

# **Corporate Overview**

METALS • INORGANICS • ORGANOMETALLICS • CATALYSTS • LIGANDS • NANOMATERIALS • CUSTOM SYNTHESIS • cGMP FACILITIES



Corporate Headquarters, Newburyport, MA USA

Wide range of products

cGMP kilo-lab manufacturing suites

#### **Corporate Overview**

Strem Chemicals, Inc., established in 1964, is an employee-owned company that manufactures and markets specialty chemicals of high purity. Its clients include academic, industrial and government research and development laboratories as well as commercial scale businesses in the pharmaceutical, microelectronics, chemical and petrochemical industries.

Strem's corporate headquarters is located in Newburyport, 38 miles (60km) north of Boston. This facility occupies 48,000 sq. ft. (4,460 m²). The European headquarters and warehouse are located in Bischheim, France.

## **Experience in Manufacturing High Quality Chemicals**

A wide variety of fine chemicals are available with a special emphasis on organometallics, catalysts, ligands and nanomaterials. Quality is the most critical component of all products and services. Most products are of high purity, typically at 99%, while some are as high as 99.9999% metals purity.

## **Custom Synthesis and cGMP Production**

Custom synthesis services and process development are conducted under the strictest confidence. The variety of products manufactured for Strem's catalog of chemicals for research provides access to a wide span of technical expertise, in both inorganic and organic synthesis. Reaction capabilities for custom synthesis include:

Alkylation
Amination
Ammonolysis
Asymmetric synthesis

Carbonylation

Carboxylation
Chiral chemistry
Dehydrogenation
Formylation

Friedal-Crafts reactions

Grignard reactions
High Pressure reactions
Hydroformylation
Hydrogenation
Liquid ammonia reactions

Organometallic reactions
Phosphorylation
Quaternization
Reduction, Catalytic

For pharmaceutical applications, manufacturing is conducted under current Good Manufacturing Practices (cGMP) in kilo-lab suites. This capability has been available since 1988. Complete documentation is provided, including validation and stability studies. Active Drug Master Files (DMF's) are also maintained in North America and Europe. Strem's cGMP facilities are FDA inspected.



ChemStewards® Strem Chemicals is a member of SOCMA (Society of Chemical Manufacturers & Affiliates) and is committed to the ChemStewards® program.

Strem Chemicals, Inc.

7 Mulliken Way Newburyport, MA 01950 U.S.A

Tel: 978.499.1600 Fax: 978.465.3104 Email: info@strem.com Strem Chemicals, Inc.

15, rue de l'Atome Zone Industrielle 67800 BISCHHEIM France Tel: (33) 03 88 62 52 60 Fax: (33) 03 88 62 26 81 Email: info.europe@strem.com Strem Chemicals, Inc.

Postfach 1215 77672 KEHL Germany Tel: 0 78 51/ 7 58 79

Email: info.europe@strem.com

Strem Chemicals UK Ltd.

An Independent Distributor of Strem Chemicals Products Newton Hall, Town Street Newton, Cambridge

ISO 9001 CERTIFIED

Newton, Cambridge England CB22 7ZE Tel: +44 (0)1223 873 028

Fax: +44 (0)1223 870 207 Email: enquiries@strem.co.uk



## **Catalog of Chemicals for Research**

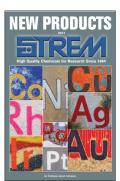
Strem has established its reputation through its ability to provide over 5,000 specialty chemicals of high purity to the research community. This is done through a catalog that is updated every 18 - 24 months. A complete up-to-date listing of products can be found on our website. Strem's product range includes:

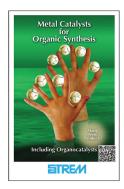
Biocatalysts
Catalysts & chiral catalysts
Electronic grade chemicals
Fullerenes
High purity inorganics & alkali metals

Ionic liquids Ligands & chiral ligands Metal acetates & carbonates Metal alkoxides & beta-diketonates Metal alkyls & alkyl amides
Metal carbonyls & derivatives
Metal foils, wires, powders & elements
Metal halides & hydrides
Metal oxides, nitrates & chalcogenides
Metal Scavengers
Metallocenes
Nanomaterials
Organocatalysts

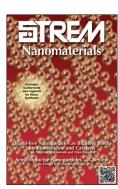
Organofluorines
Organometallics
Organophosphines & arsines
Porphines & phthalocyanines
Precious metals & rare earth chemicals
Stainless steel bubblers for CVD/ALD
Volatile precursors for MOCVD, CVD & ALD

Key product lines include metal carbonyls, metal catalysts for organic synthesis, ligands, especially phosphines, nanomaterials, Metal Organic Chemical Vapor Deposition (MOCVD) and Atomic Layer Deposition (ALD) precursors. Many products are available on a bulk basis.













# **Rapid Customer Service**

Strem maintains a large on-hand inventory to ensure that most catalog orders are fulfilled on the same day they are received. Technical service is provided with the same enthusiasm and speed to ensure that customers have the chemicals and information they need.

# **New Products and Proprietary Technologies**

Strem has a history of collaborating with academic scientists which has led to the introduction of new products. Industrial partnerships have also resulted in the establishment of proprietary technologies and facilitated their commercialization.



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