



Control That Cares — Powerful Protection for Plants and Pollinators

What is Altus[®] Insecticide?

Altus is a novel insecticide that can be used on a wide range of plants anytime during the production cycle for targeted control of aphids, whitefly and difficult to control scale insects. With Altus, growers can utilize long-lasting drench applications for more difficult crops (such as poinsettias and mums) and containers (such as hanging baskets).

With an excellent non-target safety profile, Altus offers flexible and long-lasting performance and is compatible with honeybees, bumble bees and many beneficial insects in all production ornamental settings.

How Does Altus Work?

Altus contains flupyradifurone, a butenolide chemistry that targets the insect nervous system and is a great fit for integrated pest management programs.

Product Attributes

The active ingredient in Altus is inspired by the natural product stemofoline, a derivative from the Asian plant *Stemona japonica*. Flupyradifurone is the first insecticide with a butenolide chemical structure. The butenolide structure dictates a novel binding site in the insects' nervous systems making Altus chemically unique from neonicotinoid chemistries.

General Use Notes

IRAC Code: 4D

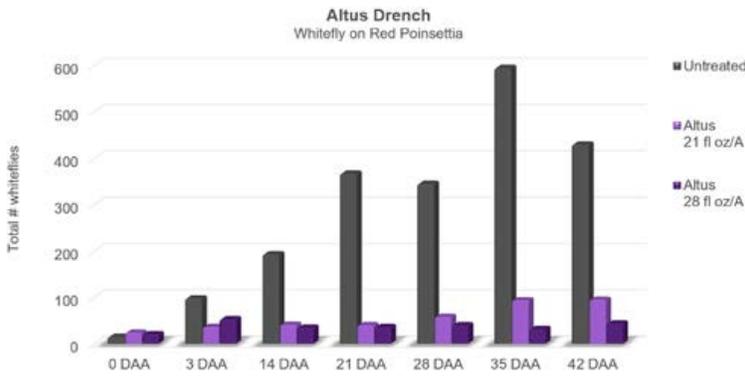
REI: 4 hr (12 hr in CA)

Product Attributes:

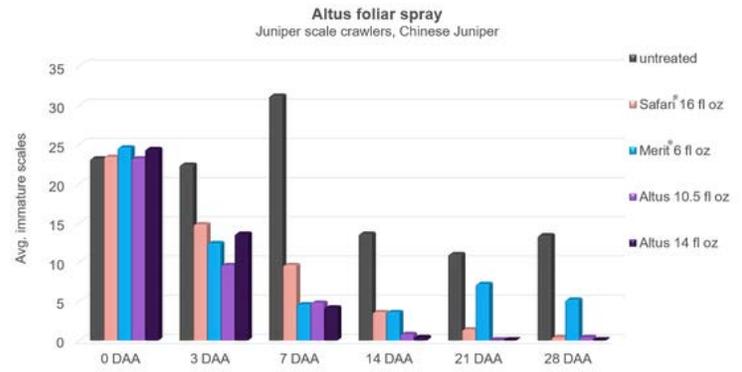
- No bee box! Low impact on honeybees, bumble bees and many more beneficial arthropods.
- **Broad-Spectrum Control:** Effective against aphids, whiteflies, leafhoppers, mealybugs, psyllids, thrips (suppression and more).
- **Flexible Rotation Partner:** Ideal for resistance management.
- **Systemic & Translaminar Activity:** Protects new growth and undersides of leaves.
- **Low Use Rates:** Economical, yet powerful performance.
- No application timing restrictions. Labeled for use before, during and after plant bloom.
- Excellent residual control up to 4-6 weeks.
- Rapid and strong feeding cessation effect.
- Can be used as a foliar spray or drench.
- One product treats all greenhouse crops, including vegetable transplants.
- Classified as a reduced risk product by the EPA.

Use Sites: Greenhouses, Nurseries, Interiorscapes, Landscapes

Personal Protective Equipment (PPE): Long-sleeved shirt, long pants, shoes plus socks, and chemical resistant gloves (See label for details) are required



Bayer internal trial: IE09EITR0E5SF1



Bayer internal trial: IE16USAKYIEHJ2

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Rotation for aphid management

Application	Solution	IRAC Group	Restricted Entry Interval (REI)	Rate/100 Gallons	Notes
1	Talstar Select®	3	12 hr	Foliar 8-10 fl. oz.	For immediate knock down of aphids.
2	Kontos®	23	Foliar 24 hr Drench 0 hr	Foliar or drench 1.7-3.4 fl. oz.	14-28 day. Requires up to 14 days to see full efficacy of treatment.
3	Altus®	4D	4 hr*	Foliar 7-10.5 fl. oz. Drench 3.7 fl. oz	2 weeks of control 4-6 weeks of control.
4	Ventigra®	9D	12 hr	Foliar 1.4 fl. oz.	Protects older leaves for up to 21 days; reapply to protect new growth or rotate to new insecticide.
5	Aria®	29	12 hr	Foliar or drench 0.7-2.1 fl. oz.	Stops adult and immature aphid feeding within one hour, eliminating them in three days.
6	AzaGuard®	UN	4 hr	Foliar 10-15 fl. oz.	Treat hot spots as necessary.



Aphids are capable of live birth. Daughter aphids may be birthed fully gravid (vivipary). The prolific reproduction of aphids is why multiple MOAs should be used to manage aphid populations.
Photo by MedievalRich.

*12 hr REI for California.