From an Innovative Japanese Chemical Company
Innovating the future through chemistry.

We are a pioneer of chemical innovation that continues to go forward and forward. In order to live a more affluent life, our ancestors came up with tools and developed them as science in the midst of the harsh forces of nature over a long period of history. We human beings will continue to take steps toward further development of science in the future. As a pioneer of chemical innovation, we will continue to pursue research and development of earth-friendly chemistry and take steps toward harmonization between technologies, humans and nature. The mission of ISK is to produce new products in order to produce earth-friendly environments.

We aim to innovate the future of the world with the power of chemistry by taking advantage of the technical capabilities we have cultivated in the world of chemistry, in order to realize a social environment where all people can live a better life.
Innovating to brighten people’s lives with “white.”

Creating “white color” to brighten everyday life

Many of the white objects that you see in everyday life—cars and planes, washing machines and air conditioners, wallpaper and exterior house walls—owe their white color to titanium dioxide from ISK.

Our innovative titanium dioxide technology also plays an important role in electronic components, the decomposition of organic pollutants, and the purification of contaminated soil.

**Functional Materials**

Electronic components, artistic materials, catalysts that help prevent air pollution, and more. These materials use technologies developed by working with titanium dioxide and have a wide range of uses from the household to the environment.

**Matting Agents**

As additives for paints and plastics, these materials reflect near infrared rays to shield heat when applied to roofs, outer walls, and roads.

**Heat Shield Materials**

These products mitigate physical issues, such as weather resistance and coating preservation, and help improve design characteristics.

**Heat Shield Materials**

We help create pleasant living environments and contribute to reduced carbon emissions and energy savings.

**Protecting the Soil, Water and Natural Environment**

ISK contributes to the maintenance and regeneration of essential natural environmental resources, including soil and water, by providing soil improvement agents and environmental cleaning materials developed by ISK’s proprietary ultralite particle and functionality enhancement techniques.

**Coloring with “White” from Consumer Goods to Large Buildings**

**Titanium Dioxide**

ISK is the only dual-process holder in Japan in supplying “white” globally. In addition to the sulfite process, ISK also employs the chloride process that generates smaller amount of industrial wastes but requires higher technology.

**TIPAGUE**

Our TIPAGUE occupies the largest market share in Japan and is also popular around the world. It is the leading brand in the titanium dioxide market with its high-quality white color, excellent hiding power, and high tinting strength on metals.

**TIPAGUE Yellow**

Offering high levels of safety, weather resistance, thermal resistance, and chemical resistance. Our yellow pigments are used in many applications including paints and plastics.

**Offering Comforts in Various Occasions**

**Functional Materials**

With its proprietary technologies including ultralite particle synthesis and surface treatment, besides its use as white pigments, ISK is diversifying the applications of titanium dioxide for better living environment.

**Electro-conductive Materials**

Major applications of ISK’s electro-conductive products are floor coatings for clean rooms where anti-static and antistatic properties are required, and conductive coatings for rear bumpers of automobiles to enable electrostatic coatings.

**High-purity Titanium Dioxide**

We offer high-purity titanium dioxide, an ideal material for electronics.

**Realizing superior texture**

**Matting agents**

These products mitigate physical issues hindering the use of matting paints, such as weather resistance and coating preservation, and help improve design characteristics.

**Creating pleasant, eco-friendly spaces**

**Heat Shield Materials**

Our white, black, and transparent inorganic materials provide heat shielding in the near infrared to enhanced light spectrum, and are used in paints and plastics that require heat shielding.
Innovations in food, health and color.

Enriching food. Promoting healthier living. Making the ordinary extraordinary.

We are relentlessly pursuing research and development to help people enjoy better food, health, and lifestyles each and every day. Our agrochemicals, which ensure a safe and stable supply of all kinds of food, and our pharmaceuticals, which accelerate the evolution of medicine, go hand-in-hand with food and health. What is more, we deliver one-of-a-kind flower color that blossoms with our biotechnology. Ishihara Sangyo continues to support the world by bringing innovation to these fields with its unique technologies.

**Agrochemicals**

- **Herbicides**
  - Our herbicides, safe for humans/mammals and environmentally friendly, are widely used in paddies and upland fields and have been contributing to safe and sustainable food production.

- **Fungicides**
  - Our highly effective agents have safety profiles to the environment, animals, and humans and are widely used as main control agents for fungal diseases caused by nematodes, ascomycetes, etc.

- **Insecticides and Nematicides**
  - We offer unique agents/broad-spectrum insecticides and nematicides highly effective against aphids and other sucking insects, as well as nematicides that can control pests in the soil and on the ground.

- **Biopesticides**
  - Our natural enemy biological products eliminate smaller pests and other microorganisms, and our insecticides control a variety of pests. The use of chemical pesticides can be reduced by using these biological insecticides in combination with control technologies that have low impact on them, thereby mitigating environmental impact.

