



Corporate Profile	
Company Name	Mitsui Chemicals, Inc.
Founded	October 1, 1997
President & CEO	Tsutomu Tannowa
Head Office	Shiodome City Center, 1-5-2 Higashi-Shimbashi, Minato-ku, Tokyo 105-7122 Japan  Telephone: +81-3-6253-2100 (Corporate Communications Department)
Capital	125,125 million yen
Employees	17,743 (Consolidated/As of March 31, 2019)
Subsidiaries and Affiliates	155 (48 in Japan, 107 overseas / As of March 31,2019)
Domestic Manufacturing Sites	6
Domestic Sales Offices/Head Office	Head Office and three branches
Number of Shares	204,454,615
Business Groups	Mobility, Health Care, Food and Packaging, Basic Materials
URL	<a href="http://group.mitsuichemicals.com">http://group.mitsuichemicals.com</a>

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0→1 MAKE IT HAPPEN



We believe that ideas  
that surprise the world  
and make it a comfortable place  
to live are certainly born from  
a drastic change in thinking.  
Chemistry has the power to create  
things from a new perspective,  
producing one from zero.  
We at Mitsui Chemicals, Inc.  
use our reliable strengths  
to provide solutions for the future  
centered on mobility,  
health care, and food and packaging.





# VISION

## Corporate Vision

**Chemistry must play a prominent role in addressing a variety of social issues.**

Keeping in mind our Corporate Mission and Guidelines, we at Mitsui Chemicals, Inc. are promoting a variety of solutions aimed at ensuring sustainable development in harmony with society, while looking at the present and imagining the future.

### Corporate Mission

Contribute broadly to society by providing high-quality products and services through innovation and creation of materials while maintaining harmony with the global environment.

### Corporate Target

Constantly pursuing innovation and growth to become a chemical group with an undisputed global presence.



Future Vision

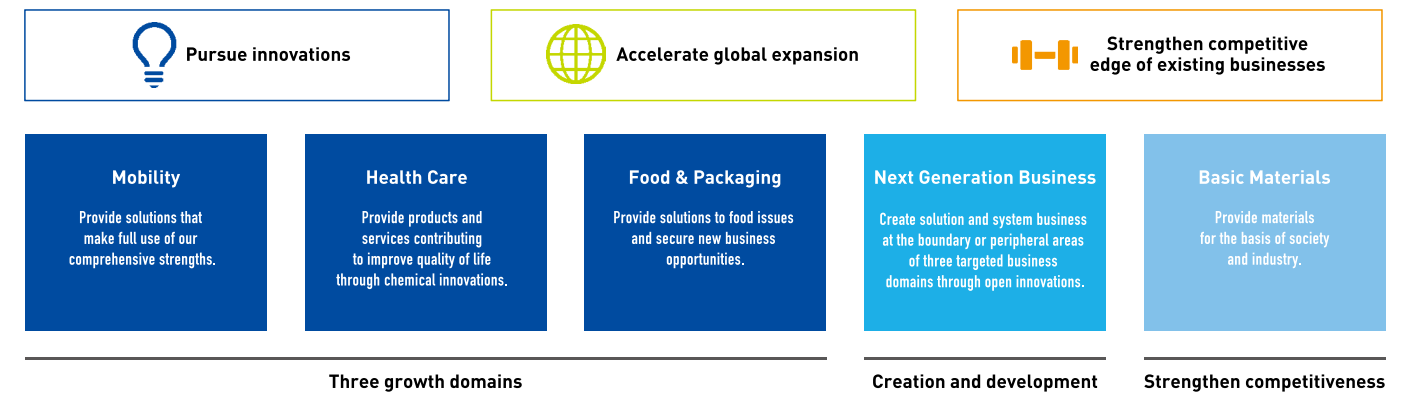
# PLAN

## Business Plan

**We aim to achieve sustainable development of society through innovative technologies, products, and services.**

By working toward becoming a corporate group that creates new customer value and solves social challenges through business activities, we will strengthen our activities in five business domains, as well as our management platform, and promote initiatives that help realize a cohesive society in harmony with the environment, health and security in an aging society, and industrial platforms in harmony with local communities.

**Basic strategies to solve key business issues and provide value to society:**





ADMERTM  
 APELTM  
 ARLENTM  
 FORTIMOTM  
 LUCANTM  
 MILASTOMERTM  
 MITSUI EPTTM  
 POLYMETACTM  
 PP compounds  
 TAFMERTM



Cars of the future  
 should be more than  
 futuristic looking.

