

## Products and Services

Kumiai Group makes the most of our R&D capabilities to resolve various social issues and improve quality of life by providing innovative products and services. We will endeavor to meet everyone's expectations.

### Agricultural Chemical Products for Japan

#### EFFEEDA®

EFFEEDA® is a versatile herbicide for paddy rice developed by Kumiai that is highly effective against a wide variety of weeds, including herbicide resistant weeds and hard-to-control broadleaf weeds. On the other hand, it is extreme safety for paddy rice, and it is both effective and safe with good versatility, allowing it to be safely used for feed rice and high-yield rice in addition to ordinary cultivars. EFFEEDA® has given us the top share of one-shot herbicides for paddy rice for two consecutive years starting in 2021.



#### MAMETSUBU

MAMETSUBU is a water-surface application formulation for paddy rice that we developed independently. While standard granules are 0.8 to 1.2 mm in size, MAMETSUBU granules are as large as 3 to 8 mm, and when applied to paddy fields, they float on the surface of the water and disintegrate quickly, diffusing the active ingredients throughout the paddy field. MAMETSUBU's major features include the fact that it can be applied in a labor-saving manner without entering the paddy field, which is increasingly important due to the aging of farmers and the consolidation of fields, and that it can be used by various means regardless of the application method.



### Agricultural Chemical Products for Outside Japan

#### AXEEV®

AXEEV® is an herbicide that can be used on major crops worldwide such as corn, soybean, wheat, and sugarcane, and is effective on a wide range of weeds from grasses to small-seeded broadleaf weeds. In recent years, the emergence and spread of herbicide resistant weeds has 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, it has grown steadily and has become an essential product at agricultural sites outside Japan. As of January 2023, it is registered in 21 countries, and is sold through partner companies worldwide.



#### NOMINEE®

In 1996, NOMINEE® was first launched in the Philippines as an herbicide for paddy rice. In India, which is now a major market, removal of weeds that grow with rice has long been done by hand, and has become a major burden on agricultural work. When it was introduced in India for the first time as a foliar-applied rice herbicide, which killed weeds that had already grown, it became a sensation as it greatly reduced the labor as use of NOMINEE® spread. Surplus labor in rural areas shifted to industrial fields in India, which helped accelerate economic growth and reduced poverty.



### Fine Chemical Products (KUMIAI CHEMICAL INDUSTRY)

#### Urethane-Related Products

Our Urethane-related products are used as a raw material for various urethane products. For example, it is used as a raw material for tennis courts and running tracks at athletics stadiums as well as machine parts such as in roller coasters and escalators. It is applied to a wide range of fields including waterproofing materials that are essential for improving and maintaining the safety, durability, and comfort of common facilities including buildings



like apartments and shopping malls as well as in highways. It is highly evaluated as a raw material for parts that can be used in severe usage environments such as steel plants, semiconductor factories, and oil fields in the Americas, Europe, and Asia.

#### Custom manufacturing for Fine Chemicals

By utilizing the organic synthesis technology that we have established over the years, we have been entrusted with manufacturing fine chemicals including the development of optimal manufacturing processes. We own multipurpose plants capable of handling small-to large-scale work, as well as large-scale clean disposal treatment facilities, allowing us to meet various needs including intermediates for pharmaceuticals and agricultural chemicals and high-performance chemical products.

### Fine Chemicals (Group Companies)

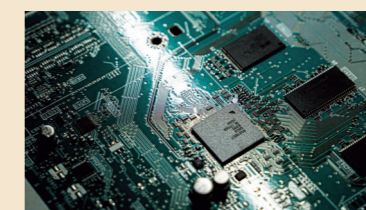
#### Chlorinated derivatives

Kumiai Group operates one of the leading Chlorinated-derivative business in Japan. We are Japan's largest supplier of terephthaloyl chloride and isophthaloyl chloride as raw materials for aramid fibers which are highly functional materials. Also we export our product to manufacturers outside Japan.



#### Bismaleimide monomers

Bismaleimide monomers are raw materials for resins with strength and heat resistance that help support our daily lives by being transformed into various products such as electronic substrates and aircraft components. We are the No. 2 supplier in Japan and No. 5 in the world for bismaleimide monomers responding to global demands.



#### Creping control agents

Creping control agents are used for the manufacture of household paper (tissue, toilet rolls, and paper towels), and play an important role in the quality and production efficiency of household paper and are indispensable agents for household paper production. We have the largest share for the delivery of creping control agents in the Japanese market.

