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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.
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
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:
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.

Cars of the future should be more than futuristic looking.
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.
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.

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

There is a way to eliminate waste that greatly advances food safety and security.

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

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

Yakushima Town has been concerned about a shortage of infrastructure to welcome many visiting tourists and climbers from around the world, since Yakushima is a registered World Natural Heritage Site. To provide support, Mitsui Chemicals donated 12 benches to the town, made by Yakusugi craftsmen from Yakushima thinning cedar lumber using our NONROT™ treatment. The benches are coated with protective wood paint that retains wood scent while allowing regulation of moisture. In this way, we seek to contribute to protecting the natural beauty and value of Yakushima, an island that nurtures and heals the senses.
History of the Mitsui Chemicals Group

**History of Coal Chemicals**

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

1915 - Production of azaleins, Japan’s first synthetic dye, begins (Omuta).

1916 - Omuta Works starts phenol production.

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.**

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

1960 - DuPont and Mitsui Chemicals form a joint venture, Mitsui Polychemicals (currently DuPont-Mitsui Polychemicals Co. Ltd.), and low-density polyethylene is produced.

1962 - Japan’s first polypropylene plant starts operations (Iwakuni-Otake Works).


1966 - First overseas investment establishes Singapore Adhesives & Chemicals (SAC) in Singapore.


1968 - Toyokoatsu Industries merges with Mitsui Chemical Industry to form Mitsui Toatsu Chemicals, Inc.

1970 - Mitsui Chemical Industry exports high-density polyethylene manufacturing technology to Romania.

1975 - Launch of polyolefin adhesive agent ADMER™.

1980 - 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].

1987 - Mitsui Toatsu Chemicals Asia [currently Mitsui Chemicals Asia Pacific (MCAP)] established in Singapore.

1988 - Mitsui Chemicals America (MCA) established.

1990 - Mitsui Chemicals Europe [currently Mitsui Chemicals Europe (MCE)] established.

1994 - First polypropylene compound manufacturing site in the European market.

1997 - Mitsui Petrochemical Industries, Ltd. and Mitsui Toatsu Chemicals Inc. merge to form Mitsui Chemicals, Inc. (MCI).


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.**


2009 - Mitsui Fine Chemicals incorporated (Mitsui Fine Chemicals, Inc. and Mitsui Toatsu Inorganic Chemicals, Inc. merge).

2010 - Mitsui Chemicals Agro, Inc. established [San-Ei-Agro and Mitsui Chemicals Agrochemicals division merge].

2012 - Mitsui Chemicals do Brasil Comercial Ltda. established.

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.

2020 - EVOLVE™ plant in Singapore starts commercial-scale operations.

2021 - 20th anniversary of Mitsui Chemicals, Inc.
48 Domestic Affiliates (as of April 1, 2017)

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Number of overseas subsidiaries (consolidated as of April 1, 2017): 85