



TOSOH

Tosoh Finechem Corporation

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# TOSOH FINECHEM

## CORPORATE PROFILE

# The Power of Chemistry for a Brighter Future

Tosoh Finechem Corporation is a fine chemical manufacturer that aims to create new technologies and products in the fields of polymerization catalysts, electronic materials, and pharmaceutical intermediates, based on our strategic position in halogenated chemistry and organometallic chemistries.

As a comprehensive chemical manufacturer, we have a wide variety of derivatives and create high value-added products containing halogens based on chlorine and bromine, which are manufactured from Tosoh's fully-integrated "vinyl isocyanate chain". In addition, organic aluminums such as alkyl aluminum and aluminoxane are essential chemical products as polymerization cocatalysts for polyolefins and synthetic rubber.

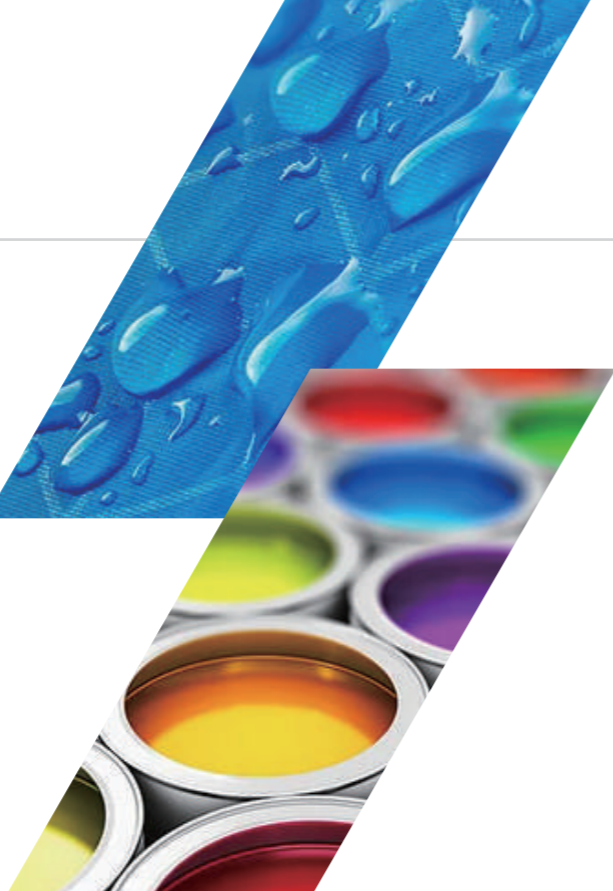
Tosoh Finechem's wish is to continue to be a reliable company by responding to each customer's voice. To this end, we are working hard to create high-quality products and build a seamless production and sales system, all toward a brighter future with the power of chemistry. We will strive for technological innovation more than ever to deliver products that satisfy our customers.

# PRODUCT LINES

We are developing our business with halogen and organometallic chemistries as our core technologies.

Regarding halogen chemistry, we have the technology and raw material position to handle all major halogen elements (F, Cl, Br, I), and have created a diverse range of halogen-containing products. Regarding organometallic chemistry, we have the technology and equipment to safely handle Class 3 hazardous substances (pyrophoric and water-restricted substances), and are developing products centered on organic aluminum.

Utilizing these differentiated technologies, we rapidly develop fine organic products that meet market needs and supply them globally, including polymerization catalysts, functional monomers, raw materials for electronic materials, and pharmaceutical intermediates.



## Fluorine Compounds

We manufacture various fluorine compounds based on fluorination technology using hydrogen fluoride and tetrafluoroethylene derivatization technology. TFEA, one of our main products, has been highly trusted by our customers for many years as a high-purity pharmaceutical raw material. Diiodo-divinyl compounds derived from tetrafluoroethylene are supplied both domestically and internationally as chain transfer agents and crosslinking agents, which are essential in the production of fluororesins. In addition, CF3I is being used as an environmentally friendly halon/fluorocarbon alternative gas in fields such as fire extinguishing agents and etching gas, and commercial operation of new equipment began in 2019.



