Entrapment® Insecticide powered by Rhexalloid™ Technology

Fact Sheet

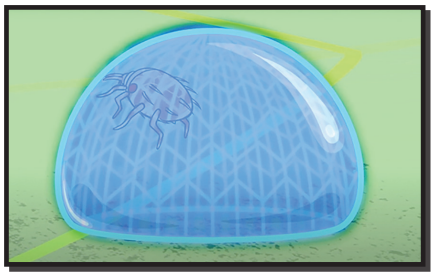
WHAT IS ENTRAPMENT?

Entrapment® is a non-systemic, contact insecticide that uses a physical mode of action to control specific insect and mite pests by transforming every spray droplet into a potential trap. Entrapment tightly anchors spray droplets to the leaf surface which capture small insects or mites (less than 4 mm) that come into direct contact with the droplet.

HOW DOES ENTRAPMENT WORK?

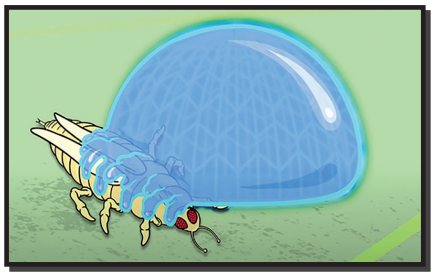
Entrapment's Rhexalloid Technology harnesses the power of hydrocolloids to create a complex molecular matrix within every spray droplet that physically controls pests upon contact in three ways. Peak performance is seen 5 - 7 days post application. Pests seen on plants in this time frame have been controlled by Entrapment droplets and terminated.

ENGULF



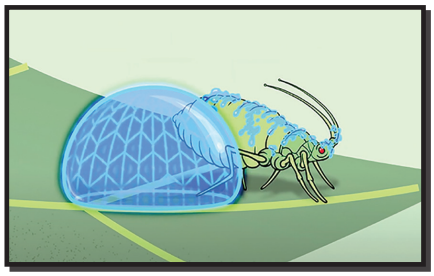
Very small sized insects & mites (<1mm; 1st & 2nd instar) are engulfed by the droplets and suffocated.

TRAP



Slightly larger insects (1–3mm; 3rd to 5th instar) are trapped by the droplets. Once an appendage or wing makes contact with a droplet, the insect is stuck to the droplet and unable to break free.

IMMOBILIZE



Insects large enough (3–4mm) to overcome a droplet's adhesion become coated with the drop's contents. The coating on the pest picks up debris as it moves about the leaf surface. Once the coating dries, the insect becomes immobilized.

BENEFITS

- Broadly registered by EPA for use on most fruit, nut, vegetable, and row crops.
- Unique spectrum of activity, providing effective control of aphids, thrips, psyllids, whiteflies, scales, leafhoppers, mites and certain plant bugs, chinch bugs and small caterpillars.
- Exempt from tolerances, with 0 Day PHI and 4 hour REI.
- No phytotoxicity
- Can be tank mixed with a broad range of insecticides, fungicides, PGRs and foliar fertilizers.
- Low potential for resistance development, valuable tool in all insect resistance management (IRM) strategies.
- Soft on most beneficials, compatible with a wide range of insect pest management (IPM) strategies.
- 4 precise formulations
- EPA label registered under the new Endangered Species Act (ESA) guidelines

PRODUCT TYPES & PERFORMANCE

Entrapment insecticides have been rigorously tested at leading ag research facilities across the U.S.

FV

30%

better aphid on blueberry control than leading chemical standard

Fruit & Vegetable: optimized for the specific needs of high value crops such as fruits, vegetables, and nuts.

RC

12.6%

better plant bug on cotton control than leading chemical standard

Row Crop: targets pests on large acreage row crops using low spray volumes such as wheat, cotton, and sorghum.

SP

40.9%

better whitefly on greenhouse tomato control than leading chemical standard

Specialty: OMRI listed for the specific needs of organic crops, greenhouses, turf and ornamentals, and golf courses.

CK

34%

better NOW on almond control than leading chemical standard

Caterpillar Killer: targets hard to kill pests such as navel orangeworm and codling moth, as well as whiteflies and mites.

*results may vary depending on external factors