization.
Photo: LANXESS AG

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