

CHIMIA REPORT/COMPANY NEWS

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Companies present themselves and their products

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VALSYNTHESE, YOUR SERVICE PREMIUM PARTNER IN CDMO FIELD

Valsynthese, part of SSE Group, is a Swiss CDMO based in the middle of the Alps. Our core capabilities are focused on high energetic and highly hazardous chemistry. The reaction capabilities include nitration, phosgenation, hydrogenation together with a broad range of classical organic chemical reactions.

Nitration

Nitration technology belongs to the DNA of Valsynthese. It all began in 1894 when SSE started to produce civil explosives for the construction of the Simplon tunnel which is a strategic axis between Switzerland and Italy. Since that time, nitration is the core expertise of SSE and Valsynthese. The operational fit between the traditional explosive business and fine chemical activities has given rise to Valsynthese and allows us to manipulate this energetic chemistry from early phase development to industrial production. This deep expertise and knowledge on nitration are used for the benefit of our customers in ISO and cGMP environments.



Hydrogenation

Valsynthese, being a key player for nitration (*vide supra*), can easily deliver suitable products for hydrogenation. This obvious match has given rise to the so-called "Erebus" project. Indeed, in 2019, Valsynthese has announced an important investment plan for the next 3 to 5 years with main focus on hydrogenation. This investment plan (> 10 millions USD) allows Valsynthese to perform hydrogenation at Kilo-Lab, Pilot and Production scale both in ISO and cGMP-environment, respectively. The kilo-Lab and Pilot plant are already operational (up to 25 bar). The production level is foreseen for Q3/2023 (4000 L reactor, up to 25 bar). With this new technology in place, Valsynthese strongly consolidates its hazardous chemistry portfolio and enters in a new strategic development.

Phosgenation

The technological capabilities of Valsynthese were extended to phosgenation in 2013 (4500 L reactor). In the last three to four years, phosgene was involved in the synthesis of APIs, fungicides

and polymers, just to mention some examples. This complexity in terms of applications is reflected in Valsynthese customer manufacturing experience. Valsynthese current focus is the production of isocyanates starting from amines (aliphatics or aromatics). Nevertheless, there is a vast number of applications that require custom-made isocyanates, sometimes also produced under cGMP conditions. This is where Valsynthese really differentiates itself from other phosgene-using companies.

Corrosive chemistry

In addition to nitration, hydrogenation and phosgenation, Valsynthese is also very active in chemistry involving corrosive reagents such as thionyl chloride, oxalyl chloride or HCl to mention a few. To perform such chemistry, dedicated equipment is available on our Valsy and phosgenation production plants. Companies involved in the field of fragrances and agro often approach us for this particular type of chemistry.

Certifications

During the years Valsynthese implemented an integrated management system with the capabilities of producing high quality intermediates and APIs under GMP and ISO 9001 certification. Our management system is further certified according to ISO 14001 and ISO 45001, which integrates environment, health- and safety aspects in our daily business.

Services

At Valsynthese we offer the *full range of services* to make chemical dreams from gram to ton-scale come true: sourcing, samples, chemical development, analytical development and support, pilot production, commercial production, and registration.

Regular and accurate scientific reporting, close integration of customer feedback during development, and our customer-oriented approach during production make it a *unique and exciting* outsourcing experience.

Valsynthese's flexibility together with the managing of all stages on a professional level, allow us to be a high premium CDMO provider able to deliver quality and safety services and products.

Contact

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