

DuPont™ Asana® XL

insecticide

Proven performance at a great price

When it comes to protecting your crops you have more options than ever before. This is particularly true when you consider all of the pyrethroid insecticides that are on the market today. You have your choice of products you've relied on for years, new or "improved" versions of older products and generic products. When making your decision, keep in mind that newer isn't necessarily better. In the long run it makes more sense to stick with what works best.

All pyrethroids aren't created equal

All pyrethroids have the same mode of action and work on insects the same way:

- Control insects through their direct contact with the spray solution and/or by the insect feeding on parts of the treated plant.
- Affect the insect's nervous system so that body functions fail and disorientation occurs. Symptoms include: hyperexcitation, tremors, convulsions, lethargy and paralysis.
- Protect crops when the insects stop feeding, shortly after contact with the spray. Some insects may die slowly, and maximum control may not be seen until 48-72 hours after exposure.

However, just because they all work in a similar way, doesn't mean all pyrethroid products are identical. To see the difference, you have to take a closer look — under the microscope, inside the jug and out in the field.

The difference you can't see

If you could see the chemical structures of the products that are available today, you wouldn't see much difference — the molecular formulae are similar, it's the way the pieces are put together that makes a product unique. The fact is, most pyrethroids have been around for decades. Any new products are simply reworkings of old active ingredients. These "new" compounds, called resolved *isomers*, share the same molecular formula as the original, only the three-dimensional chemical structure has been optimized.

Nearly all commercial pyrethroids are composed of two or more predominant isomers, usually only one of which controls insects. For maximum efficiency, safety and activity, researchers strive to refine the active ingredient down to a single, *resolved* isomer.

Right from the start:

DuPont™ Asana® XL is one of the few products on the market that has been resolved to a single predominant isomer. Its structure is unique and offers benefits that no other brands can claim.



Know what's in the jug

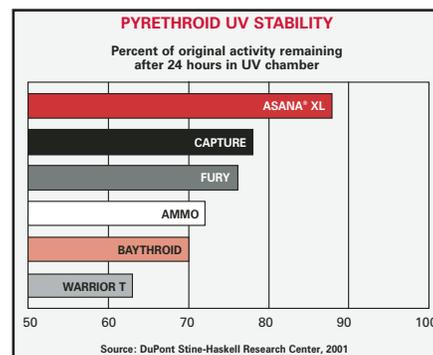
Only Asana® XL is formulated with cottonseed oil (CSO). With this unique CSO formulation, Asana® XL resists wash off and provides superior UV stability — even under intense sunlight.

For added convenience, Asana® XL can be used in many different tank mixes. In fact, laboratory evaluations confirm that Asana® XL will not have compatibility problems with most other pesticides that are likely to be tank mixed in a water carrier.

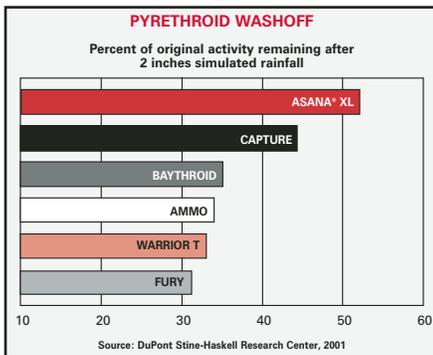
Reap the benefits in your field

Asana® XL delivers reliable control of key pest Lepidoptera caterpillars, beetles, grasshoppers and other major pests. More importantly, with its unique CSO formulation, Asana® XL holds up better and remains active longer to deliver the most control for your money:

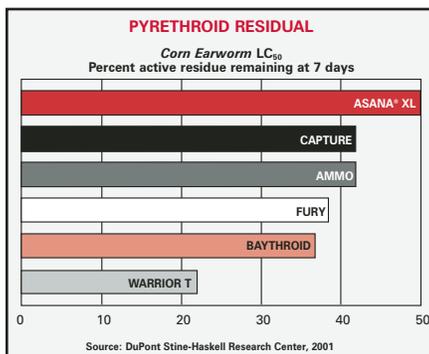
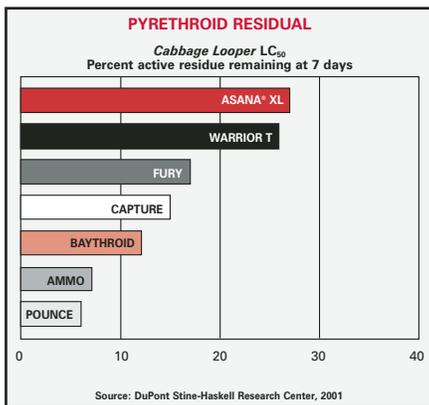
- Stands up to high light intensity and high temperatures.



- Resists washoff from rainfall or irrigation.



- Provides the longest lasting residual control compared to most other pyrethroids.



Pyrethroid insecticides

Common name	Brand names
Esfenvalerate	Asana® XL
Bifenthrin	Capture, Brigade, Empower, Discipline
Cyfluthrin	Baythroid, Renounce, Tempo, Aztec
Cypermethrin	Ammo, Up-Cyde, Fury*, Mustang*, Mustang Max*, Demon
Cyhalothrin	Karate**, Warrior**, ProAxis†, Silencer**
Permethrin	Pounce, Ambush, Waylay, Perm-Up
Deltamethrin	Decis

* Fury, Mustang and Mustang Max are zeta- cypermethrin.
** Karate, Silencer and Warrior are lambda cyhalothrin.
† ProAxis is gamma-cyhalothrin.

- Legislative and regulatory support:** Aggressively and successfully defending product labels with the Environmental Protection Agency to ensure that you have access to tools that work.

- Service and product support:** Expertise in the field to make sure you get the control you've come to expect from each and every DuPont crop protection product.

For more information

Put the proven performance of Asana® XL to work for you. Please contact your local DuPont crop protection retailer or representative if you have any questions or to learn more about DuPont™ Asana® XL insecticide. And be sure to visit our Web site at asanaxl.dupont.com.

Asana® XL: Proven results. Great price. Only by DuPont.

Finally, there's more to DuPont™ Asana® XL than meets the eye. When you purchase or recommend Asana® XL and other DuPont products you also benefit from the company's commitment to delivering high quality products to meet the needs of growers today, and tomorrow:

- Research and development:** Continuing to bring new brands and solutions to market to help protect your crops from the latest threats.

Ambush, Ammo, Asana® XL, Aztec, Baythroid, Brigade, Capture, Decis, Discipline, Empower, Fury, Karate, Mustang, Mustang Max, Perm-Up, Pounce, ProAxis, Renounce, Tempo, Silencer, Up-Cyde, Warrior and Waylay are restricted use pesticides.

This reference guide is not intended as a substitute for the product label for the products referenced herein. Product labels for the above products contain important precautions, directions for use and product warranty and liability limitations that must be read before using the product. Applicators must be in possession of the product label(s) at the time of application. Always read and follow all label directions and precautions for use when using any pesticide alone or in tank mix combinations.

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