

Functional Colorants Segment

<https://www.hodogaya.co.jp/english/products/segment01/>



Three Strengths

Ability to embody the needs of customers in the global arena by making full use of the DNA of the Group including our organic composite technology

- Lineup that makes it possible for total solutions via all the various types of OLED materials
- Aluminum coloring dyes leading global market share
- The world's "Only One" hair dyes

Description of Business

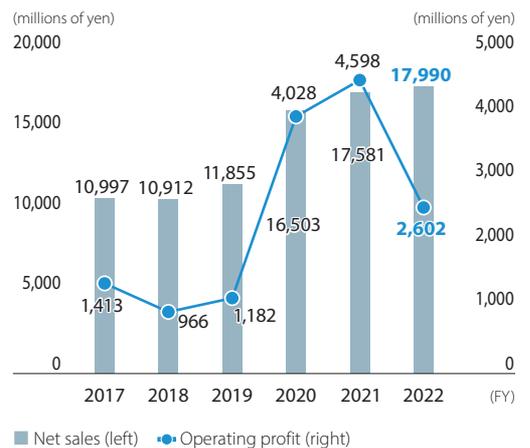
- OLED Materials**
Demand for OLED materials is growing because of their use in displays for smartphones, tablets and smartwatches, and they are also expected to be introduced for TVs and automotive applications. The materials for PCR diagnostic kits have been rated highly, including reporter, quencher dyes, and probes. The materials were developed independently by the Hodogaya Chemical Group as an application of OLED material technology, and the Group is expanding into new fields.
- Imaging materials**
They are essential for copiers and printers to function, helping to enhance precision in the office automation environment.
- Dyes and colors**
Our products, developed with unique technologies, are highly regarded as high-quality products in Japan and worldwide. (Mainly used for aluminum coloring, stationery ink, hair dyes, color filters, etc.)
- Natural food dyes**
Play an important role in making food appear more appetizing by adding color to food products. As a pioneer in this field, the Hodogaya Chemical Group contributes to culinary performances that enhance the enjoyment and deliciousness of food. Natural dyes are also used for coloring mainly home appliances, expanding its environmentally friendly applications.

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| Basic Strategies in SPEED 25/30 | OLED materials Expand sales through new product development and further globalize operations by establishing new overseas bases | Aluminum coloring dyes Expand sales through development of environmentally friendly products | Bio business expansion Expand from diagnostics applications to therapeutic applications |
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Progress of the Mid-term Management Plan

- Sales of OLED materials are increasing due to the expansion of applications for OLED displays and their adoption in new products. We will work to further enhance our research and development as competition with competing companies is highly intense, and high performance and low cost are required.
- While demand fell for the materials for PCR diagnostic kits, developed as an application technology for OLED materials, we will work to expand from diagnostic pharmaceuticals to other medical fields.
- We are stepping up efforts to bring environmentally friendly products for aluminum coloring dyes to the market.
- In this segment, we will reorganize certain product lines and accelerate efforts to build a new portfolio.

Net sales / Operating profit



Related Group company: **SFC CO., LTD.**

Description of business: Manufacturing and sales of OLED materials and bio materials

Location: 89, Gwahaksaneop 5-ro, Ochang-eup, Cheongwon-gu
Cheongju-si, Chungcheongbuk-do, Korea 28122
Webpage: https://sfc-dye.com/?page_id=18997



Specialty Polymers Segment

<https://www.hodogaya.co.jp/english/products/segment02/>



Ability to deliver specialty products to global markets by making full use of our phosgenation technology, etc.

Urethane materials that make full use of world-leading organic composite technology

Environmentally friendly waterproofing materials free of specified chemical substances

Polymer materials, pharmaceutical intermediates and specialty fiber materials leading global market share

Description of Business

● Polymer materials

Polymer materials consist mainly of a material called PTG, which is required to give urethane ductility and elasticity (characteristics like those of rubber). Urethane is used in many fields, including clothing, automotive parts and leisure products. In addition, we are focusing on Bio-PTG, whose main raw materials were switched from petroleum-derived to plant-derived, as a product that possesses a quality similar that of the traditional PTG but is environmentally friendly.

● Construction materials

The mainstay of construction materials is urethane waterproofing. Our urethane waterproofing materials are used widely to waterproof the roofs of office buildings, schools, and multi-story parking buildings of large-scale retail facilities.

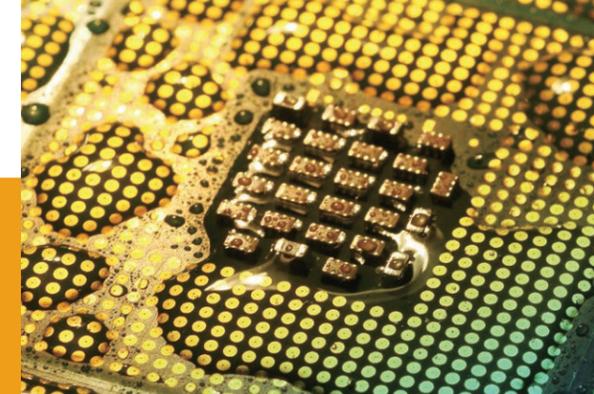
● Specialty chemicals

Specialty chemicals include intermediates and additives, fully using our organic composite technology and unique phosgenation technology accumulated over many years. We supply products tailored to customers' specific requests in various fields such as pharmaceuticals and cosmetics.