**Animal Health Products**

We aim to protect pets from diseases, and provide new drugs and reliable services to pet owners.

**Contributing to a more fulfilling life**

- **Blue Gen**,
  - which we successfully developed after overcoming many difficulties, will help enriched people’s lives by providing value that will never fade away as a gift for loved ones, for celebrations, and for various other occasions.

**Contributing to Advancements in Medicine**

- **Pharmaceuticals**
  - Our active pharmaceutical ingredients and organic intermediates provide the basis for pharmaceutical development. All are highly acclaimed both in Japan and overseas. We are playing an important role in the pharmaceutical field to maintain people’s health.

- **Active Pharmaceutical Ingredients**
  - Utilizing technologies developed in the agrochemicals business, we produce high-quality active pharmaceutical ingredients at a factory compliant with Good Manufacturing Practices (GMP) and ensure stable supplies to pharmaceutical companies in Japan.
World’s Most Advanced Development Capability

One-of-a-kind products with human-earth friendly technology

The strengths of all our products that are globally valued in both inorganic and organic fields are high added value based on our own technological development capabilities cultivated since our foundation. We look ahead the future, establish a research and development system that proactively challenges new fields, and continue to create one-of-a-kind products with our innovative technologies that are friendly to people and the earth.

Inorganic Chemicals Division

The Inorganic Chemistry Division is advancing research and development of high value-added products that contribute to the environment and energy saving by utilizing our technologies such as fine particle synthesis technology cultivated in the production of titanium dioxide pigment.

In addition, the division is actively engaged in basic research to develop new businesses and in process development for manufacturing next-generation products.

Organic Chemicals Division

To help achieve stable food supply around the globe, the Organic Chemicals Division engages in R&D of highly effective agrochemicals that are very safe and environmentally compatible. In recent years the division has also been developing products for the medical and animal healthcare.

Production System

Reliable Safety and Quality Production

Our world-class manufacturing system makes products that support the world today.

The Yokkaichi Plant is a manufacturing center for titanium dioxide and many other products. On a 70 hectare land site (173 acres), stand wastewater treatment facilities with a 200,000 ton daily capacity as part of a world-class manufacturing system that features strong environmental management and quality management. The stable supply of safe, high-quality products supports the world today.

Titanium Dioxide Plant

Japan's only plant that employs the chloride method to produce titanium dioxide. Two types of manufacturing processes—chloride and sulfate—are used to produce approximately 50% of the titanium dioxide manufactured in Japan, which is also exported to Asia and other parts of the world.

ISK’s Quality Management System

Our Yokkaichi Plant got ISO 9001 certification in April 1996 and continues to carry out quality control meetings at the top management level. Periodic QMS internal audits are conducted, and an MSQ (Management System) Committee and Quality Management Committee are in place as part of a management system that assures high quality.

Functional Materials Plant

Manufactures ultralight titanium dioxide, high-purity titanium dioxide, photocatalytic titanium dioxide, white conductor powder, and other functional materials that are closely integrated into people's lives.

Agrochemicals Plant

Primarily engages in the commercial production of herbicides, insecticides, fungicides, and other agrochemicals.

Pharmaceuticals Plant

Manufactures and supplies to pharmaceutical companies the active pharmaceutical ingredient of compound arylimidazole hydrate, a medication for the treatment of patients with Sjogren’s syndrome, with symptoms including dry mouth, etc., which is caused by gastrointestinal dysfunctions. Manufacturing is approved by the U.S. Food and Drug Administration (FDA).

Chemical Products Plant

For effective utilization of the by-products of titanium dioxide, the plant produces gypsum, iron oxide, and other environmental products that earn in environmental improvement. Also, the effluents from each plant are treated properly according to the law.
Compatibility of Innovation and Environmental Conservation

Nothing can ever make up for a degraded environment.

Producing technological innovation while conserving the environment is the perpetual theme of the chemical manufacturer.

In light of ultimate past results of putting economic activities first, the company has established an environmental conservation division at each business location and administrative division as part of a complete environmental conservation system. Through aggressive environmental conservation activity, we continue to contribute to achieving a sustainable society.

Our Environment, Safety & Health Management Committee deliberates on the best policies for environmental conservation in general, occupational safety and health, chemical substance management, and climate change countermeasures. Under this Committee, we have established specific committees and councils, and promote various activities related to the environment, and to occupational safety and health. In addition, the Yokkaichi Plant acquired ISO 14001 certification in April 2011. Through periodic EMS’ internal audits and other activities by the MS Committee and Environmental Preservation Committee, it carries out daily environmental management activities and is making notable improvements.

Promoting Responsible Care and Sharing Information

We carry out Responsible Care activities—bearing the concerns of citizens and developing mutual understanding through dialogue. We also share information on environmental conservation and occupational safety and health in our integrated reports.

Proper Management of Chemical Substances

We prepare and maintain Safety Data Sheets (SDS) for all products and intermediates that provide hazard and toxicity information. In addition to providing this information to our customers, we are contributing to environmental conservation, safety and health, and legal compliance through house training.