## MOBILITY

**The car runs with “light-footed” agility because resins comprise approximately 70% of its parts.**

Although resin accounts for about 10% (or approximately 100 kg) of an automobile’s total weight, it is used for approximately 70% of the 30,000 parts that comprise an automobile. To meet market requirements, such as reduction of weight or environmental burden, resins are becoming increasingly indispensable as they add multifunctionality to those parts.

### Customization based on customer needs.

Mitsui Chemicals has a large market share of PP compounds used for cars. PP compound is a mixture of polypropylene resin, fillers, and modifiers with improved specific functions. It is possible to customize the formulation based on a customer’s needs such as improvement of strength and/or impact resistance. Moreover, PP compound is mainly used for automobile bumpers, instrument panels, pillars (window pillars), and other parts. At Mitsui Chemicals, Inc., we are strengthening and expanding PP global production sites to support Automotive OEMs’ global business strategies.

### Light, flexible, and recyclable.

Milastomer™ was made possible by Mitsui Chemical’s long history of R&D in resins and synthetic rubbers. It is lighter due to low-density characteristics compared with other flexible resins. Additionally, it is used in many parts such as car window frames, interiors, airbag covers, and oil-resistant boots, and achieves light weight that contributes to further improvement of fuel economy. Milastomer™ is flexible and supports various molding methods. It can be recycled and provides economic benefits while saving resources.

### Making the impossible possible through technology.

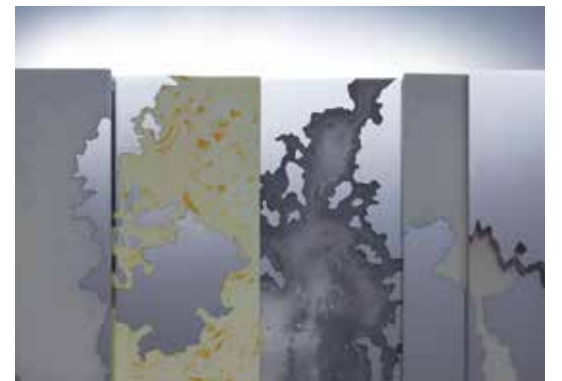
Meeting the various needs of the mobility sector goes beyond the materials used in the parts. Polymetac™, developed by Mitsui Chemicals, is a technology that enables strong bonding between metals and resins, which had been impossible until now. The number of fasteners, such as screws, can be drastically reduced, contributing not only to weight reduction but also to the reduction of manufacturing steps. Using this technology, we propose new part shapes and manufacturing methods that have never been seen to date.



A lightweight PP compound with improved impact resistance is used for bumpers and other components.



Lightweight with an excellent texture, Milastomer™ is used in a wide range of applications, including automobile interiors.



Plastic and aluminum materials are integrated using Polymetac™ technology. (Photo: Masahiro Hayashi)



CARA™  
DO GREEN™  
FINE LOURE™  
MR™  
NEOCONTRAST™  
RAV7™  
SUNSENSORS™  
SWP™  
SYNTEX™  
TAFNEL™  
URBANPOLA™  
UV+420cut™

**These clear lenses  
are filled  
with invisible functions.**

## HEALTH CARE

### Our eyeglass lenses focus on more than vision correction.

Mitsui Chemicals offers a wide range of ophthalmic plastic lens materials with low to high refractive indices. Rather than simply providing lens materials that help correct vision, we aim to address diverse needs and increase health and comfort by adding to the possible applications of lens materials. This vision spurs us on to create new products and services in the health care sector that contribute to a healthy, secure, long-lived society.

#### Protecting eyes from harmful light.

Although most people understand the importance of protecting our eyes from ultraviolet rays, recent research has shown that visible light with short wavelengths between 400 and 420 nm can also damage retinal tissue and be a factor causing age-related macular degeneration. However, lenses in ordinary eyeglasses for vision correction will only block wavelengths less than 400 nm. Mitsui Chemicals has developed a new material for eyeglass lenses, i.e., UV+420cut™. It cuts visible light in the wavelength of 400–420 nm, in addition to blocking all ultraviolet rays to protect your eyes.

#### Make baby's bottom more comfortable.

Disposable diapers use cloth-like nonwoven fabric made by intertwining thin synthetic fibers. Typically, nonwoven fabric is soft to touch, with high permeability for moisture and air, perfect for your baby's bottom. However, because it does not stretch or shrink even when pulled, it is difficult to take off, put on, or move in such diapers. For the first time, Mitsui Chemicals has succeeded in developing a stretchable nonwoven fabric by making use of our specialized technologies. The fabric gently fits around baby's entire bottom and remarkably reduces discomforts such as leaks and scrunching. This stretchable nonwoven fabric has already been adopted by paper diaper manufacturers and is ready to support baby's development.

