

# News Release

P035/26e  
March 9, 2026

## **BASF introduces BDO, THF, PolyTHF<sup>®</sup> and NMP product variants with reduced product carbon footprint (rPCF)**

- **Reduced product carbon footprint (rPCF)<sup>1</sup> achieved through low emission feedstocks and utilities**
- **Minimum 10 percent PCF reduction<sup>2</sup> compared to the corresponding BASF standard product with unchanged product performance**
- **Enables customers to lower emissions in their value chains without altering formulations or processes**

BASF's Intermediates division has introduced new product variants with a reduced product carbon footprint (rPCF) for butanediol (BDO), tetrahydrofuran (THF), polytetrahydrofuran (PolyTHF<sup>®</sup>), and N-methylpyrrolidone (NMP) produced at its Verbund site in Ludwigshafen, Germany. From this site, the products can be supplied to customers worldwide and help expand the division's new rPCF product category, which is currently under development.

The reduced product carbon footprint is achieved through low emission feedstocks and utilities at the Ludwigshafen site. As a result, the rPCF variants offer a lower

---

<sup>1</sup> The PCF calculation of the rPCF versions of BDO, THF, PolyTHF and NMP produced at the Ludwigshafen Verbund was conducted in accordance with ISO 14067:2018 and the [Together for Sustainability - The Product Carbon Footprint Guideline for the Chemical Industry, version 3.0 - December 2024](#). The PCF calculation is currently undergoing third-party certification by TÜV Rheinland.

<sup>2</sup> BASF's Intermediates division's rPCF products come with a reduction in PCF of at least 10 percent compared to the BASF standard product in the producing region. The PCF reduction is achieved through active measures, specifically the use of low emission feedstocks and low emission utilities. The calculation does not include downstream value chain emissions such as transportation emissions from factory gate to customer, emissions from further processing and end-of-life emissions.

carbon footprint of at least 10 percent compared to the corresponding standard products manufactured in Ludwigshafen.

### **Supporting customers' transformation toward lower-carbon materials**

By introducing rPCF variants for BDO, THF, PolyTHF and NMP, BASF expands its portfolio of intermediates with a reduced product carbon footprint and supports customers in taking another step in reducing their Scope 3 CO<sub>2</sub> emissions. Customers serving different segments like automotive, pharmaceuticals, electronics, textile and consumer goods can now benefit from raw materials with a reduced carbon footprint without the need to adapt existing formulations or production processes.

“Across industries, we see growing interest in cost competitive products with a reduced carbon footprint that help customers meet market demands and achieve their corporate sustainability targets,” says Verena Siegel, Vice President Global Business Management for Butanediol and Derivatives in BASF’s Intermediates division. “With our new rPCF variants, we are giving them a straightforward lever to achieve measurable PCF reductions of at least 10 percent, without adding complexity to their operations.”

### **Essential raw materials in many value chains**

BDO is used to produce PolyTHF and to manufacture THF and gamma-butyrolactone (GBL) for pharmaceutical applications. It is also a starting material for NMP and polybutylene terephthalate (PBT). BASF is a leading global producer of BDO and its derivatives, with two production plants and an annual capacity of 350,000 metric tons.

PolyTHF is mainly used to produce elastic spandex and elastane fibers for textiles such as swimwear, sportswear, underwear, shirts and stretch jeans. It also serves as a key building block for thermoplastic polyurethanes (TPU) used in abrasion resistant hoses, films and cable sheathing, especially for automotive applications. Other uses include polyetheresters, polyetheramides and cast elastomers, such as wheels for skateboards and inline skates. With three production plants in Europe, North America and Asia Pacific and a total capacity of 250,000 metric tons per year, BASF is one of the world’s leading suppliers of PolyTHF, which is a BASF brand in many countries.

NMP is an aprotic, highly polar organic solvent used across many industries. Its applications range from pharmaceutical production and the manufacture of specialized filtration membranes to the processing of lithium-ion batteries. It also plays a role in creating coatings, inks and resins, and is used in agricultural formulations as well as certain oil and gas extraction processes.

### **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 108,000 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 around €60 billion in 2025. 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](http://www.basf.com).