Basic Philosophy

- Contribute to social development, protection of life and environmental preservation
- Respect shareholders, customers, suppliers, local communities and employees
- Abide by laws and regulations, maintain transparency in business activities

We supply information regarding the safety of chemical substances.

Disclosing Information on Environmental Protection

The Yokkaichi Plant sets up the environmental information display in front of the main entrance of the plant. It provides information for visitors and serves to raise environmental awareness among employees.

Coexisting with Local Community

We offer plant tours and participate in local events to actively communicate with citizens. We aim to have open and cooperative behavior as a good corporate citizen.

We release NH3 concentrations in wet flue gases and other figures subject to water quality regulations.

Environmental Conservation

Company Profile

Company name: ISHIBARA SANGYO KAISHA, LTD.
Head office: 3-13 Edobori-2-chome, Nishi-ku, Osaka 550-0002
Founded: September 10, 1920
Incorporated: June 1, 1949
Business locations: Head Office, Central Research Institute, Yokkaichi Plant, Tokyo Branch, Chiba Branch, Singapore Sales Office, Sendai Sales Office, Fukuoka Sales Office, Argentina Branch, Singapore Branch

Code of Conduct

At Ishibara Group, we will strictly observe laws, regulations, social norms and Company rules, while steadfastly adhering to high ethical standards, so as to gain social trust in our business.

In manufacturing activities, we will place the utmost priority on global environmental protection, as well as on worker safety, and will work to prevent any workplace accident or disaster.

On the basis of respect for human rights, we will promote mutual understanding and cooperation among employees, in order to create an open and friendly workplace.

To maintain transparency in our business activities, we will promote communication with local communities and society, and will disclose corporate information in a timely and appropriate manner.

History

Sep. 1920: In Osaka, Hideharu Ishibara established Nihon Mining Partnership Co., a small factory of iron mining in Horikiri, Iwate Prefecture.
May 1929: Purchased an iron ore mine property in Iwate Prefecture.
Aug. 1939: Renamed the firm to Ishibara Sangyo Marine Partnership.
May 1945: Recognized as a large iron ore company. Opened an iron and steel mill in Misato Mines.
Oct. 1959: Began building its Takanaka Plant in Misato Mines. (Completed in 1965)
Jan. 1960: Discontinued the firm in compliance with the Industrial Reconstruction Law. Returned operations under the new company, Ishibara Mining & Industrial Co., Ltd., which succeeded Ishibara Sangyo Kaisha, Ltd. (The same name).
Apr. 1961: Constructed a tumbler grinding plant in Yokkaichi.
Jul. 1962: Constructed a chemical fertilizer plant in Yokkaichi. (Wholly owned business of Chemical Industries in February 1959)
Mar. 1964: Constructed a sulfuric acid plant in Yokkaichi.
Jul. 1964: Opened a research institute in Yokkaichi, which was renamed the Central Research Institute in June 1968.
Mar. 1965: Constructed a carbonaceous black (carbon black) plant in Yokkaichi.
Apr. 1965: Renamed the Central Research Institute to Kanazawa, Nagano Prefecture.
Dec. 1974: Constructed a sulfuric acid plant in Yokkaichi but failed to meet the construction deadline.
May 1978: Constructed a nylon 6 plant.
Aug. 1990: Transferred agrochemicals marketing business in drug to Ishibara Drug Agricultural Co., Ltd., one of ISEI subsidiaries (now ISEI Resources K.K.)
Jul. 1996: Transferred agrochemicals marketing business in Europe to UK SHINCARGO EUROPE N.V., one of ISEI’s subsidiaries in Europe.
Dec. 1998: Constructed a new factory in Japan. (Withdraws from business in Japan)
May 2005: Acquired 100% ownership of TEI Titanium Industries Co., Ltd.
Jun. 2003: Renamed the subsidiary Tiakem, which has been operating a hydrocarbon subsidiary in Korea.
Mar. 2009: Constructed a business alliance with Viont Pharmacies Limited (VPL), the largest manufacturer of agrochemicals in India.
Mar. 2008: Reorganized the company’s overall corporate structure. (Announced the sale and merger of a portion of the securities and measures to prevent occurrences in May 2008)
Jun. 2010: Listed Environmental Municiple on a full scale.
Dec. 2013: Shrink for chlorinated paraffin (chlordiazepoxide) plant of UK SHINCARGO LTD. (Completed liquidation in March 2013)
Apr. 2015: Established UK SHINCARGO ENGIA PVT. LTD.
Dec. 2015: Completed the final disposal of research
May 2016: Established UK SHINCARGO (STANDARD) LTD.
Established UK SHINCARGO (SINGAPORE) CHEMICALS CO., LTD.
Sep. 2018: Received approval for manufacturing and marketing of a veterinary drug in Japan.

History
ISHIHARA SANGYO KAISHA, LTD.