

News Release



“Pharma Solutions from BASF”

BASF at the CPhI Worldwide in Paris

➤ Globally most important pharmaceuticals trade fair

At the “Convention on Pharmaceuticals Ingredients” (CPhI Worldwide) taking place in Paris from October 3 to 5, BASF will showcase its comprehensive expertise in supporting customers in the pharmaceutical industry. The company will be presented to visitors of Booth 6D06, in Hall 6 under the heading "Pharma Solutions from BASF." The 1,500 exhibitors at the CPhI Worldwide expect more than 21,000 visitors from more than 110 countries. This event is the world's most important trade fair for manufacturers of pharmaceuticals and fine chemicals.

BASF will be presenting solutions for almost every area in the manufacture of pharmaceuticals. The company produces and markets a broad range of active ingredients and excipients, as well as exclusive synthesis services for the pharmaceutical industry. These products are made using the latest technologies, to the highest quality standards and in compliance with cGMP guidelines.

Custom synthesis: innovation through experience

Carrying out confidential and exclusive work on behalf of pharmaceutical companies, BASF produces customized active

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Visit us at the CPhI in Paris
in hall 6, booth 6D06
October 03.-05, 2006
Parc De L'Exposition
Paris-Nord, Villepinte, France

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ingredients and intermediate products. BASF experts accompany the entire life cycle – from analysis to registration, from the kilo laboratory through to manufacture on the industrial scale, from the early development phase and market launch to beyond the expiry of the patent. Throughout, BASF uses its unique chemical know-how as well as a broad portfolio of basic technologies and differentiation technologies. This includes, for example, phosgene and azide chemistry, asymmetric hydrogenation and low-temperature reactions. In a total of about 600 cubic meters of flexible multiproduct reactors, all the essential processes can be carried out under cGMP conditions.

In taking over the Swiss fine chemicals company Orgamol S.A. in 2005, BASF was purposefully expanding its activities in the field of custom synthesis. Owing to the increase in expertise and additional production sites, it is now able to offer even more comprehensive custom synthesis services. BASF is now one of the world's leading companies in this field.

Better drugs thanks to highly functional pharmaceutical excipients

BASF excipients ensure that active pharmaceutical ingredients are absorbed efficiently by the body and are easy to process during production of finished dosage forms. The product range comprises binders and disintegrants from the Kollidon[®] family, Kollicoat[®] coating polymers and a number of other functionalities like, for example, solubilizers. At CPhI 2006, BASF will be presenting Kollidon CL-F and Kollidon CL-SF, two new tablet disintegrants that are particularly suited to the manufacture of very small tablets and tablets that dissolve in the mouth. The new disintegrants ensure that the tablets disintegrate quickly and thereby increase the bioavailability of active pharmaceutical ingredients.

Produce drugs reliably with active ingredients from BASF

BASF offers active pharmaceutical ingredients for a number of therapeutic applications and is the world market leader in caffeine, ibuprofen and pseudoephedrine. Product properties, including processability of the active ingredients, are constantly being developed further. For example, BASF has covered the active ingredient in the new Ibuprofen DC 85 with a protective particle film. This ensures a more robust formulation during subsequent processing, simplifies production and thus helps to save costs.

Customized intermediates and comprehensive service

By developing new molecules tailor-made to meet specific customer needs, BASF can support its customers' projects from lab scale to industrial scale. BASF has access to the world's most extensive range of chemical intermediates. Key representatives of the more than 600 products include amines, diols, polyalcohols and acids.

The brand name ChiPros[®] represents BASF's broad and growing range of chiral amines, alcohols, epoxides and acids. The major market for these products is the pharmaceutical industry, which uses them in complex processes to make new pharmaceuticals. Chiral molecules are found as two varieties that mirror each other: A small difference that has a great impact on the effectiveness of medical drugs. The advantage of structurally pure substances is that they make the products more efficient, enabling doctors to prescribe drugs with less side effects. BASF also has one of the most extensive technology platforms for manufacturing achiral specialties for the chemical and life science industries. The product range includes specialty amines and heterocyclics.

BASF also has a broad range of ionic liquids, marketed under the brand name Basionic™. The company supplies each of the more than 20 different products on an industrial scale. BASF develops customized products and processes making use of the benefits ionic liquids offer. By their properties ionic liquids from BASF can open up entirely new fields of application, even outside the classical chemical uses. For example, ionic liquids might serve as cleaning agents or as engineering liquids used in the mechanical and automotive industries, but also in oil and gas production.

Flexible and reliable: top quality standard intermediates for the pharmaceutical industry

BASF has a broad portfolio of standard intermediates to meet its pharmaceutical industry customers' requirements for top quality products. BASF manufactures products such as tetrahydrofuran (THF), N-methylpyrrolidone (NMP) and gamma-butyrolactone (GBL) in the top-quality grades required for sensitive pharmaceutical production processes.

BASF is the world's only supplier of highly purified tetrahydrofuran (THF) with an extremely low residual water content not exceeding 0.01 percent. The high purity of this intermediate, which is used as a solvent, is important in the manufacture of pharmaceuticals, because: the purer the starting materials, the lower the risk of side effects. Anhydrous THF is ideal for use in complex water-sensitive reactions such as are common in the manufacture of active pharmaceutical ingredients. Manufacture is based on metal-organic compounds which would disintegrate on contact with water (Grignard reagents, for example).

A global network of production sites gives BASF maximum flexibility in the supply of standard intermediates. BASF supports its customers'

growth at every market level and offers a high degree of supplier reliability.

From lab to launch: Inorganic specialties help customers to be more successful

BASF offers its customers an extensive portfolio of inorganic chemicals with a strong focus on reagents for organic synthesis, including alkali metals used for reductions, alcoholates used as strong bases and catalysts, boron trifluoride and a wide range of liquid boron trifluoride complexes used as lewis acid catalysts, borane chemicals used for highly selective reductions and hydroborations, new boron products that support the rapidly growing chemistry technology known as Suzuki coupling, as well as hydroxylamine and its derivatives which are used for organic synthesis.

Driven by customers' needs BASF continuously works on the expansion of its inorganic specialties portfolio and represents innovative solutions targeted at pharmaceutical as well as contract research and contract manufacturing companies. Recent examples of new product launches include hydroxylamine-O-sulfonic acid, a versatile aminating agent, and O-benzylhydroxylamine hydrochloride as well as new reagents to make boron enolates like dicyclohexylchloroborane (DCBCl) and dibutylboron triflate (DBBT).

BASF also provides regulatory support and pharmaceutical development services. BASF has the facilities to offer full analytical support and to generate all the relevant safety and toxicology parameters. The services the company offers thus help its customers to be more successful.

BASF

BASF is the world's leading chemical company: The Chemical Company. Its portfolio ranges from chemicals, plastics, performance products, agricultural products and fine chemicals to crude oil and natural gas. As a reliable partner to virtually all industries, BASF's intelligent system solutions and high-value products help its customers to be more successful. BASF develops new technologies and uses them to open up additional market opportunities. It combines economic success with environmental protection and social responsibility, thus contributing to a better future. BASF has approximately 94,000 employees and posted sales of more than €42.7 billion (approximately \$50.4 billion) in 2005. Further information on BASF is available on the Internet at www.basf.com.