



## Phosgenation @ Saltigo Customized. Efficient. Safe.

- Decades of experience in phosgene chemistry
- Full project support – from lab development to large-scale production
- Strong focus on process safety and reliability

### Capabilities & Infrastructure:

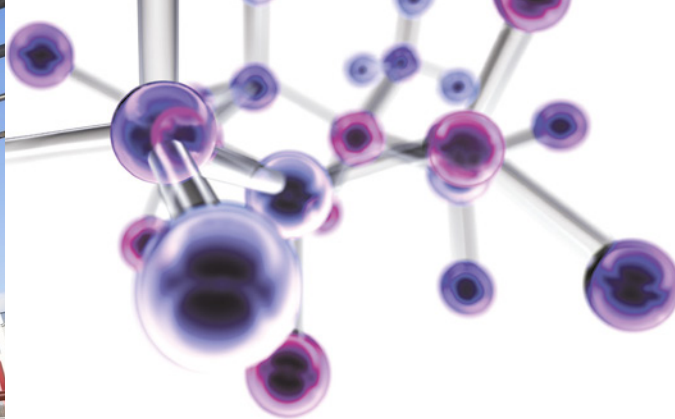
- Dedicated phosgenation lab (0.5–10 L reactors)
- Seamless scale-up to industrial units (Dormagen site)
- In-house phosgene production for reliable supply
- Key intermediates: chloroformates, acid chlorides, ureas, isocyanates, carbonates

### Integrated Downstream Options:

- Alkylation, reductions & organometallic transformations and many more

### Safe Product Handling:

- Dedicated filling stations
- Closed transfer systems
- On-site storage facilities



## Technology Excellence at Saltigo Tailored chemistry. Scalable solutions. Proven performance.

Saltigo offers a comprehensive technology portfolio for demanding custom manufacturing projects – from lab development to full-scale production.

Our core competencies include advanced processes such as: Flow chemistry for safe, scalable continuous production, metathesis using different types of catalysts, high-pressure hydrogenation with green hydrogen, phosgenation, including in-house phosgene generation, chlorination, fluorination, and nitration. We also support complex multi-step syntheses, including organometallic transformations, reductions, and alkylations — all handled in state-of-the-art facilities with robust safety systems and integrated downstream processing. Operating from our sites in Leverkusen and Dormagen, Saltigo combines outstanding infrastructure, a strong safety culture, and decades of experience to deliver sustainable, high-performance solutions for many industries.

Saltigo – Your custom manufacturing partner, bringing projects to life with advanced technologies.

**Contact for business in the USA**  
LANXESS Corporation  
Saltigo  
111 RIDC Park West Drive  
Pittsburgh, PA 15275-1112  
USA

**Contact for business in the EU**  
Saltigo GmbH  
Chempark Leverkusen  
Kaiser-Wilhelm-Allee 40  
51369 Leverkusen  
Germany

For more information and inquiries regarding our Fine Chemical Intermediates please contact  
[fci@saltigo.com](mailto:fci@saltigo.com)  
[info@saltigo.com](mailto:info@saltigo.com)



[www.saltigo.com](http://www.saltigo.com)

This information and our technical advice – whether verbal, in writing or by way of trials – is subject to change without notice and given in good faith but without warranty or guarantee, express or implied, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to verify the information currently provided – especially that contained in our safety data and technical information sheets – and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with the current version of our General Conditions of Sale and Delivery.

©2025 LANXESS.

SALTIGO, CUSTOMIZED COMPETENCE, LANXESS and the LANXESS Logo are trademarks of LANXESS Deutschland GmbH or its affiliates. The trademarks may be registered in many countries in the world.

More about technologies @ Saltigo:



A company of the  
**LANXESS**  
Group

**saltigo**  
customized competence

**saltigo**  
customized competence



### Advanced Metathesis Meets High-End Downstream Chemistry

Saltigo combines cutting-edge metathesis technology with advanced downstream capabilities to deliver high-efficient, high-selective solutions — ideal for complex chemical syntheses.

With expertise in Grubbs and Schrock catalysts, we tailor each process for optimal performance. While Grubbs systems offer cost advantages, Schrock catalysts provide superior selectivity and product quality.

Our technology ensures precise reaction control and safe ethylene off-gas handling, supported by oxygen monitoring and an innovative charge system for catalysts— scalable up to 12 m<sup>3</sup>.

We also enable bio-based production via metathesis of renewable feedstocks, supporting sustainable synthesis of specialty chemicals, such as pheromones.



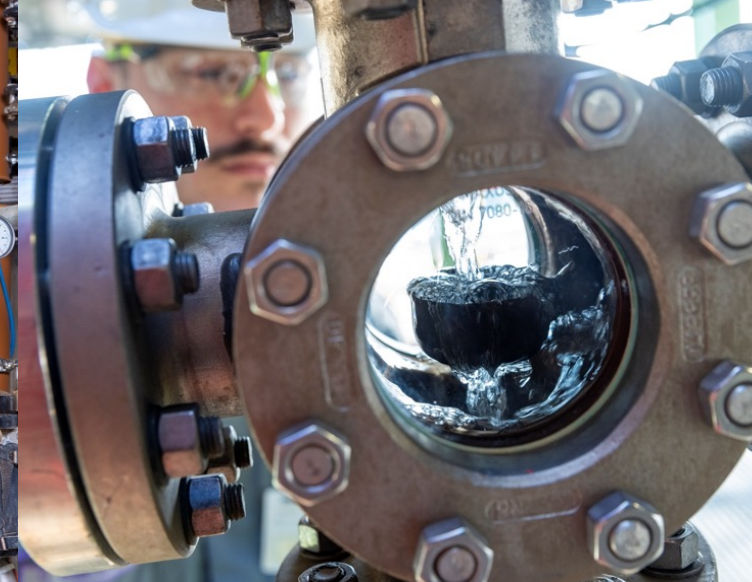
### Flow Chemistry @ Saltigo Innovation, Efficiency, and Sustainability

With over 25 years of experience, Saltigo is a trusted partner in flow chemistry, offering innovative solutions for complex chemical transformations. We've developed 20+ continuous processes, with several scaled to mini-plant or pilot production.

Flow chemistry offers key advantages over batch production:

- Process intensification with smaller reactor volumes
- Superior thermal control for safer operation under extreme conditions
- Higher selectivity and yields through precise reaction control
- Sustainability via reduced waste and solvent use
- Consistent quality and scalability with steady-state production

Our experience ranges from cryogenic reactions and high-pressure processes to continuous nitration and carbohydrate pyrolysis, all supported by cutting-edge automation and in-house engineering.



### High Pressure Hydrogenation @ Saltigo From lab-scale to industrial-scale production

At Saltigo, we offer cutting-edge facilities and decades of know-how to support the development and scale-up of high-pressure hydrogenation processes.

Our state-of-the-art lab enables safe, flexible process development up to kilo scale:

- Autoclaves up to 5 L for batch or continuous mode
- Operation at up to 400 bar and 300°C
- Lab campaigns with outputs up to 10 kg

Our dedicated hydrogenation units ensure efficient, scalable, and sustainable production — including the use of green hydrogen:

- Batch production lines up to 320°C and 200 bar H<sub>2</sub>
- Continuous hybrid line up to 230°C and 200 bar H<sub>2</sub>
- Integrated distillation units for downstream processing