

EXPERTISE AND QUALITY

- Long tradition and experience with special technologies (Phosgenation, Hydrogenation, Nitration)
- Synthesia is an owner of the Research Institute for Organic Syntheses (VUOS)
- GMP production of pharmaceutical active substances

FLEXIBILITY

CUSTOMER SERVICE

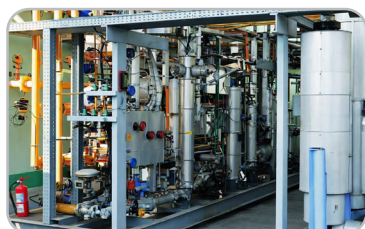


SYNTHESIA STRATEGIC BUSINESS UNIT

Synthesia, a.s. – Strategic Business Unit Organic Chemistry is the biggest Czech producer of organic compounds, having a strong position in the area of advanced organic intermediates. A major part of its production volume is intended for export to advanced European markets or overseas markets. Currently SBU Organic Chemistry delivers its products to customers in more than 40 countries worldwide. Key customers of SBU Organics include mainly companies who are active in the plastics industry, in agriculture, pharmaceutical concerns, dyestuffs producers, armament companies, cosmetic producers, etc.

Expertise, quality, flexibility and customer service are core values for our successful business. Research and development in this area is provided by a specialized research team from a Synthesia's subsidiary, Research Institute for Organic Syntheses, Inc. (VUOS). We are ISO 9001:2009, EN ISO 14001:2005, OHSAS ISO 18001:2008 certified. Part of the production is a subject to GMP and is regularly audited by the FDA.

Our business activities are targeted at these market segments:



CUSTOM SYNTHESSES

With extensive experience in specialty chemical production, Synthesia is able to address even highly specific and non-standard requirements. We offer a broad portfolio of technologies and their combinations, including nitration, hydrogenation, and phosgenation. We currently supply 24 products to customers across Europe and the United States.



PHARMACY

Our pharmaceutical production builds on nearly 60 years of tradition. Active pharmaceutical ingredients are further used in the manufacture of finished dosage forms for a wide range of applications. Our modern production facilities meet even the most demanding quality standards, and our products are trusted by customers in more than 30 countries worldwide.



INTERMEDIATES

The Intermediates segment focuses on the production of raw materials for advanced products, particularly dyes, pharmaceutical substances, plastics, and agrochemicals. We continuously invest in the modernization of our research and technological capabilities to deliver truly advanced products and services.



PESTICIDES

SBU Organic Chemistry produces pesticides in the form of both technical materials and final formulations. Our high-quality products and experienced team build on long-term know-how and more than 40 years of tradition. We continuously expand our business activities and cooperate with leading European manufacturers and distributors of crop protection products.

INTERMEDIATES

Product description and Application

The organic intermediates segment was developed in the 1950s to provide a raw material base for the production of advanced products, primarily dyes and pharmaceutical substances. With the growth of the plastics industry, Synthesia has invested in modern technologies and equipment for phosgene processing, particularly for polymerization applications. In connection with this segment, we continuously develop our research and technological capabilities to deliver truly advanced products and services.

Our production portfolio is based on core technologies such as nitration, hydrogenation, and phosgenation. An integral part of our manufacturing processes also includes sulfation and chlorosulfonation, as well as condensation.

Sub-division of the organic intermediates portfolio



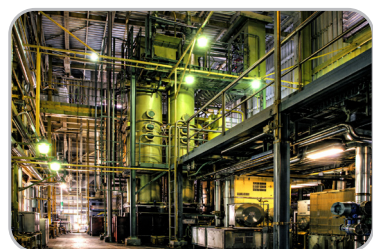
INTERMEDIATES FOR GUNPOWDER PRODUCTION

We are a traditional manufacturer of gunpowder stabilizers based on organic ureas, one of the outputs of our phosgene processes. Our products are used by manufacturers supplying the military, hunting, and sports markets.



INTERMEDIATES FOR PHARMACEUTICAL INGREDIENTS

Our portfolio includes isophthalic acid derivatives used in X-ray contrast agents. We also offer various advanced intermediates intended for GMP-compliant production.



INTERMEDIATES FOR PHOSGENATION

We produce phosgene in both liquid and gaseous forms. Upon request, we can also supply various nitro compounds and amines for manufacturers serving the plastics, pharmaceutical, agrochemical, and adhesive sectors.



INTERMEDIATES FOR POLYMERIZATION

We are a manufacturer of aromatic isocyanates used in the preparation of anti-hydrolysis agents for polymerization. These products help stabilize polymers such as PET, PU, TPU, PA, and others in the plastics industry.

Our partners benefit from

- **Many years of experience in the field of special technologies**
Nitration with 98 % HNO_3
Hydrogenation
Phosgenation
- **In-house phosgene production**
- **Variability of production equipment for the quick launch of new project**
- **Production capacity suitable for projects from 10 mT**

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