



Joint News Release

BASF's SYNSPIRE® G1-110 catalyst enhances steam efficiency at Nan Ya Plastics Corp' 2-Ethylhexanol Plant, accelerating sustainable operations

- **Operation of the innovative SYNSPIRE G1-110 catalyst technology has materialized significant OPEX benefits**
- **The novel catalyst enables Nan Ya's site to reduce CO₂ emissions by 38,000 metric tons per year**

September 30, 2025 – In early 2024, Nan Ya Plastics Corporation (Nan Ya) installed BASF's SYNSPIRE G1-110 catalyst at its 2-Ethylhexanol (2-EH) Mailiao site. With the installation, Nan Ya Plastics has been able to reduce the annual steam consumption of the site by approximately 40,000 metric tons and has avoided 38,000 metric tons of CO₂ emissions.

The 2-EH site is part of Nan Ya's global network of facilities dedicated to producing high-performance 2-EH from n-butyraldehyde via condensation, hydrogenation, distillation and refinement. 2-EH is an important raw material for numerous downstream products.

BASF's SYNSPIRE catalyst G1-110 is a cutting-edge solution designed to reform methane and CO₂ under significantly dryer conditions than state-of-the-art steam methane reforming processes. The catalyst is engineered to maintain peak performance over prolonged operating cycles, owing to its outstanding resistance to carbon-induced deactivation. This allows customers to lower steam consumption while realizing high CO₂ uptake and conversion rates. This innovative approach is supporting the sustainable transformation of the chemical industry.

The efficient operations at the 2-EH site demonstrates Nan Ya commitment to reducing greenhouse gas emissions, utilizing sustainable feedstocks and achieving environmental benefits as a leading chemical manufacturer. The effective performance of SYNSPIRE G1-110 catalysts, combined with BASF's

technical expertise, catalytic innovation and collaborative spirit supports customers in achieving their goals.

About BASF's chemical catalysts and adsorbents

BASF is a leading global manufacturer of catalysts for the chemical industry, with solutions across the chemical value chain. The business comprises chemical catalysts, adsorbents and custom catalysts. Priority is given to developing new and improved products that enable the chemical industry transformation to net-zero emissions. To learn more, visit www.chemical-catalysts-and-adsorbents.basf.com.

About BASF

At BASF, we create chemistry for a sustainable future. Our ambition: We want to be the preferred chemical company to enable our customers' green transformation. We combine economic success with environmental protection and social responsibility. Around 112,000 employees in the BASF Group contribute to the success of our customers in nearly all sectors and almost every country in the world. Our portfolio comprises, as core businesses, the segments Chemicals, Materials, Industrial Solutions, and Nutrition & Care; our standalone businesses are bundled in the segments Surface Technologies and Agricultural Solutions. BASF generated sales of €65.3 billion in 2024. BASF shares are traded on the stock exchange in Frankfurt (BAS) and as American Depositary Receipts (BASFY) in the United States. Further information at www.basf.com.

About Nan Ya

Nan Ya Plastics Corporation, established in 1958, is a major subsidiary of Formosa Plastics Group. It is a leading manufacturer and supplier in the plastics industry, known for its diverse product portfolio and global presence. Nan Ya specializes in plastic processing, plastic raw materials, electronic materials, and polyester fibers. To learn more, visit www.npc.com.tw.

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