INK CONTAINING WATER-SOLUBLE MATERIALS

Manufacturing SPAN generates a large amount of hydrogen sulfide, making it difficult to mass produce SPAN. ADEKA is further studying mass production of SPAN using its technology to create a water-soluble ultraviolet (UV) curing material that employs a proprietary water-soluble molecular structure to eliminate the use of organic solvents. By leveraging ADEKA’s organic synthesis expertise, the product realizes high water resistance that is difficult to achieve with conventional water-soluble materials. Patterning can be achieved using only water.

ADEKA is committed to reducing the burden on people and the environment through the development of products that meet the needs of diverse applications such as for use in printing inks, coating agents, electronics materials, and displays.

Features of Water-Soluble UV Curing Material

- VOCs released into air during curing
- Water vapor released during drying (less VOC)

Organic solvent UV curing material

Common UV curing material

Water-soluble UV curing material

Advantages
- Uses no organic solvents, so it is friendly to people and the environment
- Highly water soluble and superior oxygen barrier
- Patterning can be performed with only water
- Can be hardened using LED light source

Creating new value in the life sciences field


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Creating Highly Safe, Selective, and Original Agrochemicals

Nihon Nohyaku has direct sales networks in countries in North America and Europe, as well as in other major agricultural producers including Brazil, India, Taiwan, Vietnam, and Colombia. Overseas sales now account for more than 50% of its consolidated net sales.

Nihon Nohyaku believes that safe agrochemicals provide selective efficacy on targeted pests with low toxicity and volume. For example, Nihon Nohyaku’s insecticide APPLAUD (diproplatin) has a killing effect against plant hoppers, which are rice paddy pests, and whiteflies and scale insects that harm cotton and fruits. However, it does not affect their natural predators such as birds, frogs, and spiders. Nihon Nohyaku has created such highly safe, selective, and original agrochemicals, enabling it to establish a unique position in the agrochemical market.

Creating New Agrochemicals Every Three Years

Nihon Nohyaku has an ongoing goal of launching new agrochemicals every three years. The company strives to achieve this goal by employing all-around screening* to ensure that valuable compound efficacies are not overlooked in drug discovery research. In addition, Nihon Nohyaku is actively pursuing exchanges with external organizations, such as pursuing open innovation with universities and public research institutions.

The global population is projected to rise to 9.7 billion people by 2050. The need for new agrochemicals is increasing in an effort to secure sustainable food production and quality. However, only the major U.S. and European multinational corporations and a few Japanese companies can develop new agrochemicals, which require advanced synthesis and screening technology together with extensive expertise. Nihon Nohyaku is generating international interest in its advanced agrochemical development capabilities.

Product Development and Technical Sales Working Together to Solve the Issues of U.S. Customers

Nichino America, Inc. was founded in 2001 for the sales and support of Nihon Nohyaku’s products in the U.S., which is a major agricultural producer and the world’s largest crop exporting country. Technical sales representatives identify issues with existing disease protection through their discussions with customers and provide customized protection programs, thereby building trust with customers.

Feasal farmers in the state of Georgia have struggled for many years with soil-borne white mold, which has led to significantly reduced crop yields. Nichino America’s product development team collaborated with the University of Georgia to conduct numerous field trials that established the efficacy of Convoy as a fungicide for white mold. The company made a proposal to a major peanut farmer in the state of Georgia to apply Convoy twice at 30-day intervals, and this successfully stabilized crop yields.

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