

New LUBIO® POLYKAT Series (Phospholeneoxides CAS Nr. 31563-86-7, 707-61-9) Plastics-Industry Catalysts Now Available

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Press release from: [Schäfer Additivsysteme GmbH](#)

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Schäfer Additivsysteme expands its award-winning catalyst series

Ludwigshafen, March 17, 2010 * Schäfer Additivsysteme GmbH has developed new LUBIO® Polykat series (CAS: 31563-86-7, 707-61-9) catalysts for use in the production of polyurethanes and carbodiimides. In addition to LUBIO® Polykat 1, which won an award for its outstanding catalytic properties from ISB, the Investment and Economic Development Bank of Rhineland-Palatinate, in 2006, LUBIO® Polykat 2, 3, 4 and 5 are now also available.

The phospholene oxide-based catalysts are distinctive regarding their reactivity and selectivity. They can be used to produce ultra high-purity carbodiimides for instance. The catalysts have been pre-registered in accordance with the new chemicals regulation and are produced on a 100-kilogram scale.

Catalysts lower the activation energy of chemical reactions by enhancing lower-energy transition states. They affect a reaction without changing its chemical equilibrium. Since catalysts do not undergo any permanent chemical changes during a reaction, only very small quantities need to be used. By changing the reaction conditions catalysts have a major effect on the rate of a chemical reaction.

“For us these new products represent a further milestone in the development of new additive systems,” says Dr. Volker Schäfer, managing director of Schäfer Additivsysteme GmbH.

The additives specialist based in Ludwigshafen, Germany, develops a large selection of additive systems for the production of plastics, rubber and lubricants. Its consulting services and solutions for the use of additives in applications are based on years of experience in the chemical industry. The company has received numerous innovation awards for its innovative products.

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