#### Creating dental materials patients can appreciate.

Oral care is also one of the areas of health care Mitsui Chemicals is focusing on now. In the dental materials sector, we are entering an era of designing and producing dental crowns and bridges for dental healing using digital equipment such as 3D scanners. Mitsui Chemicals is responding quickly to the digitization of these dental materials and is strengthening development in new areas such as preventive care, aesthetic treatments, and diagnostics, as well as conventional restoration.



Offering a wide range of eyeglass lens materials that support eye health and comfort.



High-performance nonwoven fabric is applied on a paper diaper's backsheet and gathers.



Responding to the digitization of dental materials and further developing our business.



# FOOD & PACKAGING

**We have a way to eliminate waste (“mottainai”) that greatly advances food safety and security.**

Rapid population growth in the world has led to severe shortages of food, making it imperative for society to reduce food loss and waste and stabilize agricultural production. Moreover, there is an increasing need for safe and reliable food sources that also have a lesser environmental footprint. At Mitsui Chemicals, we utilize our expertise in organic synthesis and film processing technologies to respond to these challenges and needs. We are engaged in the food and packaging sector, building our business on a base of adhesive and coating materials, films and sheets for packaging and industrial use, and agrochemicals products.

## **Fabricating films with functions that meet varied needs.**

This is a thin film used for packaging foods. It has a multilayered structure produced by pasting several different materials together. The materials used have functions such as resiliency against impact, heat and cold resistance, and ability to be opened easily. Materials can be selected and generated to suit the application. Mitsui Chemicals creates products that meet a variety of needs in this field of high-performance packaging.

## **Making helpful products using excellent materials.**

Mitsui Chemicals also produces functional, adhesive, and coating materials to be used for these films. For example, although polyolefins were thought to be difficult to disperse in water, with Chemipearl™, we disperse various polyolefins in water using our proprietary technology. This is used as a heat sealant for food and medical packaging. In addition, Stabio™, used as a curing agent for adhesives, is a biomass-derived material utilizing non-fossil resources, allowing us to contribute to reducing the environmental burden. Starting on the level of base materials, we support various products made from them that underpin society and daily lives.

## **Cultivating rice that reduces growers’ workload.**

To respond to the challenge of stable agricultural production, we spent years cultivating a hybrid rice strain, Mitsu Hikari. Since its ears are longer than those of general varieties and the number of grains per panicle is also large, yields are high and producers’ earnings should stabilize due to these dependable high yields. Moreover, even if cutting is delayed, it is possible to space out the harvesting work over time, as the quality is less likely to deteriorate. It also has excellent quality and flavor and can meet various demands, including those of rice for the food service industry.

**Micron-level thin film  
brings new confidence  
to food protection.**



Making films for packaging food with materials suitable for each application.



Chemipearl™ is used for medical packaging, with characteristics such as water and chemical resistance.



Using cultivar development to contribute to increased production of food and stable production of agricultural crops.



Acetone  
Bio-Polyol  
Bisphenol A  
Ethylene  
Ethylene glycol  
PET resin  
Phenol  
Polyethylene  
Polymer colloids  
Polypropylene  
Polyurethanes  
Purified terephthalic acid

**Infrastructure supporting  
daily life also contains  
base materials.**

# BASIC MATERIALS

## Supporting society by creating ever-better materials.

Petrochemical products produced from petroleum using chemical reactions include plastics, synthetic fibers, and synthetic rubbers. Each has excellent functions and plays important roles in society and daily lives. At Mitsui Chemicals, we seek to produce value-added petrochemical products and promote further optimization of our production systems. We draw on our unique strengths such as our technology to safely and stably manufacture high-quality, high-density polypropylene and polyethylene.

### Fabricating materials that support various fields.

Phenol, acetone, bisphenol A, high purity terephthalic acid, pet resin, ammonia, urea, ethylene oxide, industrial gas, and urethane — these are just some of the materials manufactured at Mitsui Chemicals. Such materials are used in a wide range of fields, including engineering plastics for automobiles, aircraft, and home appliances, as well as cushioning materials, clothing fibers, and food and beverage containers. Others are used in environmental conservation efforts such as water and gas purification, and raw materials for semiconductors and liquid-crystal manufacturing processes. We aim to bring about a better society and improved lifestyles by delivering materials and technologies that form the base of all industries.

### Building social infrastructure with high-quality tubing.

We do more than provide a source of raw materials. Polyethylene pipes are indispensable in the piping of water and hot water supply systems or gas conduit networks. We thoroughly conduct quality control from the raw polyethylene resin stage onward. Polyethylene pipes have several advantages, such as breakage resistance, processing and bonding ability, durability and weather-resistance, and excellent cost performance. They also support society's infrastructure.

