

Modular technology and proven products from LANXESS for the process industry

- **LANXESS at the leading global exhibition Achema, Frankfurt am Main, June 11-15, 2018**
- **Part “Process INDUSTRY 4.0: The Age of Modular Production” exhibition at booth D41 in hall 9.2**
- **Environmental award-winning plant an example of modular production**
- **LANXESS Distribution presents heat transfer fluid Diphyl at booth D100a in hall 5.1**

LANXESS AG

Contact:

Ilona Kawan

Corporate Communications

Spokesperson Trade & Technical

Press

50569 Cologne

Germany

Phone +49 221 8885-1684

ilona.kawan@lanxess.com

Page 1 of 5

Cologne – Specialty chemicals company LANXESS will be represented twice at Achema, which will take place in Frankfurt am Main from June 11 to 15, 2018. The company will showcase its innovative technology and proven products at the leading international exhibition for the process industry. As part of the special exhibition “Process INDUSTRY 4.0: The Age of Modular Production”, an initiative by Namur, Dechema/ProcessNet and the German Electrical and Electronic Manufacturers’ Association (ZVEI – Zentralverband Elektrotechnik- und Elektronikindustrie), an award-winning pilot facility for the resource-efficient manufacturing of leather chemicals will be presented. A model of the plant can be seen at the joint booth D41 in hall 9.2 as an example of the technical implementation of ideas in relation to modular automation.

By contrast, the Diphyl product range, tried and tested and in use in chemical processes worldwide for almost a century, will be presented at Achema at booth D100a in hall 5.1 by LANXESS Distribution GmbH. The synthetic heat transfer media ensure the secure operation of heat transfer systems.

Resource-efficient manufacturing of leather chemicals

Under the title of “Resource-efficient manufacturing of leather chemicals” (ReeL), the Leather business unit at LANXESS collaborated with the research institute INVITE from Leverkusen to develop a modular pilot facility for the production of retanning agents under the brand name “X-Biomer” from leather offcuts, trimmings and shavings, up until now generally a waste product for disposal, and plant-based biomass. The innovative, modular plant can be operated on-site in tanneries.

Practical testing has been taking place since the middle of 2017 at the project partner HELLER-LEDER GmbH & Co. KG in Hehlen, Lower Saxony, Germany. The project is receiving funding from the German Federal Ministry of Education and Research as part of its “r+Impuls – Innovative Technologien für Ressourceneffizienz – Impulse für industrielle Ressourceneffizienz” (r+Impulse – innovative technologies for resource efficiency – impetus for industrial resource efficiency) initiative.

LANXESS received the German Innovation Prize for Climate and Environment 2017 in the category “Environmentally friendly products and services” for this innovative technology for the recycling of residues in leather production.

Diphyl heat transfer fluid now with extended service

LANXESS Distribution GmbH, sales and distribution partner of the LANXESS Group for chemical intermediate products and specialties, presents itself to the process industry with its organic heat transfer fluids from the proven Diphyl brand. They offer unique thermostability and durability and can be used in a broad temperature range:

LANXESS AG

Contact:
Ilona Kawan
Corporate Communications
Spokesperson Trade & Technical
Press
50569 Cologne
Germany

Phone +49 221 8885-1684
ilona.kawan@lanxess.com

Page 2 of 5

Diphyl + 13 °C to + 400 °C
Diphyl KT - 45 °C to + 350 °C
Diphyl THT 0 °C to + 345 °C
Diphyl DT - 30 °C to + 330 °C

Dwell time in systems is over ten years on average for Diphyl due to its high thermal stability. As each organic heat transfer medium ages due to the high temperature load caused by gradual decomposition reactions, both the selection and maintenance of the heat transfer medium must be precisely tailored to the respective process and design of the plant. To provide support for the use of these technically challenging fluids, LANXESS offers comprehensive pre- and after-sales product service. This includes consultation during the plant planning phase, detailed product specifications, a program to determine key plant parameters, and analyses of heat transfer fluids used.

In the future, the data will be linked together in a predictive maintenance approach by the customer, in order to avoid critical plant conditions and to prevent damage such as corrosion, residue, decomposition of thermofluids on various plant components, such as on heaters, pumps, pipelines, condensers, or heat exchangers. The paradigm shift away from a “reactive” approach towards predictive maintenance will ensure that availability, costs, and proper functioning are optimally aligned.