Three Strengths

Basic Chemicals Segment

<https://www.hodogaya.co.jp/english/products/segment03/>



Creativity to explore new applications based on the hydrogen peroxide production technology accumulated over many years

Experience and knowledge on hydrogen peroxide production accumulated over 50 years

R&D expertise to produce peracetic acid, veterinary medicines, and various derivatives

Creativity to explore new applications such as soil improvement to protect the global environment

Three Strengths

Description of Business

● Hodogaya Chemical has been engaged in the development, manufacturing and sales of hydrogen peroxide and its derivatives for over 50 years.

● Hydrogen peroxide decomposes into water and oxygen, and this property supports our everyday lives as clean and environmentally friendly products for a variety of uses. Hydrogen peroxide has been used for paper pulp bleaching and industrial chemicals, but in recent years, we have aggressively expanded the sales into new fields such as veterinary medicines.

● Derivatives of hydrogen peroxide include sodium percarbonate and peracetic acid. Sodium percarbonate is used for bleaching agents and detergents. As for peracetic acid, we were the first in Japan to obtain approval for the production for use in food production applications, and we are working to accelerate its use.

Basic Strategies in SPEED 25/30

Launch new polyols into the market

Promote green chemistry by switching all PTGs to plant-derived

Develop and capture orders for new customized products using phosgene derivatives

Basic Strategies in SPEED 25/30

Hydrogen peroxide Expand for semiconductors and new fields

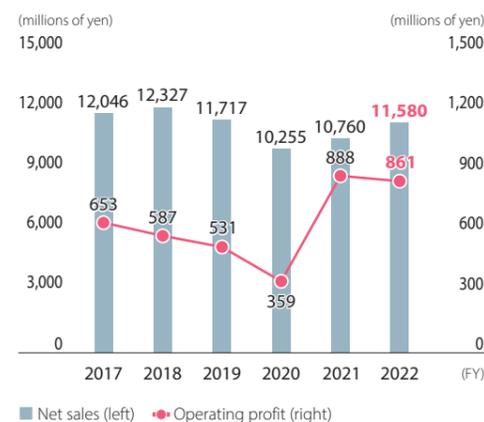
Peracetic acid Expand food additive uses

Hydrogen Conduct basic studies in preparation for the advent of a hydrogen society

Progress of the Mid-term Management Plan

- For polymer materials, we will promote green chemistry, such as further development of environmentally-conscious biobased PTG, which is a raw material of urethane, and launch new polyols.
- Sales of materials are performing well in the construction materials business. We will aim to increase sales of the products launched in 2019.
- The specialty chemicals business saw robust sales of products for pharmaceuticals and release agents. We are planning to increase the capacity of our facilities.

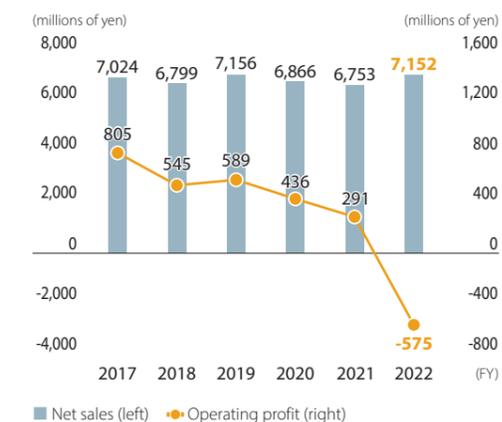
Net sales / Operating profit



Progress of the Mid-term Management Plan

- Hydrogen peroxide sales increased mainly owing to price pass-throughs, although demand for pulp and paper and industrial chemicals applications declined.
- We believe the impact of soaring raw material and fuel prices will continue. However, we aim to improve business earnings by promoting various cost reductions and to acquire new customers and increase sales of peracetic acid for food additives, potentially opening up new markets.

Net sales / Operating profit



Related Group company: **Hodogaya Construction Products Co., Ltd.**
Description of business: Manufacturing and sales of construction products

Location: 1-9-2, Higashi-Shimbashi, Minato-ku, Tokyo 105-0021 Japan
TEL: +81-3-6852-0478 (Main switchboard)
Webpage: <http://www.hodogaya.co.jp/hcp/> (Japanese only)



Related Group company: **KATSURA SANGYO CO., LTD.**
Description of business: Sales and marketing of chemical products

Location: 1-9-2, Higashi-Shimbashi, Minato-ku, Tokyo 105-0021 Japan
TEL: +81-3-6852-0490 (Main switchboard)
Webpage: <http://www.katsura-ks.co.jp/> (Japanese only)





Agro-Science Segment

<https://www.hodogaya.co.jp/english/products/segment04/>



Ability to develop attractive products based on our formulation techniques

Herbicides for home gardening leading market share in Japan

Strength to constantly propose new products to the market

R&D expertise to develop areas other than herbicides such as agricultural oxidizers

Description of Business

- The products offered by the Agro-Science segment are used in a wide range of fields, from controlling weeds to insect pest management and environmental conservation for cropland, living environments, railways, forests, and golf courses.
- Using a variety of intermediates, primarily those developed in-house, we have continued to develop new formulations that combine ease of use with safety and that are tailored to the needs of the location and the customer. In particular, we have a world-leading market share in herbicides used for home gardening and in green space management.
- In order to improve soil environments that have deteriorated as a result of weather conditions, and other factors, we are manufacturing oxidizers for use as soil improvement agents that can lead to stable production of crops, and working on developing this market.