### Actively strengthening the foundation of factories.

At Mitsui Chemicals, we are actively working to strengthen the production technology foundations of chemical plants that produce petrochemical products. We utilize the latest AI technology, IoT, and large-scale data to improve the operation efficiency of chemical plants by preventing manufacturing equipment failure and investigating the causes of quality abnormalities. We aim toward achieving smart plant maintenance and safe and improved operational stability. At the same time, we aspire to become an ideal future factory: one that responds flexibly to environmental changes and achieves harmony between people and machinery.



Resin pellets are transformed into various products.



A gas conduit made of polyethylene resin excels not only in durability but also in its processing and bonding properties.



Aiming for a better factory while improving equipment reliability and operational efficiency.



**Energy Solution**

- Diagnosis and Consulting Business for Photovoltaic Power Generation

**IoT Solution**

- Piezoelectric Film
- ECRIOS™

**Medical Solution**

- Rapid Diagnostics System for Identification of Sepsis-Causing Bacteria

**Agriculture Solution**

- iCAST™ (Integrated Cultivation-Accelerating System)

**Technologies  
for the ideal future**

# NEXT GENERATION BUSINESS

## Creating new values that contribute to building a prosperous future

What is required to achieve a better society and improved quality of life? What is missing? Mitsui Chemicals is actively exploring new possibilities around existing fields to create next generation businesses. We overcome challenges by collaborating with various players in a wide range of fields, including renewable energy, medicine, agriculture, and IoT solutions.

### Diagnosis of solar power generation

Mitsui Chemicals has developed a diagnosis and consulting business for solar power generation. To prevent problems such as poor power generation of solar plants, there is an increasing demand for panel quality evaluation prior to installation, as well as timely identification of issues during operations. Mitsui Chemicals provides analysis and testing services for PV panels and parts used in grid-connected PV power plants and prediction of their total energy generation. We are also one of the largest solar and wind power plant operators in Japan. We utilize our expertise, knowledge, and achievements to promote the use of renewable energy.

### Robots living in harmony with people

Robots are considered to be one of the solutions for an aging society and a decreasing workforce. For both industrial and service robots, high-level safety and functional improvement are required to coexist with people. To swiftly respond to these needs and changes, Mitsui Chemicals is expanding its partnership with industries and academia and is taking on the challenges of creating new business models through open innovation.

### Medical solutions through technology

In the medical field, we are developing technologies and businesses useful in the testing and diagnosis of diseases. For example, we are collaborating with the University of Toyama to develop a new testing method for the rapid identification of sepsis-causing bacteria. Sepsis is a systemic inflammatory disease with a high mortality rate, and it is necessary to quickly identify the bacterial causes for better treatment of patients. This method can identify such bacteria from blood samples in less than 5 hours, which is faster than conventional methods. Mitsui Chemicals aims to become a solution provider through the development of cutting-edge technology to realize a healthy and secure aging society.



Contributing to the stable operation and advancement of solar power generation.



Moving ahead to the next generation with robotic or other types of materials.



Providing solutions in the medical field based on accumulated technologies.



# R&D

Research and Development

In the midst of a dramatically changing human values,  
we seek innovation that responds to human dreams.

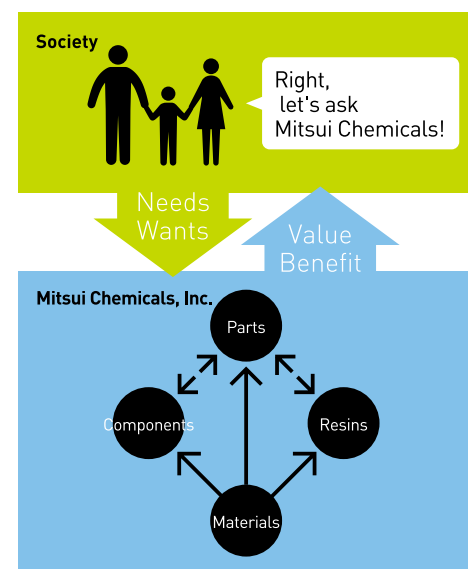


## Pursuing innovation through customer insights.

Given that people's values and needs are changing drastically, along with environmental and social changes, there will come a time when traditional manufacturing methods will no longer be applicable.

Mitsui Chemicals promotes innovation in research and development with customers as our starting point. We quickly identify what society needs and pursues and offer new value with the technologies we have built and strengthened over the years.

