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.

Kenichi Tanaka
President & CEO

Group Companies

- **[Belgium]**
  - ISK BIOSCIENCES EUROPE N.V.
    Administration of agrochemicals business in Europe; manufacture and sale of agrochemicals
  - BELCHIM CROP PROTECTION N.V.
    Sale of agricultural materials

- **[U.S.A.]**
  - ISK AMERICAS INCORPORATED
    Administration of U.S. subsidiaries
  - ISK BIOSCIENCES CORPORATION
    Administration of agrochemicals business in Americas; manufacture and sale of agrochemicals
  - ISK BIOCIDES, INC.
    Manufacturer and sale of wood preservatives
  - ISK ANIMAL HEALTH, LLC
    Manufacture and sales support of animal health products
  - ISHIIHARA CORPORATION (U.S.A.)
    Sale of inorganic chemical products
  - SUMMIT AGRO USA, LLC
    Sales of agricultural materials and manufacture of agrochemicals

- **[Brazil]**
  - ISK BIOSCIENCES DO BRASIL DEFENSIVOS AGRICOLAS LTDA.
    Agrochemical registration and market development in Brazil

- **[Taiwan]**
  - ISK TAIWAN CO., LTD.
    Sales of inorganic chemical products

- **[Korea]**
  - ISK KOREA CORPORATION
    Sales of inorganic chemical products
  - ISK BIOSCIENCES KOREA LTD.
    Sales of organic chemical products

- **[Thailand]**
  - ISK BIOSCIENCES (THAILAND) LTD.
    Agrochemical registration and market development in Thailand

- **[India]**
  - ISK BIOSCIENCES INDIA PVT. LTD.
    Agrochemical registration and market development in India

- **[China]**
  - ZHEJIANG ISK & TAURUS CHEMICAL CO., LTD.
    Sales of organic chemical products
  - ISK (SHANGHAI) CHEMICAL CO., LTD.
    Manufacture and sales support of organic chemical products

- **[Philippines]**
  - AVC CHEMICAL CORP.
    Sales of agrochemicals

- **[Japan]**
  - ISK BIOSCIENCES K.K.
    Sales of agrochemicals
  - ISHIIHARA TECHNO CORPORATION
    Trade in organic and inorganic chemical products
  - FUJI TITANIUM INDUSTRY CO., LTD.
    Manufacture and sale of titanium dioxide, electronic materials, etc.
  - ISK ENGINEERING PARTNERS CORPORATION
    Construction
  - ISHIIHARA SANRIO KASIMA, LTD.
    Manufacture and sale of industrial gases
  - ISHIIHARA KOSAN CO., LTD.
    Asset management
  - GENOMIDEA INC.
    Pharmaceutical R&D and development of gene therapy technologies
  - HOKUSAN CO., LTD.
    Manufacture and sale of agrochemicals

- **Non-consolidated subsidiary company**
- **Non-equity method affiliated company**
- **Consolidated subsidiary company**
- **Equity method affiliated company**

Inorganic Chemicals
Organic Chemicals
White Color
Environment
Agriculture
Medicine
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.

Innovating to brighten people’s lives with “white.”

Inorganic Chemicals

Titanium dioxide is a typical raw material of white pigments. It has a wide range of applications in everyday life such as paints, inks, plastics, papers, and cosmetics.

Inorganic Chemicals

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

Electro-conductive Materials

Our proprietary technologies including ultrafine 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

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

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 ultrafine particle and functionality enhancement techniques.

Protecting the Soil, Water and Natural Environment

ISK endeavors to reduce environmental footprints by developing soil improvement agents and environmental cleaning materials through the employment of our ultrafine particle technology for enhancing the functionality of titanium dioxide by-products such as gypsums and iron oxides.

Environmental Products

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 ultrafine particle and functionality enhancement techniques.

Environmental Products

TIPAQUE Yellow

TIPAQUE Yellow

Featuring high levels of safety, weather resistance, thermal resistance, and chemical resistance, our yellow pigments are used in various applications including paints and plastics.

Functional Materials

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

Functional Materials

Electro-conductive Materials

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

Electro-conductive Materials

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

Electro-conductive Materials

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

Heat Shield Materials

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

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Gypsum-based soil improvement agents reform sludge and soft soil at construction sites into a state safe for and friendly to creatures more rapidly, contributing to soil recycling.

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Innovating in food and health.

Make food richer and make life healthier

For contribution to day-to-day better food and healthier life, we are going ahead with research and development without tiring. To supply safely and stably every food stuff and to accelerate evolution of medical science, our agrochemicals and our new medicines get deeply involved in food and health, respectively. ISK brings about innovations in these fields with its proprietary technologies and bolster up the world.

Agrochemicals

Capitalizing our world-class technical skills cultivated for more than half a century, we have gained high reputation worldwide by developing agrochemicals with high safety and low environmental loads.

Animal Health Products

We develop and supply innovative veterinary drugs to protect the lives and health of pets.

Pharmaceuticals

Utilizing organic synthesis technologies cultivated in agrochemical development, we continue to expand into new business areas—developing, manufacturing, and selling drug substances that become pharmaceutical active ingredients, organic intermediates that are the raw materials of drugs, and reagents that support pharmaceutical research.

Supporting the Stable Supply of Agricultural Products

Since the introduction of herbicide from overseas about 70 years ago, we have been providing agrochemicals that are friendly to humans and the environment with world-class development capabilities to support stable supply of agricultural products to consumers around the world.

Herbicides

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

Fungicides

Our highly original-agents have safety profiles to the environment, animals and human and are widely used as main control agents for fungal diseases caused by oomycetes, ascomycetes, etc.