Three Strengths

Basic Strategies in SPEED 25/30

Reinforce expansion into the field of herbicides for non-croplands

Expand use to the field of agricultural materials made from hydrogen peroxide and its derivatives

Reinforce production capabilities for agricultural material products

Progress of the Mid-term Management Plan

- Sales declined due to a drop in demand for herbicides for home gardening, but we will work to introduce attractive products to regain market share while maintaining profitability.
- In the field spanning the Basic Chemicals and Agro-Science segment, we will jointly develop a new composite agricultural materials involving oxygen supply materials using hydrogen peroxide from Hodogaya Chemical and compost from Asahi Agria Co., Ltd., and will be looking into commercialization going forward as important measures for new business areas: environmentally friendly agricultural materials in the business strategy roadmap of the Mid-term Management Plan SPEED 25/30.

Net sales / Operating profit



Related Group company: **HODOGAYA UPL Co., Ltd.**
 Description of business: Manufacturing and sales of agricultural chemicals
 Location: 1-9-2, Higashi-Shimbashi, Minato-ku, Tokyo 105-0021 Japan
 TEL: +81-3-6852-0500 (Main switchboard)
 Webpage: <http://www.hodogaya-upl.com/> (Japanese only)



Related group company: **HODOGAYA AGROTECH Co., Ltd.**
 Description of business: Manufacturing and sales of agricultural chemicals
 Location: 1-9-2, Higashi-Shimbashi, Minato-ku, Tokyo 105-0021 Japan
 TEL: +82-3-6852-0510 (Main switchboard)
 Webpage: <http://www.hodogaya-agrotech.co.jp/> (Japanese only)



Logistics Segment

<https://www.hodogaya.co.jp/english/products/segment05/>



Ability to transport security and safety based on its expertise on handling hazardous substances and chemicals

Hazardous substance handling know-how accumulated as Japan's first manufacturer of caustic soda

Storing and transporting services that draw on the locational advantages of Yokohama, Koriyama, and Nanyo

Provide door-to-door services tailored to our customers' needs

Three Strengths

Description of Business

- The logistics business of the Hodogaya Chemical Group has been handling hazardous substances and chemicals for over a century. Drawing on this extensive expertise, it offers services highly regarded by customers in various fields beyond the chemical industry.
- We have large-scale facilities in Yokohama, Koriyama and Nanyo. In particular, the Yokohama Branch is conveniently located close to Japan's leading port of Yokohama and is used by many customers as a base for imports and exports. Our Koriyama and Nanyo distribution sites also offer storage and transportation services optimized for chemical products, heavy cargo, machinery and plants.
- In October 2021, the Nanyo Branch launched a business involving the storage and heating business handling ISO tank containers for hazardous and toxic materials, which is unique in Japan.

Basic Strategies in SPEED 25/30

Provide and reinforce storage services in a wide range of fields

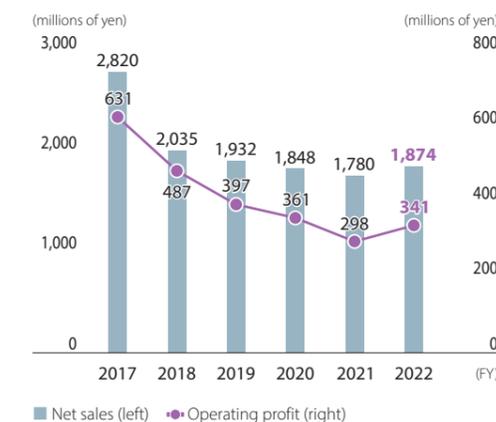
Further expand the international logistics business

Expand ISO tank container storage, heating business

Progress of the Mid-term Management Plan

- The volume of exports handled remained solid with the resumption of economic activities in Japan and overseas.
- As a logistics business for chemical manufacturers, we started operating an ISO tank container storage business in October 2021, utilizing our expertise in handling hazardous and toxic materials. We are taking the initiative to acquire more customers.

Net sales / Operating profit



Related Group company: **Hodogaya Logistics Co., Ltd.**
 Description of business: Warehousing and logistics

Location: 1-9-2, Higashi-Shimbashi, Minato-ku, Tokyo 105-0021 Japan
 TEL: +81 3-6852-0520 (Main switchboard)
 Webpage: <http://www.hodogaya.co.jp/hlc/> (Japanese only)

