

News Release

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BASF increases capacity for Higher Carboxylic Acids

- **Isononanoic Acid (INA), 2-Ethylhexanoic Acid (2-EHA)**
- **Supporting customer growth with components for synthetic lubricants e.g. for the refrigeration industry**
- **Reliable and flexible HCA-production in Germany and Malaysia**

BASF has increased its global production capacity for the Higher Carboxylic Acids (HCA) Isononanoic Acid (INA) and 2-Ethylhexanoic Acid (2-EHA) from 55,000 metric tons to 68,000 metric tons per year. With world-scale and highly flexible production facilities at its Verbund sites in Ludwigshafen, Germany, and Kuantan, Malaysia, BASF is among the leading producers of HCA worldwide.

“We continue supporting our customers’ growing global demand for the high-quality chemical intermediates HCA. Our products are adding value in high-performance formulations for synthetic lubricants for example in the refrigeration industry,” said Dr. Andrea Frenzel, President, BASF Intermediates Division. “This expansion is the consequent next step to increase the availability of HCA at our regional Verbund sites. With this we are following our investment in 2-EHA in Kuantan from 2016, particularly for INA to complement our European production. With our flexible and reliable production and supply network for HCA we can respond quickly to the demand from the market.”

INA is used as a building block in several high-performance formulations. Examples for such formulations are synthetic refrigeration lubricants for air conditioners using more environmentally friendly refrigerant technologies to address sustainability

needs. Another example for the usage of INA are synthetic lubricants for the aviation industry. Furthermore, INA is used in many other applications such as pharma, cosmetics, agrochemicals and coatings.

2-EHA is also used as a building block in certain formulations in the production of plasticizers, PVC stabilizers, lubricants, cosmetics and drying additives for coatings.

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About BASF Intermediates

The BASF Group's Intermediates division develops, produces and markets a comprehensive portfolio of about 700 intermediates around the world. Its most important product groups include amines, diols, polyalcohols, acids and specialties. Intermediates are for example used as precursors for coatings, plastics, pharmaceuticals, textiles, detergents and crop protectants. Innovative intermediates from BASF help to improve both the properties of final products and the efficiency of production processes. The ISO 9001 certified Intermediates division operates plants at production sites in Europe, Asia and North America. Around the globe the division generated sales to third parties of about €3,1 billion in 2018. For more information, go to www.intermediates.basf.com

About BASF

At BASF, we create chemistry for a sustainable future. We combine economic success with environmental protection and social responsibility. The approximately 122,000 employees in the BASF Group work on contributing to the success of our customers in nearly all sectors and almost every country in the world. Our portfolio is organized into six segments: Chemicals, Materials, Industrial Solutions, Surface Technologies, Nutrition & Care and Agricultural Solutions. BASF generated sales of around €63 billion in 2018. BASF shares are traded on the stock exchange in Frankfurt (BAS) and as American Depositary Receipts (BASFY) in the U.S. Further information at www.basf.com.