Insecticides and Nematicides

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

Biological Insecticides

Our natural enemy biological products eliminate spider mites and other microorganisms, and our microbial products control sciriont rot. 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 lightening environmental impact.

protecting the Health of Pets

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

Veterinary Drugs

We sell our drug substance, used for the world’s first anti-pancreatitis agent for dogs, to the company with whom we jointly developed it in Japan. In the United States and Europe, we are working independently to obtain approval of the final product of the agent for commercialization. Our goal is to provide superior products that meet the needs of pet owners and animal health workers.

Contributing to Advancements in Medicine

Our active pharmaceutical ingredients and organic intermediates provide the basis for pharmaceutical development, and our research reagents lead to breakthroughs in biotechnological and pharmaceutical research. All are highly acclaimed both in Japan and overseas. We are playing an important role in the pharmaceutical field to maintain people’s health.

Organic Intermediates

Our organic intermediates and synthesis technologies are contributing to the development of new medicines including CPI-pyridine derivatives, which significantly help pharmaceuticals exhibit physiological activities.

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.

Research Reagents

We sell research reagents including HVJ envelope vector, a reagent for gene functional analyses, to domestic and overseas universities and pharmaceutical companies.
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 added value products that contribute to the environment and energy saving by utilizing core 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 that aims to develop highly effective agrochemicals that are very safe and environmentally compatible. In recent years the division has also been developing products for the medical field and animal health care.

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.

Pharmaceuticals Plant

Manufactures and supplies to pharmaceutical companies the active pharmaceutical ingredient of cevimeline hydrochloride, a medication for the treatment of the patients with Sjögren’s syndrome, with symptoms including dry mouth, etc., which is caused by salivary and tear gland dysfunctions. Manufacturing is approved by the U.S. Food and Drug Administration (FDA).

Functional Materials Plant

Manufactures ultrafine titanium dioxide, high-purity titanium dioxide, photocatalytic titanium dioxide, white conductive powder, and other functional materials that are closely integrated into people’s lives.

Agrochemicals and Organic Intermediates Plant

Primarily engages in the commercial production of herbicides, insecticides, fungicides, and other agrochemicals. Also manufactures organic intermediates for pharmaceuticals and agrochemicals that are supplied to other countries.

Pharmaceuticals Plant

Manufactures and supplies to pharmaceutical companies the active pharmaceutical ingredient of serotonin hydrochloride, a medication for the treatment of the patients with Sjögren’s syndrome, with symptoms including dry mouth, etc., which is caused by salivary and tear gland 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 assist in environmental improvement. Also, the effluent from each plant is treated properly according to the law.

ISK’s Quality Management System

Our Yokkaichi Plant has got ISO 9001 certification in April 1996 and continues to carry out Quality control meeting at the highest levels. Periodic QMS internal audits are conducted, and a QMS committee and quality management committee are in place as part of a management system that ensures high quality.

Research and Development
Compatibility of Innovation and Environmental Protection

Nothing can ever make up for a degraded environment.

Producing technological innovation while protecting the environment is the perpetual theme of the chemical manufacturer. In light of unfortunate past results of putting economic activities first, the company has established an environmental protection division at each business location and administrative division as part of a complete environmental protection system. By actively working to protect the environment we continue to move forward as a strong and responsible chemical company.

History

Hiroichiro Ishihara established in Osaka Nanyo Mining Partnership Co., a firm dedicated to iron mining in Indonesia. (Based on the Malaya Peninsula.)

Sep. 1920

Created the firm Ishihara Sangyo Marine Partnership. Opened the Kishu Mine (operated until the mid-1940s) in Miike Province.

Oct. 1926

Begun building Yokkaichi Plant in Miike Province. (Copper refinery and sulfuric acid plants were completed in January 1927.)

Jun. 1940

Transferred shipping operations to Nikon Marine Co., Ltd., renamed the firm Ishihara Sangyo Kaisha, Ltd.

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Jun. 1924

Renamed the Firm Ishihara Sangyo Marine Partnership. Reorganized the Firm into a limited company. Opened the Kishu Mine (operated until the mid-1940s) in Miike Province.

Sep. 1920

Established ISHIHARA SANGYO KAISHA, LTD.

May 1924


Incorporated June 1, 1949.

Basic Philosophy

We contribute to social development, protection of life and environmental preservation.

We respect shareholders, customers, suppliers, local communities and employees.

We abide by laws and regulations; maintain transparency in business activities.

Company Profile

Company name
ISHIHARA SANGYO KAISHA, LTD.

Head office
3-15 Edobori 1-chome, Nishi-ku, Osaka 550-0002

Founded
September 10, 1920

Incorporated
June 1, 1949

Business locations
Osaka Head Office, Central Research Institute, Yokkaichi Plant, Tokyo Branch, Chuik Branch, Sapporo Sales Office, Sendai Sales Office, Fukushima Sales Office, Argentina Branch, Singapore Branch, Beijing Representative Office

Promoting Responsible Care and Sharing Information

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

Proper Management of Chemical Substances

We create and maintain Safety Data Sheets (SDSs) for all products and intermediates to consolidate hazard and toxicity information. We are diligent about keeping environmental protection and occupational safety and health well.

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 to visitors and serves to raise environmental awareness among employees.

We release NOx concentrations in exhaust gas and other figures subject to water quality regulations.

Every year we participate in local river and roadside cleanup activities organized by a neighborhood association.

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ISK's Environmental Management System

Our Environment, Safety & Health Management Committee deliberates on the best policies for environmental conservation in general, occupational safety and health, and chemical substance management. 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. It carries out environmental management activities and is working to make further improvements.

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.

Code of Conduct

- At Ishihara Group, we strictly observe laws, regulations, social norms and Company rules, and 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.