LANXESS is a leading specialty chemicals company with sales of EUR 9.7 billion in 2017 and about 19,200 employees in 25 countries. The company is currently represented at 74 production sites worldwide. The core business of LANXESS is the development, manufacturing and marketing of chemical intermediates, additives, 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 Europe) and FTSE4Good.

Cologne, June 7, 2018
kaw (2018-00043e)

LANXESS AG

Contact:
Ilona Kawan
Corporate Communications
Spokesperson Trade & Technical
Press
50569 Cologne
Germany

Phone +49 221 8885-1684
ilona.kawan@lanxess.com

Page 3 of 5

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>.

Follow us on Twitter, Facebook, LinkedIn and YouTube:

<http://www.twitter.com/LANXESS>

<http://www.facebook.com/LANXESS>

<http://www.linkedin.com/company/lanxess>

<http://www.youtube.com/lanxess>

LANXESS AG

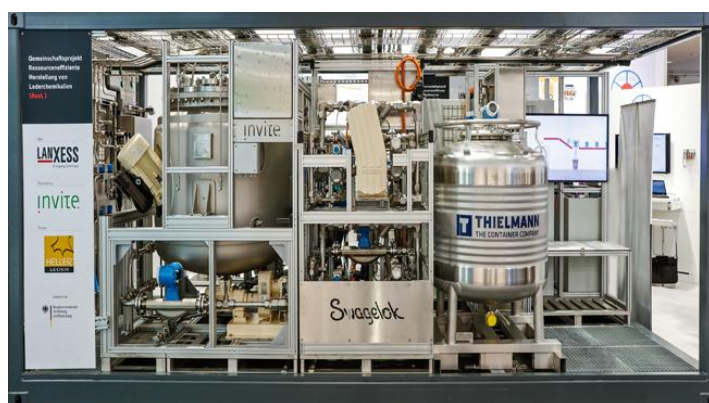
Contact:

Ilona Kawan
Corporate Communications
Spokesperson Trade & Technical
Press
50569 Cologne
Germany

Phone +49 221 8885-1684
ilona.kawan@lanxess.com

Page 4 of 5

Images



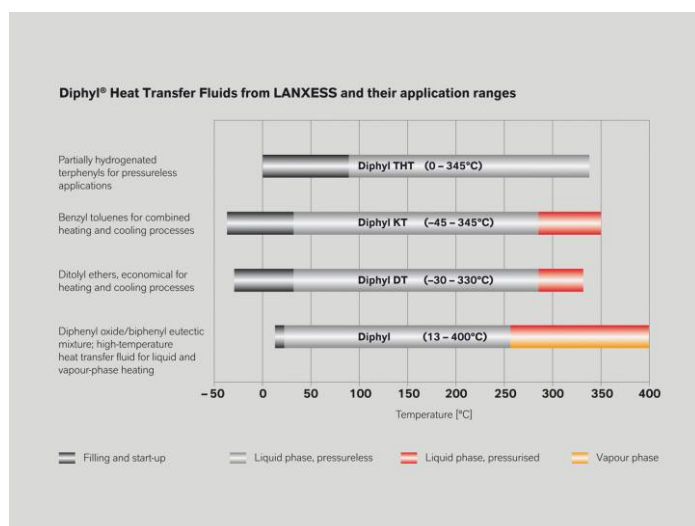
LANXESS AG

Contact:
Ilona Kawan
Corporate Communications
Spokesperson Trade & Technical
Press
50569 Cologne
Germany

Phone +49 221 8885-1684
ilona.kawan@lanxess.com

Page 5 of 5

A production plant for resource-efficient production of leather chemicals is debuting this year's Achema. The innovative system for recycling shavings in leather production is designed for use directly on-site at tanneries. Shavings and organic biomass are used to create "X-Biomer" brand retanning agents for manufacturing leather. Photo: LANXESS AG



Heat transfer fluids of the proven Diphyl brand from LANXESS are characterized by their unique thermostability and durability and can be used over a wide temperature range.

Photo: LANXESS AG