### Fluorine-containing building blocks

■ 2,2,2-Trifluoroethanol (TFEA)

### Special gases

■ FITECT™ (CF3I)

### Fluoropolymer related

■ 1,4-Diiodooctafluorobutane (C4-DI)

■ 1,6-Divinylperfluorohexane (C6-DV)

■ 2,2,2-Trifluoroethyl methacrylate (FLUORESTER®)

## Bromine Compounds

Based on bromine and hydrogen bromide, which are stably supplied by Tosoh, we offer a variety of bromine compounds mainly for use in pharmaceuticals, agrochemicals, and electronic materials. With regard to alkyl bromides, we have established technology to highly purify branched alkyl bromides, and are developing products as pharmaceutical raw materials and more. In addition to supplying high-purity hydrogen bromide gas to the semiconductor field, our bromination technology is also being developed for higher-level functional monomers such as SPINOMAR NaSS.



### Alkyl bromide

■ Allyl bromide (ALB)

■ iso-Butyl bromide (IBB)

■ 1,3-Dibromopropane (1,3-DBP)

### Other bromine compounds

■ Liquefied hydrogen bromide (p-HBr)

Halogenated compounds

Organometallics

## Alkyl aluminum/Polymerization catalysts

Alkyl aluminum is widely used as a polymerization cocatalyst, which is essential for the production of polyolefins, synthetic rubber, etc. Although these products are pyrophoric substances and require know-how to handle and transport, we have established high quality and thorough safety and delivery systems based on reliable technology and experience. We also offer various grades of aluminoxane (MAO), a co-catalyst for metallocene catalysts used in the production of high value-added polyolefins. In 2021, we established an integrated system starting with the raw material trimethylaluminum (TMAL) to meet the demands of domestic and overseas customers.



### Alkyl aluminums

■ Triethylaluminum (TEAL)

■ Diisobutylaluminum hydride (DIBAL-H)

■ Ethylaluminum sesquichloride (EASC)

■ Ethylaluminum dichloride (EADC)

■ Triisobutylaluminum (TIBAL)

■ Tri-n-hexylaluminum (TNHAL)

■ Diethylaluminum chloride (DEAC)

■ Diethylaluminum ethoxide (DEAL-E)

### Polymerization catalysts

■ Aluminum trititanium dodecachloride

■ Methylaluminoxane (MAO)

■ Various contract catalysts

## Organic metals for electronic materials

Organic metals for electronic materials, such as trimethylindium, are used as raw materials for forming compound semiconductor films that are essential for lighting equipment and electronic devices. Utilizing the high-quality TMAL obtained through our unique manufacturing technology, we are also moving forward with development for applications such as semiconductors and solar cells. Our products are Class 3 hazardous materials that require extremely high purity, and so we have developed a quality control system that includes not only analysis technology but also container management to meet the various needs of our customers.



### High-purity organometallics

■ Trimethylindium (EG-TMI)

■ Trimethylaluminum (EG-TMAL)

Functional materials

## Functional monomers • Functional materials

The functional monomer SPINOMAR® NaSS has an overwhelming market share worldwide and is used in a variety of applications, including dyeing aids and reactive emulsifiers. In addition, resist monomers made using our unique efficient manufacturing method are widely used in the semiconductor field. Functional materials that add functionality to the surface include CLESCORT®, a transparent coating agent that provides UV shielding and antibacterial/antiviral properties, and REPELFINE®-E, a fluorine-based mold release agent suitable for precision mold release. We will continue to develop unique materials that add functionality to surfaces.



### NaSS

■ SPINOMAR® NaSS (Sodium p-Styrenesulfonate)

### Surface modifiers

■ CLESCORT®

■ REPELFINE®-E

### Resist monomers

■ p-tert-Butoxystyrene (PTBS)