We want to make wishes come true in our daily lives by bringing smiles to people's faces all over the world with just one chemical reaction, one pellet, or one sheet of film. In our research and development, it is our desire and aim to become a company that customers are keen to ask for help, with many different people thinking, "Right, let's ask Mitsui Chemicals!"

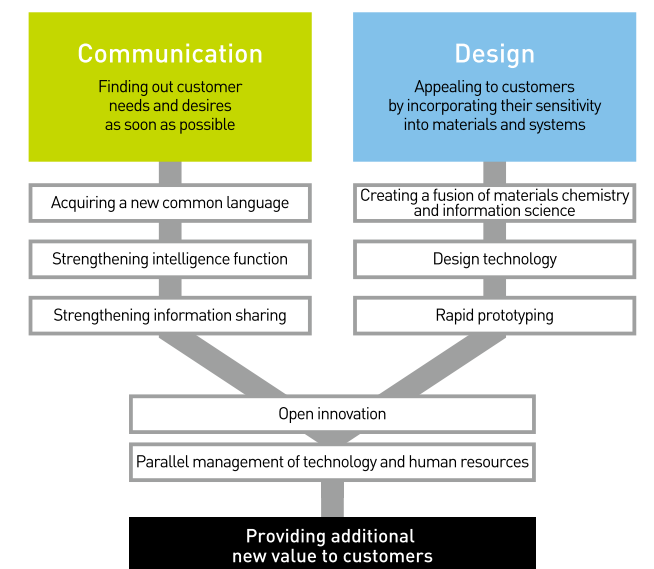


## We give shape to customers' ideas and deliver tangible solutions.

It takes a long time for our products to become incorporated as parts of other products, and finally reach society and people as end products used in their lives. To satisfy customers' needs and desires, we must use our experiences of creating products similar to those of our customers and enhance our ability to communicate with them.

While diversifying our values, we make our customers' wishes come true through comprehensive design, and thus contribute to society.

As our communication and design strategy, we are taking proactive steps to deliver products with additional new value.





# CSR

## Environment and Society

To realize a sustainable society, we implement various efforts to contribute to solving environmental and social challenges.



Mitsui Chemicals and the Ogasawara Whale Watching Association ran a marine litter cleanup with Ogasawara Village along the Matsuyama coast of Chichijima, one of the Ogasawara Islands. The cleanup saw a total of 20 guides collect marine litter that had drifted ashore or been left on the beach. Trash recovered by the guides included fishing nets, buoys and other fishing gear, as well as marine litter that had drifted over from elsewhere in Japan and abroad, such as plastic bottles and toothbrushes. Together with other large trash including tires and toilet bowls mixed in with this, the guides collected six large flexible container bags' worth of waste – totaling approximately 6 m<sup>3</sup> in volume.

### Donated NONROT™-Treated Benches Made from Non-Native Bishop Wood

In the second round of the Mitsui Chemicals Group's Protecting Our World Natural Heritage Project series, Mitsui Chemicals and Mitsui Chemicals Industrial Products have been supporting a project focused on bringing back the endemic species *Morus boninensis* to the Ogasawara Islands. As part of this endeavor, the companies donated benches and signs made from felled bishop wood (*Bischofia javanica*), a non-native species, to Ogasawara Village at a *Morus boninensis* planting event. The benches and signs are treated with NONROT™, a wood protective coating supplied by Mitsui Chemicals Industrial Products that lets the wood breathe, allowing the scent of the timber itself to emerge.



Healthy vision activity in India at the production site of Do Green™ ophthalmic lens material.



We donated benches of Yakushima cedar coated with our protective wood paint.



Donating to NPOs and other organizations with funding voluntarily collected by our employees in our "One Little Coin" program.



Immediately providing disaster relief supplies comprising our products in collaboration with NPOs.



Supporting work-life balance by having "a nursery adjacent to sites" and other programs.



Organizing events to consider agriculture and the environment through the Wildlife Survey on Rice Fields.



Organizing Laboratory Classes in the Wonders of Chemistry to share the fun and possibilities of science with children.



Donating computers to a neighboring elementary school in India as one of the training support activities for future generations.



Implementing environmental protection activities such as planting mangroves and releasing juvenile fish in Thailand.







Arranging meetings to exchange opinions with local communities in each site.





# HISTORY

## History of the Mitsui Chemicals Group

### History of Coal Chemicals




- 1912 ● Mitsui Mining starts full-scale chemical operations at Omuta (currently our Omuta Works).  

- Establishes the first Koppers coke oven in Japan.
- 1915 ● Production of alizarin, Japan's first synthetic dye, begins (Omuta).
- 1916 ● Omuta Works starts phenol production.  
● First coal chemistry complex formed in Japan.
- 1928 ● Mitsui Mining actively expands chemical operations into other areas, including synthetic ammonia and ammonium sulfate.  

