Agricultural Chemicals and Agriculture-Related Business (Japan)

Top Japanese Market Share

One-Shot Herbicides for Paddy Rice

Weed control is essential in paddy rice cultivation to help rice plants grow and ensure stable yields. Through many years of research and development.



Kumiai has developed a number of herbicides that effectively control weeds and have minimal impact on crops, the environment, and organisms. In the field of one-shot herbicides, which have long-lasting efficacy and are highly favored by growers, we have begun marketing mixed formulations that include several proprietary active ingredients, and have held the top share of the Japanese market for three consecutive years.



Net sales 39.3 billion ven





Japanese market share for one-shot herbicides for paddy rice No.



Usage area of MAMETSUBU® 115,000

Agricultural Chemicals and Agriculture-Related Business (Overseas)

Supporting Overwhelming Growth

AXEEV®

AXEEV® is a herbicide that can be used on major crops world-wide, such as soybean, corn, wheat, and sugarcane, and is effective on a wide range of weeds



ranging from grasses to small-seeded broadleaf weeds. In recent years, the emergence and spread of herbicide resistant weeds have become a major issue worldwide. Because AXEEV® is highly effective against these weed species, it is widely accepted around the world as a product to combat such herbicide resistant weeds. Since its launch in 2011, sales have grown steadily and it has become an essential product at overseas agricultural sites. It is registered as an agricultural chemical in 23 countries (as of February 2024) and sold through partner companies worldwide.



Net sales 73.1 billion ven



AXEEV® growth rate (CAGR) 26%



Global business development/ lumber of countries where sold Over **50** countries

Labor-Saving Formulation

MAMETSUBU®

MAMETSUBU® is a laborsaving formulation for paddy rice that we developed independently. Whereas standard granules are 0.8 to 1.2 mm in size, MAMETSUBU® granules are 3 to 8 mm and float on the surface of water, diffusing the active ingredients throughout the paddy field. MAMETSUBU® can be applied without any need for people to enter the paddy field. As MAMETSUBU® is compatible



with various application methods, it greatly contributes to labor-saving and simplified weed control, and is indispensable for sustainable agriculture. In recent years, application of MAMETSUBU® by agricultural drones and radio-controlled boats has become established, achieving further labor-saving.

EFFEEDA®

To New Markets

EFFEEDA® is a herbicide for paddy rice sold in Japan and South Korea. Given its efficacy and safety for crops, we are promoting development



with a view to its application as a field crop herbicide, such as for wheat in Europe. We have already filed an application for agricultural chemical registration with the authorities and expect registration in 2029. Europe is the world's leading wheat producing region, with 35 million hectares under cultivation (EU). By entering this huge market, we aim to maximize the application of EFFEEDA® and contribute to global food security through the supply of Kumiai Group's products.

years, we manufacture materials in upstream industries of the value chain and are engaged in custom manufacturing of fine chemical products. The following are examples of some product use cases.

Fine Chemicals Business

Highway onstruction materials

Expanded polystyrene is used in areas where a reduced load and soil pressure are required. such as using as earth fill on soft ground or in areas prone to landslides. This construction method does not require large construction machinery, reduces environmental impact, and offers the benefits of shorter construction periods and lower costs. As such it is garnering attention, being used in many situations

> Related product: Expanded polystyrene (EPS)

Surfacing for running tracks and tennis courts

Amine curing agent is used for tracks at athletics stadiums, flooring for bullet trains, and wheels and other parts of roller coasters, contributing to improved safety durability, and comfort.

In the Fine Chemicals Business, applying the organic synthesis technology that we have cultivated over many

Related product: Amine curing agent

Car tires

High-performance fibers are used in tires,

aircraft parts, firefighting protective gear.

flame resistance, toughness, and

chemical resistance, are one of these

other substances, is used as a raw

material.

Terephthaloyl chloride, produced using

advanced chlorination technologies and

Related product:

Terephthaloyl chloride

cables, and more. Aramid fibers, with their

Custom manufacturing business, fulfilling your desire to create



Smartphone circuit boards

We manufacture raw materials for highperformance resins used in electronic substrates and aircraft components. By adjusting heat resistance, strength (high elasticity), and other properties according to the purpose, we can offer products that are ideal for the intended application

> Related product: Bismaleimide

Net sales 22.5 billion ven

Intermediate for gastrointestinal drugs We manufacture high-quality chemicals

that enable the production of pharmaceuticals. For example, parachlorobenzoyl chloride is used as a raw material for gastrointestinal medicine, contributing to the maintenance of a safe and healthy lifestyle.

> Related product: Parachlorobenzoyl chloride



Read related articles on the Company 's official website.

https://www.kumiai-chem.co.jp/products/chemical_products/familiar/ (in Japanese)



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