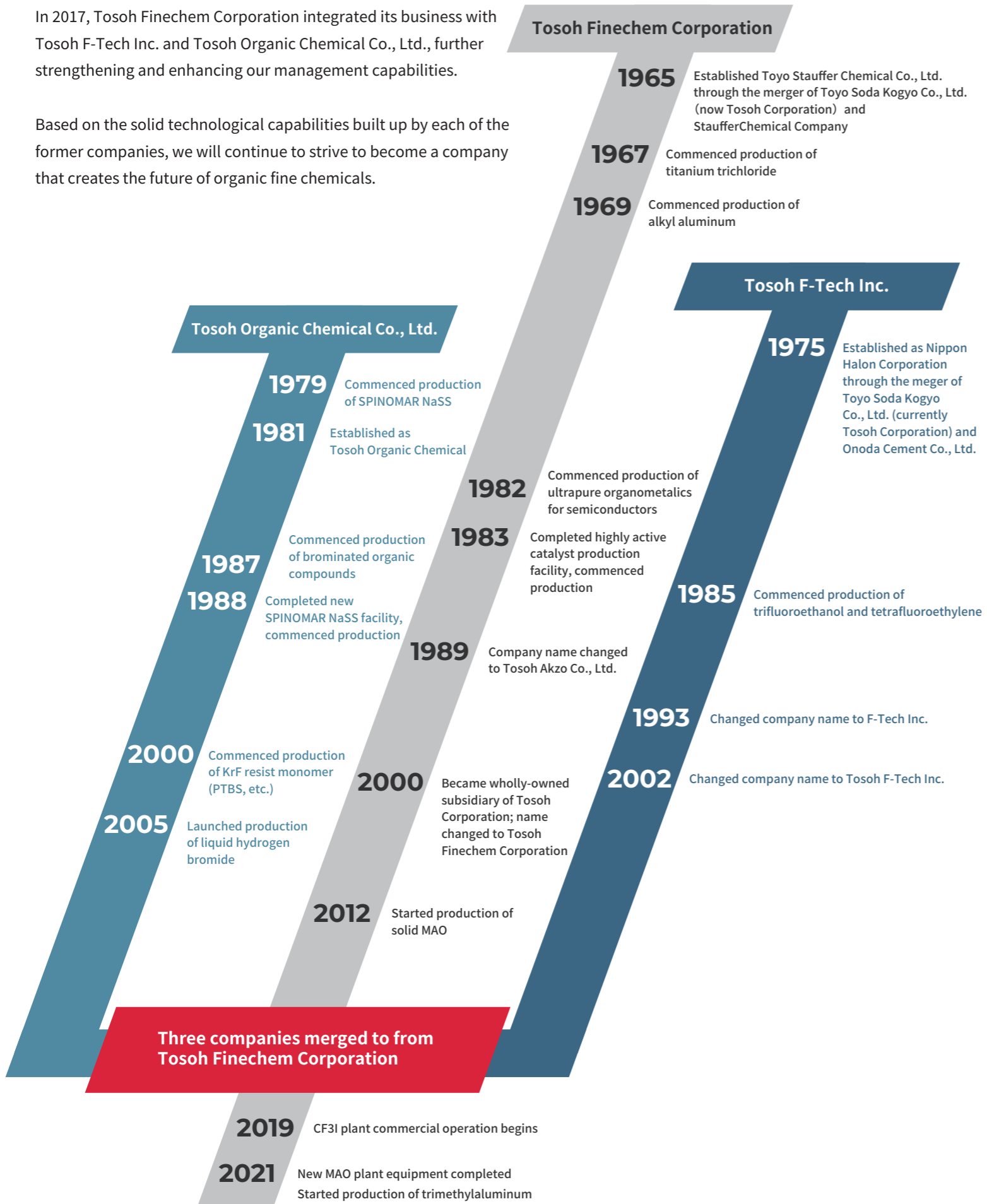
■ p-(1-Ethoxyethoxy)styrene (PEES)

■ p-Acetoxyystyrene (PACS)

# HISTORY

In 2017, Tosoh Finechem Corporation integrated its business with Tosoh F-Tech Inc. and Tosoh Organic Chemical Co., Ltd., further strengthening and enhancing our management capabilities.