- 1932 ● Production of synthetic "indigo" dyes begins (Omuta).  

- 1933 ● Toyo Koatsu Industries established.  

- 1941 ● Mitsui Chemical Industry established.
- 1944 ● Mitsui Chemical Industry starts production of synthetic petroleum.
- 1948 ● Toyo Koatsu Industries (currently our Hokkaido Mitsui Chemicals, Inc.) begins mass-production of urea fertilizer in Japan.
- 1950 ● Nagoya Manufacturing Factory (currently our Nagoya Works) is inaugurated.
- 1951 ● Nagoya Works commences full-scale production of vinyl chloride.
- 1955 ● Mitsui Petrochemical Industries established.  
● Transition to petrochemical business.

### Transition to petrochemical business.

- 1958 ● Iwakuni-Otake Works starts operations.  
Japan's first petrochemical complex is completed.  

- Mitsui Chemicals Industry starts film business. Hula hoop boom generates mass orders for HI-ZEX™ (polyethylene).  

- 1960 ● DuPont and Mitsui Chemicals form a joint venture, Mitsui Polychemicals (currently Dow-Mitsui Polychemicals Co., Ltd.), and low-density polyethylene is produced.
- 1962 ● Japan's first polypropylene plant starts operations (Iwakuni-Otake Works).
- 1964 ● Osaka Manufacturing Factory (currently Osaka Works) starts operations.
- 1966 ● First overseas investment establishes Singapore Adhesives & Chemicals (SAC) in Singapore.  
● Mitsui Chemicals Industry starts urea-formaldehyde plywood adhesive production.
- 1967 ● Chiba Factory (currently Ichihara Works) starts ethylene production.
- 1968 ● Toyo Koatsu Industries merges with Mitsui Chemical Industry to form Mitsui Toatsu Chemicals, Inc.
- 1970 ● Mitsui Chemical Industry exports high-density polyethylene manufacturing technology to Romania.  
● First export of petrochemical technology to Eastern Europe demonstrates world-class technology.
- 1972 ● Thai Plastics and Chemicals (TPCC) starts vinyl chloride polymer business.
- 1975 ● Launch of polyolefin adhesive agent ADMER™.  
● MILASTOMER™ adopted for automobile bumper components.



### Into the Era of Mitsui Chemicals

- 1986 ● Groundbreaking ceremony for Mitsui Petrochemical Industries New Technology Research and Development Center (currently Sodegaura Center).  

- C&CT [currently Advanced Composites (ACP)] established as our first U.S. manufacturing site, in response to the request from Honda Motor Co., Ltd. to start business in the U.S. and begin on-site master batch production.  

- 1987 ● Mitsui Toatsu Chemicals Asia [currently Mitsui Chemicals Asia Pacific (MCAP)] established in Singapore.
- 1988 ● Mitsui Chemicals America (MCA) established.
- 1990 ● Mitsui Toatsu Chemicals Europe [currently Mitsui Chemicals Europe (MCE)] established.  
● At the same time, sales companies are set up in Germany and the U.K. to develop marketing structure in the European market.
- 1994 ● First polypropylene compound manufacturing site in Mexico established.
- 1997 ● Mitsui Petrochemical Industries, Ltd. and Mitsui Toatsu Chemicals Inc. merge to form Mitsui Chemicals, Inc. (MCI).  

- 1999 ● Mitsui Chemicals Shanghai [presently Mitsui Chemicals (China) Co., Ltd. (MCCN)] established.
- 2000 ● Mitsui Petrochemical Industrial Products and Mitsui Toatsu Construction Materials merge to form Mitsui Chemicals Industrial Products, Ltd.
- 2001 ● Mitsui Elastomers Singapore established.
- 2005 ● Prime Polymer starts sales by integrating polyolefin business of Idemitsu Kosan Co., Ltd. and MCI.

### Acceleration to become a global company.

- 2008 ● Mitsui Chemicals India, Pvt. Ltd. (MCIND) established.
- 2009 ● Mitsui Fine Chemicals incorporated (Mitsui Fine Chemicals, Inc. and Mitsui Toatsu Inorganic Chemicals, Inc. merge).  
● Mitsui Chemicals Agro, Inc. established (Sankyo Agro and Mitsui Chemicals Agrochemicals division merge).
- 2010 ● Mitsui Chemicals do Brazil Comércio Ltda. established.  
● Mitsui Chemicals Tohcello, Inc. formed by film/sheet business integration of Tohcello and Mitsui Chemicals Fabro.
- 2012 ● 100th anniversary of the Omuta Works.
- 2013 ● Dental materials division of Heraeus Holding GmbH acquired.
- 2014 ● World's first large-scale XDI plant built in Omuta Works.
- 2015 ● Mitsui Chemicals SKC Polyurethane Inc. starts operations as a joint venture with MCI and SKC Polyurethane Inc. in Korea.
- 2016 ● Mitsui Chemicals Korea (MCKR) starts operations.  
  
