



Agrochemicals Business

We will expand our product lineup with new agrochemical related products.

Expanding the variation of agrochemicals

Continuing the development of agrochemicals is essential to stable food supplies

As one aspect of our development activities, our division is currently moving forward with the development of a spiracle-blocking insecticide. Because it acts differently than conventional agrochemicals, a spiracle-blocking insecticide can also be used against insect pests that have developed a resistance to chemical pesticides. In addition, as there are few restrictions on its use, from when to how much, a spiracle-blocking insecticides are compatible with integrated pest management (IPM) programs.

As the issue of chemical-resistant insects is growing more serious today, we are committed to safeguarding food production through the development of an easier-to-use spiracle-blocking insecticide. In addition, we will continue to move forward with the development of agrochemicals that can address various different situations and requirements.



Spider mite

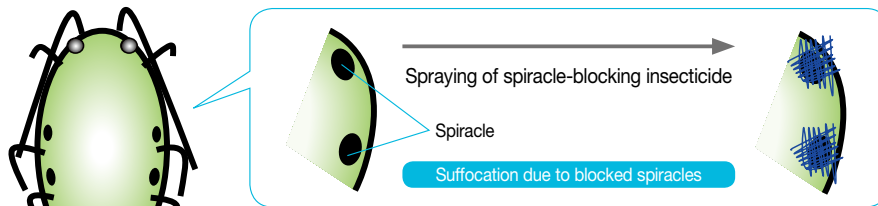


Aphid

Spider mites and aphids are pests that cause serious damage to various vegetable plants and fruit trees

WEB <http://www.nipponkayaku.co.jp/english/business/agrochemicals/index.html>

■ Mechanism of spiracle-blocking insecticide action



Insects have small openings on the surface of their body called spiracles through which they breathe. A spiracle-blocking insecticide blocks the spiracles of insects cutting off their ability to breathe.

An Example of Global "sukima" ideas



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Developing a spiracle-blocking insecticide targeting chemical resistant pests

To date several spiracle-blocking insecticides have been available commercially, but while they showed good efficacies against chemical-resistant insect pests, these agents can only control aphids or spider mites. In addition, existing spiracle-blocking insecticides also faced challenges in terms of pricing and ease of use because in most cases solid results could not be achieved without high concentrations. We are now looking to prove that solid results can be achieved

even in low concentrations by developing new spiracle-blocking insecticides that are highly effective against both spider mites and aphids. Currently we are evaluating a variety of food products and food additives and are conducting research on new pest control products that meet end user needs.

Moving forward, we will continue to pursue research and development activities so that more farmers continue to select and use our pest control products.