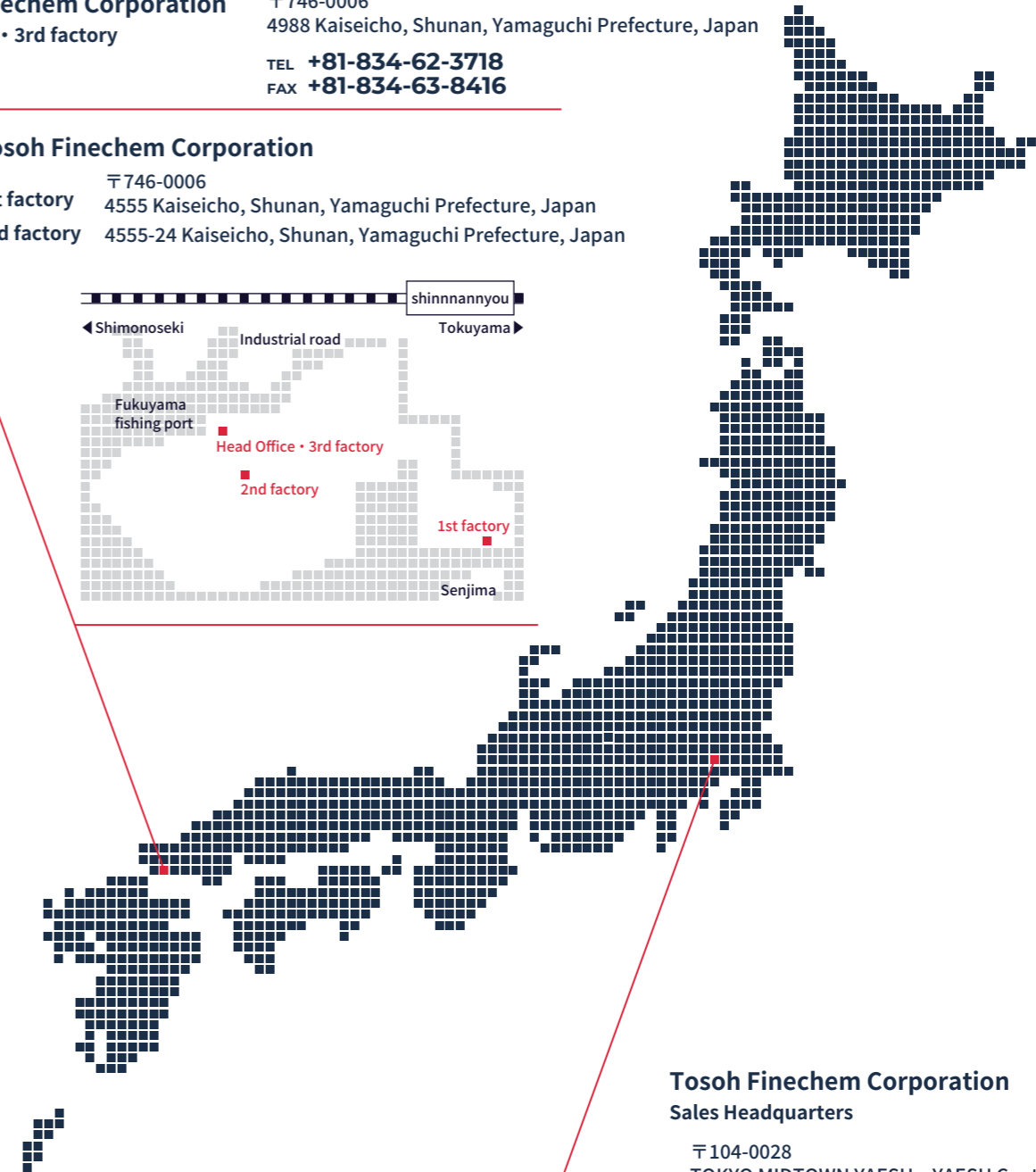
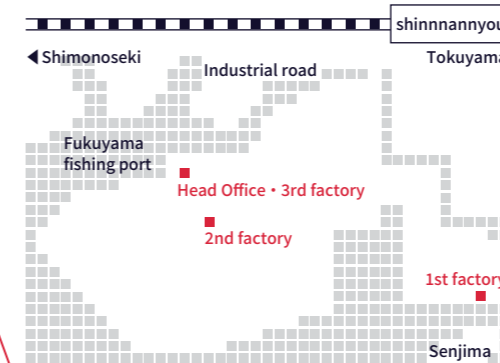
Based on the solid technological capabilities built up by each of the former companies, we will continue to strive to become a company that creates the future of organic fine chemicals.



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EST.	1965
Head Office	4988 Kaiseicho, Shunan, Yamaguchi Prefecture, Japan
Capital	500 million yen
Share holder	Tosoh Corporation 100%