● EVOLUE™ plant in Singapore starts commercial-base operations.  

- 2017 ● Mitsui Chemicals Thailand Co., Ltd. established.  
● 20th anniversary of Mitsui Chemicals, Inc.
- 2018 ● Acquired ARRK Corporation, a global development organization.

# NETWORK

## Domestic Sites

### Head Office

Shiodome City Center,  
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### Nagoya Branch

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### Ichihara Works

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### Mobara Branch Factory

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### Nagoya Works

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### Osaka Works

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Fax: +81-722-68-0004

### Iwakuni-Ohtake Works

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Fax: +81-827-53-8800

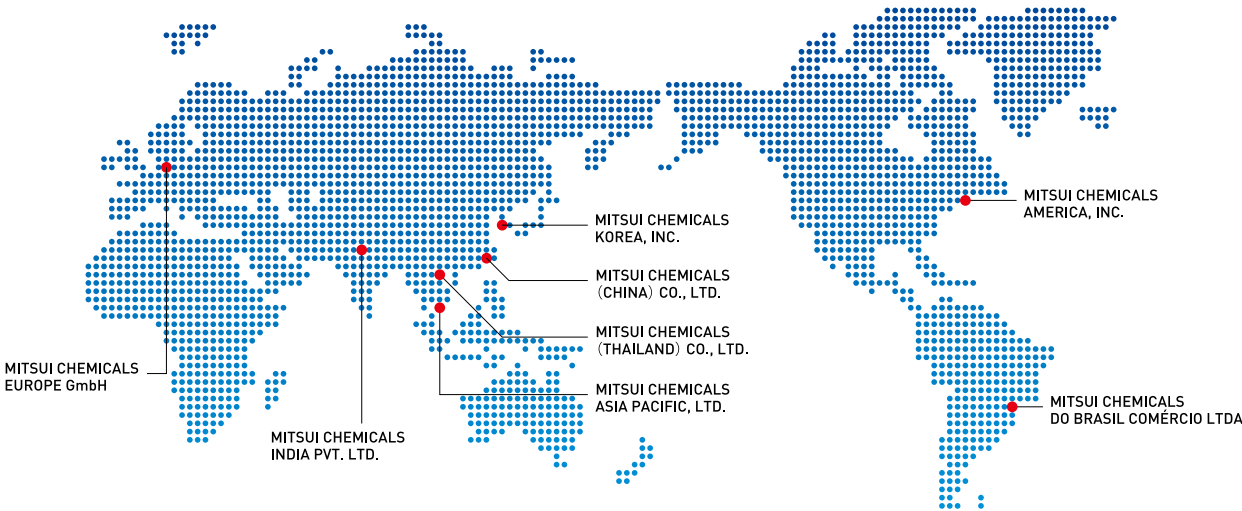
### Omuta Works

30 Asamuta-machi, Omuta City,  
Fukuoka 836-8610  
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Fax: +81-944-51-8128

### Sodegaura Center

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## Overseas Sites



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## Subsidiaries and Affiliates in Japan (consolidated as of April 1,2019)

