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**Our Expertise  
Your Success**

**CABB**  
YOUR PARTNER IN FINE CHEMISTRY



## CABB – Your Partner in Fine Chemistry

The CABB Group is a leading contract development and manufacturing company (CDMO) for starting materials, active ingredients, and advanced intermediates. The CABB Group specializes in the production of customized, highly complex molecules for leading companies, particularly in crop sciences, life sciences, and performance materials industry.

With 1,200 employees and six production sites in Europe (Switzerland: Pratteln, Germany: Knapsack and Gersthofen, Finland: Kokkola), Asia (China: Jining) and the US (Galena), we generated in 2022 an annual turnover of more than 755 million euros.

### Premier Contract Development and Manufacturing Company

The CABB Group has a strong focus on high-purity products based on multistep chemical synthesis. With its custom manufacturing services, the CABB Group works closely with customers to develop and optimize individual steps in their value chain for the synthesis of agrochemicals, pharmaceuticals, and other complex and – in most cases – patented chemical products.

Thanks to its unique transatlantic production network with state-of-the-art manufacturing facilities, the CABB Group

is an integral part of its customers' value chains. Customers benefit from its proven track record of securing and delivering large-scale growth projects in crop sciences and life sciences – resulting in trusted and long-lasting partnerships.

### Expertise in Crop Sciences, Life Sciences, and Performance Materials

The CABB Group has been manufacturing intermediates and active ingredients for leading agricultural players for decades. When it comes to life sciences, its building blocks, derivatives, and advanced intermediates are used in the pharmaceutical industry, in personal care products and nutrition such as flavors. Within the performance materials segment, the CABB Group's fine chemicals are vital for high-tech applications in electronics, supporting megatrends in mobility and mobile communications.

### Committed to Continuous Improvement and Superior ESG Standards

The CABB Group's leading production competence is based on its "Verbund System." These integrated production sites are its platform for providing differentiated, large-scale products based on high process efficiency including recycling of by-products. The CABB Group has underlined its sustainability commitment by signing the UN Global Compact and Responsible Care. CABB is also a member of Together for Sustainability (TfS).

# Our CDMO Expertise

The CABB Group specializes in complex, multi-step chemical syntheses. Our unique expertise in fine chemicals, our ability to implement large-scale growth projects and the integration of cutting-edge technology are the basis for our success. Designing, implementing and enhancing safe and robust production processes is our top priority.

The CABB Group is ideally equipped to perform demanding multistep syntheses of intermediates and active ingredients, and its plants and infrastructure enable efficient and sustainable production. Our capabilities include a vast range of chemical reactions based on our core chemistries to support efficient manufacturing on a large scale.

## Core Chemistries and Routine Operations

- Chlorination ( $\text{Cl}_2$ ,  $\text{SOCl}_2$ ,  $\text{SO}_2\text{Cl}_2$ ,  $\text{HCl}$ , ...)
- Bromination ( $\text{Br}_2$ ,  $\text{HBr}$ , ...)
- Sulphonation ( $\text{SO}_3$ ,  $\text{HSO}_3\text{Cl}$ ,  $\text{H}_2\text{SO}_4$ , ...)
- Sulphochlorination ( $\text{HSO}_3\text{Cl}$ , ...)
- Alkylation (methylation, thioalkylation, chloromethylation, ...)
- Oxidation ( $\text{Cl}_2$ ,  $\text{H}_2\text{O}_2$ ,  $\text{HNO}_3$ , ...)
- Reduction ( $\text{Pd}/\text{H}_2$ ,  $\text{Pt}/\text{H}_2$ ,  $\text{NaBH}_4$ , Wolff-Kishner, ...)
- Lithiation ( $n\text{-BuLi}$ ,  $\text{LDA}$ , ...)
- Grignard reaction ( $\text{RMgX}$ )
- C-C Cross-coupling (Suzuki, ...)
- Friedel-Crafts Acylation ( $\text{AlCl}_3$ ,  $\text{FeCl}_3$ )
- Esterification/Saponification
- Amidation ( $\text{NH}_3$  (g),  $\text{NH}_3$  (aq),  $\text{NH}_2\text{R}$ , ...)

## Assets and Capabilities

- More than 100 reactors group-wide, from  $2\text{ m}^3$  to  $35\text{ m}^3$  (total reactor capacity above  $1300\text{ m}^3$ )
- Various materials used in production assets: Hastelloy, glass-lined, stainless steel, etc.
- Several multi-stage distillation columns, solvent recovery capabilities and wastewater treatment
- Solid isolation capabilities with multiple centrifuges, dryers, filters and packing units
- Raw material handling for acetaldehyde, epichlorohydrine, hydrazine hydrate, methyl chloride, solid sodium, etc.

## EcoVadis Rating



The majority of the CABB Group sites undergo annual assessments by EcoVadis, the world's largest provider of sustainability ratings. In the latest assessment conducted in 2022, CABB's site in Pratteln, Switzerland, was awarded the gold rating for the fourth time in a row. In 2022, the production sites in Germany and China were awarded the gold rating for the first time; in 2021, they had already received a silver rating. At the end of 2022, the production site in Kokkola, Finland, even achieved a platinum rating for its assessment. Platinum is the highest rating issued by EcoVadis. As part of the assessments, EcoVadis provides valuable input on areas in which the CABB Group can continue to further improve.

## Your Benefits

### Expertise

Focused on complex, multi-step chemical synthesis

### Network

Unique transatlantic production footprint with a strong foothold in Europe

### Capabilities

Technology leader with state-of-the-art production facilities and a focus on (ultra) high-purity products

### Project Management

Proven track record of securing and delivering large-scale growth projects in agrochemicals and specialties

### Sustainability

Committed to continuous improvement and superior ESG standards





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## LEGAL INFORMATION

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