Mainspring® GNL is a broad-spectrum, non-neonicotinoid insecticide that, when used preventively, keeps pest populations from building to damaging levels by stopping insect feeding upon ingestion. It can be applied as a spray or drench, and protects plants through both systemic and translaminar activity. The systemic activity of Mainspring GNL provides extended protection, saving time and labor on repeat applications.

**Resistance Management and Effectiveness**

Mainspring GNL is powered by cyantraniliprole, a novel active ingredient in a recently added chemistry class (IRAC Group 28), which makes it an effective tool for plant protection and resistance management strategies.

Mainspring GNL quickly paralyzes insects so they stop feeding, which limits disease transmission and unsightly insect damage to foliage and flowers. Depending on the target pest, maximum mortality can be achieved in two to seven days.

### Worker Safety
- Short, four-hour restricted-entry interval (REI)
- No REI if product is soil injected/drenched
- No signal word
- Registered by U.S. EPA under its Reduced Risk Program *
- Minimal personal protective equipment for early entry:
  - Long sleeve shirt, long pants, shoes and socks

### Versatility Benefits
- Compatible with many biological control agents
- Use sites/Application methods:
  - Spray
  - Drench
  - Chemigation
  - Ebb-and-flood irrigation
  - In-ground soil drench
  - Bark treatment

### Spray Translaminar Activity
- Penetrates plant cuticle to form reservoir within plant tissue
- 14-21 days of protection

### Drench Systemic Activity
- Taken up by roots and moves throughout plant canopy
- 8-10 weeks of protection or longer with higher use rates

### Recommended Use Rates
- 4-8 fl. oz. per 100 gal.
- Higher use rates (up to 16 fl. oz.) may be used if needed for longer control (i.e. outdoor nursery production)
- 8-12 fl. oz. per 100 gal.
- For large containerized or in-ground grown plants: 0.125-0.25 fl. oz. of product per foot of height or inch of trunk diameter at breast height (DBH)
CONTROL OF FOXGLOVE APHID (AULACORTHUM SOLANI) ON SALVIA

**Treatments**
- Foliar spray applied twice on a 14-day interval March 13 & 25, 2015
- Drench applied March 13, 2015

*CapSil® 6 fl. oz. /100 gal. added to treatments

DAT = Days after treatment

CONTROL OF WHITEFLY (BEMISIA TABACI BIOTYPE Q) ON HIBISCUS

**Treatments**
- Hibiscus plants grown in 4-inch containers
- Drench treatment: 3 fl. oz.
- Spray Treatment: Twice on 14-day interval

*Counts made on two leaves per plant

For more information about how Mainspring GNL can shield your greenhouse and nursery crops, please visit [www.GreenCastOnline.com/MainspringGNL](http://www.GreenCastOnline.com/MainspringGNL)

*A reduced risk pesticide use is defined as one which may reasonably be expected to accomplish one or more of the following: (1) reduces pesticide risks to human health; (2) reduces pesticide risks to non-target organisms; (3) reduces the potential for contamination of valued, environmental resources, or (4) broadens adoption of IPM or makes it more effective. Mainspring GNL qualifies under one or more of the above criteria.*