**Foundation to Development of Domestic** 

Agricultural Chemicals (1949 to 1968)

cal fungicide ASOZIN in 1959 and KITAZIN® in 1965.

Proposal of the Strategy for Sustainable Food Systems, MIDORI (Innovation that will

Issue of residual organic mercury agricultural chemicals (Transition to low-residue agricultural chemicals)

Rice overproduction and acreage reduction policy

1969

1980

Growing demand for agricultural chemicals for fruits and vegetables

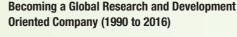
Declining rate of food

self-sufficiency

## Leaping Forward to Become the Top Manufacturer of Agricultural Chemicals in Japan (1969 to 1989)

During the period of rapid economic growth in Japan, the agricultural workforce rapidly declined due to changes in the industrial structure, which increased the need for labor-saving in agriculture. We developed the herbicide SATURN®, which was used in 50.4% of the paddy fields in Japan in 1974, becoming the first major product to support the growth and foundation of us.

However, owing to the policy of reducing the amount of land devoted to rice cultivation and the sharp appreciation of the yen, our performance remained sluggish after peaking in 1981.



Issue of residual

agricultural chemicals

While the agricultural chemicals market in Japan become sluggish, stable food supply became a serious issue as the global population exploded. Our early efforts in research and development of products for the global market bore fruit in the 1990s with significant sales growth in the U.S. and Southeast Asia. In 2011, the field crop herbicide AXEEV® was launched and continues to drive our

Declining domestic

population Aging of farmers and severe

shortage of successors

## **Becoming a Cutting-Edge Chemical Manufacturer** (2017 to Present)

(Billions of yen)

1959

180

120

60

1949 Established as Ihara Agrochemical Co., Ltd.

After WWII, the low productivity of farming became an issue. Therefore, we

began to manufacture and sell agricultural chemicals to help resolve food inse-

curity. We established ourselves as an agricultural chemical manufacturer in

Japan such as by launching the first domestically produced agricultural chemi-

Launch of the first domestically produced fungicide for paddy rice ASOZIN (active ingredient name: MAS)



1961 Kikugawa Experimental Farm opened Kogota Factory and Tatsuno Factory completed 1962 1965 Ihara Chemical Industry Co., Ltd. established Current IHARABRAS S.A. INDUSTRIAS QUIMICAS established (Brazil) Launch of fungicide for paddy rice KITAZIN® P (active ingredient name: IBP)

Launch of herbicide for paddy rice SATURN® (active ingredient name: Thiobencarb)



1978 K-I CHEMICAL U.S.A. INC. established

> K-I CHEMICAL RESEACH INSTITUTE CO., LTD. established (current Chemical Research Institute, New Molecule Research Center)

> > Entered a period of sluggish performance after peaking in 1981



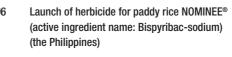
Launch of plant growth regulator VIVIFUL® (active ingredient name: Prohexadione-calcium)



Herbicide resistant weeds

become an issue

Launch of cotton herbicide STAPLE® (active ingredient name: Pyrithiobac-sodium) (U.S.)



Launch of microbial pesticide ECOHOPE® (active ingredient name: Trichoderma atroviride)

Mississippi Research Station opened



2011 Launch of field crop herbicide AXEEV® (active ingredient name: Pyroxasulfone) (Australia)



Iharanikkei Chemical (Thailand) Co., Ltd. established

We integrated business with Ihara Chemical Industry in 2017 in order to create new value. We have strengthened our organization for the agricultural chemicals business that manages everything from chemical discovery, manufacturing and sales together with the fine chemicals business. By utilizing technologies, we will continue to promote the development of products that meet new customer needs, and accelerate new initiatives for realizing a sustainable society.

> FY2024 **Business integration with Ihara Chemical** Net sales

> > 161.0

billion yen

FY2024

Launch of herbicide for paddy rice EFFEEDA® (active ingredient name: Fenguinotrione)

Industry Co., Ltd.

Acquisition of herbicide for paddy rice bensulfuron-methyl business in Asia Pacific region excluding China

Launch of fungicide for paddy rice DISARTA® (active ingredient name: Dichlobentiazox)

**Acquisition of Asiatic Agricultural** Industries Pte. Ltd. (AAI) shares

Overseas sales 97.6 billion yen Acquisition of Agricore Corporation shares

Establishment of the new Chemical Research Institute



Acquisition of GRA INC. shares

Net sales Overseas sales

Note: The launch of each product is indicated based on the time of agricultural chemical registration.







1949 1969 1981 1995 2011 2017 2024 (Year)

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