ARRK CORPORATION	YONCELLO SANGYO CO., LTD.	NIPPON TENSAR LTD.
UTSUNOMIYA CHEMICAL INDUSTRY CO., LTD.	SHIMONOSEKI MITSUI CHEMICALS, INC.	PRIME POLYMER CO., LTD.
MC OPERATION SUPPORT CO., LTD.	JAPAN COMPOSITE CO., LTD.	KULZER JAPAN CO., LTD.
MC DENTAL HOLDINGS INTERNATIONAL, LLC	TAISHO MTC LTD.	HOKKAIDO MITSUI CHEMICALS, INC.
MC BUSINESS SUPPORT, LTD.	TAHARA SOLAR-WIND™ JOINT PROJECT	HONSHU CHEMICAL INDUSTRY, LTD.
MC RYOKKA CO., LTD.	CHIBA CHEMICALS MANUFACTURING LLP	MITSUI CHEMICALS AGRO, INC.
MT AQUAPOLYMER, INC.	DM NOVAFOAM, LTD.	MITSUI CHEMICALS MC, LTD.
OSAKA PETROCHEMICAL INDUSTRIES, LTD.	TOYO KOHSAN CO., LTD.	MITSUI CHEMICALS INDUSTRIAL PRODUCTS, LTD.
KATSUZAI-CHEMICAL CORP.	TOYO BEAUTY SUPPLY CORPORATION	CHEMOURS-MITSUI FLUOROPRODUCTS CO., LTD.
KYODO CARBONIC INC.	TOYO PHOSPHORIC ACID, INC.	MITSUI CHEMICALS SUN ALLOYS CO., LTD.
KYOWA INDUSTRIAL CO., LTD.	TOHCELLO SLITTER CO., LTD.	MITSUI CHEMICALS TOHCELLO, INC.
SAXIN CORPORATION	TOHCELLO LOGISTICS CO., LTD.	MITSUI FINE CHEMICALS, INC.
SANSEIKAIHATSU CO., LTD.	TOKUYAMA POLYPROPYLENE CO., LTD.	MITSUI CHEMICALS & SKC POLYURETHANES INC.
SUN MEDICAL CO., LTD.	NIPPON ALUMINUM ALKYLs, LTD.	MITSUI CHEMICAL ANALYSIS & CONSULTING SERVICE INC.
SUNREX INDUSTRY CO., LTD.	NIPPON EPOXY RESIN MANUFACTURING COMPANY LTD.	DOW-MITSUI POLYCHEMICALS CO., LTD.
SHIKOKU TOHCELLO CO., LTD.	EVOLUE JAPAN CO., LTD.	YAMAMOTO CHEMICALS, INC.

## Major Subsidiaries and Affiliates Overseas (consolidated as of April 1,2019)

<b>Europe</b> ARRK EUROPE LTD. KULZER GMBH MITSUI PRIME ADVANCED COMPOSITES EUROPE B.V. SCIENTIFIC GLASS GMBH Shaper's France SASU SUN ALLOYS EUROPE GMBH	LOTTE MITSUI CHEMICALS, INC. MSCT CORPORATION (TAIWAN) KOC SOLUTION CO., LTD. MITSUI CHEMICALS & SKC POLYURETHANES INC. (KOREA)	<b>North America</b> ADVANCED COMPOSITES, INC. ANDERSON DEVELOPMENT COMPANY DENTCA, INC. IMAGE POLYMERS COMPANY, LLC KULZER, LLC KYOWA INDUSTRIAL CO., LTD., U.S.A. RESPIRE MEDICAL HOLDINGS LLC SDC TECHNOLOGIES, INC. WHOLE YOU, INC.
<b>East Asia</b> MITSUI ADVANCED COMPOSITES (ZHONGSHAN) CO., LTD. MITSUI CHEMICALS NONWOVENS (TIANJIN) CO., LTD. MITSUI CHEMICALS FUNCTIONAL COMPOSITES CO., LTD. SHANGHAI SINOPEC MITSUI CHEMICALS, CO., LTD. SHANGHAI SINOPEC MITSUI ELASTOMERS, CO., LTD. SHANGHAI MITSUI PLASTICS COMPOUNDS LTD. SHANGHAI KH MOULD TECHNOLOGY CO.,LTD ZHANG JIA GANG FREE TRADE ZONE MITSUI LINKUPON ADVANCED MATERIALS, INC. TAIWAN MITSUI CHEMICALS, INC. FORMOSA MITSUI ADVANCED CHEMICALS CO., LTD. YONGSAN MITSUI CHEMICALS, INC.	<b>Southeast Asia and Oceania</b> MITSUI CHEMICALS SINGAPORE R&D CENTRE PTE. LTD. ARRK CORPORATION(THAILAND) LTD. COSMO SCIENTEX (M) SDN. BHD. GC-M PTA CO.,LTD GRAND SIAM COMPOSITES CO., LTD. KYOWA AP INTERNATIONAL CO., LTD. MC TOHCELLO (MALAYSIA) SDN. BHD. MCTI SCIENTEX SOLAR SDN. BHD. MITSUI ELASTOMERS SINGAPORE PTE. LTD. MITSUI HYGIENE MATERIALS (THAILAND) CO., LTD. MITSUI PHENOLS SINGAPORE PTE. LTD. PRIME EVOLUE SINGAPORE PTE. LTD. P.T.PETNESIA RESINDO SDC TECHNOLOGIES ASIA PACIFIC PTE. LTD. SIAM TOHCELLO CO., LTD. THAI PET RESIN CO., LTD.	<b>Central and South America</b> ADVANCED COMPOSITES MEXICANA S.A. DE C.V. PRODUMASTER ADVANCED COMPOSITES