

# Main Products and Services

One of the materialities of the Nissan Chemical Group is the “provision of new value for helping to enrich people’s lives.” In response to the ever-changing needs of society, we will advance R&D on products and services that contribute to solving social issues.

Each product and service name is color-coded to indicate the business under its jurisdiction

- = Chemicals
- = Performance Materials
- = Agricultural Chemicals
- = Healthcare
- = Planning and Development Division

## Supply of environmental-friendly products and services

### ● AdBlue®\*1

High-grade urea solution used in purification systems to meet diesel vehicle emission regulations.



### ● Venus® Oilclean

Decomposition agent for oils and fats in wastewater. It uses novel microorganisms to powerfully break down oils and fats to reduce waste.

### ● HI-LITE®

It is used for sterilization and disinfection of swimming pools and water purification tanks, and thus contributes to public hygiene.



### ● Inorganic Materials (CCS/CCUS applications)

We engaged in initiatives related to CCS (CO<sub>2</sub> capture and storage) and CCUS (CO<sub>2</sub> capture, utilization, and storage) applications, as a way to develop applications toward carbon neutrality.

### ● ROUND NOZZLE® ULV5

Utilization of the ROUNDUP® MAXLOAD dedicated nozzle contributes to shorter spraying time and reduced CO<sub>2</sub> emissions.



### ● Lithium-ion Secondary Battery Materials

We develop materials for lithium-ion batteries, such as LIBSOLVER™, a slurry additive, that contribute to improve battery characteristics and productivity.

## Contribution to food issues

### ● GRACIA®

GRACIA®, a pesticide developed in-house, is fast-acting on a wide range of crop pests and has little impact on honeybees which are useful insects.



### ● Fluralaner (for livestock)

Fluralaner, which was invented by Nissan Chemical, is used as an active ingredient in EXZOLT®\*2, an animal health product for chickens, cattle, and sheep, and contributes to maintaining the health of livestock.



## Contribution to improvement of the quality of life

### ● HI-LITE®

Some grades of HI-LITE® have received standard certification as raw materials for disinfectants for drinking water in developing countries and other regions where drinking water sanitation is inadequate.



### ● Fluralaner (for pets)

Fluralaner, which was invented by Nissan Chemical, is used as an active ingredient in BRAVECTO®\*2, an animal health product for dogs and cats. These products are highly safe and acts rapidly against major species of fleas and ticks and has a longer insecticidal effect than existing products as its effects remains even when highly diluted.



## Contribution to smart society

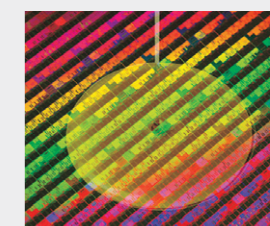
### ● SUNEVER®, Rayalign®

These are polyimide-based liquid crystal alignment materials used to coat the surface of the outer glass panels to align liquid crystal molecules in a certain direction.



### ● ARC®\*3

ARC® is an anti-reflective coating developed for semiconductor lithography. It is used to coat the part under the photoresist, to resolve a number of issues with lithographic exposure such as reflection from varying substrate levels. This makes it possible to significantly reduce the device failure rate.



## Contribution to health issues

### ● Active pharmaceutical ingredients

We manufacture APIs which was discovered by Nissan Chemical, generic APIs, and commissioned products (Finetech®) and provides them to various pharmaceutical manufacturers. The level of quality of our products, as well as our compliance with cGMP, is highly regarded and contributes to the maintenance of people’s health.



### ● Oligonucleotide Drug Discovery Platform

Nissan Chemical’s oligonucleotide drug discovery platform, consisting of (1) modified nucleic acid MCEs, (2) single-stranded heteroduplex oligonucleotides, and (3) in silico sequence design algorithms, provides antisense oligonucleotide therapeutics with high efficacy and safety.

### ● Cell culture material

The cell culture material “FCeM® series” realizes suspension and dispersion culture of adherent cells, and provides a culture environment that reduces stress and damage to cells during culture.



\*1 AdBlue® is a registered trademark of the Verband der Automobilindustrie (VDA).

\*2 EXZOLT® and BRAVECTO® are registered trademarks of Intervet International B.V., a subsidiary of Merck & Co., Inc.

\*3 ARC® is a registered trademark of Brewer Science, Inc.