# APHID CONTROL

## *Chrysopa carnea & Chrysoperia rutilabris*
## *Green Lacewing Eggs*

**Product:** Green Lacewing eggs are available in 3 different formats.
Bulk Eggs are shipped as loose eggs in small plastic containers in increments of 1,000, 5,000 and 10,000.
Hangable Eggs are shipped as eggs glued onto perforated cards in increments of 5,000 or 10,000 as perforated cars with either 30 or 60 hang able units.
Stringy Eggs are shipped as eggs on jute strings with 2,000 stalked eggs.
The adult lacewings of most species do not kill pest insects, but survive on pollen and nectar only. The adult stage is a mating and egg-laying stage. The offspring/larvae do the work. The female lays eggs on foliage on top of hair-like stalks or filaments in clusters of 10 to 40. The eggs are green in colour and turns white grey as the hatching starts. After a few days the eggs will hatch, and larvae will emerge (2mm in length) known as the "aphid lion" due to its voracious appetite. The aphid lion vigorously attacks its prey, injecting paralyzing venom, and then draws out the body fluids of its helpless victim. It is known to be cannibalistic if no other food source is available. During the 2-3 weeks in this stage, it will devour up to 200 pests a week. It will then pupate by spinning a cocoon with silken thread, and approximately 5 days later the adult lacewing emerges to repeat the life cycle. Depending on climate conditions, the adult will live for up to 4 to 6 weeks. A food source is necessary, or they will leave the area. Since one female can deposit up to 200 eggs, use Beneficial Insect Food (available from NIC), to provide the adults with the necessary nutrition required to reproduce.

**Target:** Lacewings attack insects and insect eggs such as aphids, small caterpillars, mites, whitefly, scale, mealybug, thrips leafhoppers, and other soft-bodied insects.

**Release:** Release immediately (larvae are cannibalistic) morning or afternoon. If not, keep the eggs warm at temperatures between 24-28$^{O}$C (75 to 80$^{O}$F), out of direct sun and heat. Maintain humidity at 30-50%. At 28$^{O}$C (80$^{O}$F) the larvae should emerge from eggs within 2 to 4 days from time of delivery.
Loose eggs in containers, sprinkle the contents over the entire target area. For egg cards, tear at perforations, hang in foliage. For stringy eggs, place jute string in target area or gently pull apart strings and place into crop.

**Rate:** Interior - 1,000 eggs - 46.5m$^2$ (500ft$^2$), Gardens - 1,000 eggs per 232m$^2$ (2500ft$^2$), Field Crops - 5000 eggs per 1 acre (0.40ha). Repeat applications every 2 weeks for up to 4 times depending on pest level.

**Notes** Larvae and adults 16-28$^{O}$C (60-80$^{O}$F), RH 20-80%. 10$^{O}$C (60$^{O}$F) minimum temperature required for eating and egg-laying.
Lacewing larvae and adults are also available through NIC.
Ants will eat lacewing eggs and protect honeydew producing pests from lacewing larvae. Ask us about ant controls

**Please let us know within 24 hours of receipt if there are any problems with your Live Insect Order.**

**Unleash the Buzz! Click Here for Insects**

For further Information Contact: **NATURAL INSECT CONTROL**, 3737 Netherby Road, Stevensville, Ontario, L0S 1S0
905-382-2904 (Tel); 905-382-4418 (Fax); info@naturalinsectcontrol.com
For further Information on all NIC Beneficial Insects go to **www.naturalinsectcontrol.com**

# APHID CONTROL

*Chrysopa carnea & Chrysoperia rutilabris*
*Green Lacewing Larva*

**Product:**
The adult lacewings of most species do not kill pest insects, but pollen and nectar only. The adult stage is a mating and egg-laying stage. The offspring/larvae do the work. The female lays eggs on foliage on top of hair-like stalks or filaments in clusters of 10 to 40. The eggs are green in colour and turns white grey as the hatching starts. After a few days the eggs will hatch, and larvae will emerge (2mm in length) known as the "aphid lion" due to its voracious appetite. Similar in appearance to an alligator with pincers, the aphid lion vigorously attacks its prey, injecting paralyzing venom, and then draws out the body fluids of its helpless victim. It is known to be cannibalistic if no other food source is available. During the 2-3 weeks in this stage, it will devour up to 200 pests a week. It will then pupate by spinning a cocoon with silken thread, and approximately 5 days later the adult lacewing emerges to repeat the life cycle. Depending on climate conditions, the adult will live for up to 4 to 6 weeks. A food source is necessary, or they will leave the area. Since one female can deposit up to 200 eggs, use Beneficial Insect Food (available from NIC), to provide the adults with the necessary nutrition required to reproduce.

**Target:** Lacewings attack insects and insect eggs such as aphids, small caterpillars, mites, whitefly, scale, mealybug, thrips leafhoppers, and other soft-bodied insects.

**Release:** For best results, release immediately in early morning or late afternoon. Turn the container sideways and slowly rotate to migrate the larvae off the sides and top/bottom of the container and into the media. Distribute the larvae by opening and tapping out the media and larvae onto the plant surface. Distribute the larvae into known pest infested areas as well as a smaller amount onto plants that are around the known infested area. Keep in mind the larvae unit is a combination of young larvae and eggs that are ready to hatch. Larvae are cannibalistic thus; larvae unit contains both larvae and ready to hatch eggs.

**Rate:** For interior use 500 per 500ft$^2$ (46.5m$^2$). In gardens use 500 per 2500ft$^2$ (232m$^2$), and for field crops use 5000 per 1 acre (40ha).

**Notes:**

- Larvae and adults 16-28$^O$C (60-80$^O$F), RH 20-80%. 16$^O$C (60$^O$F) minimum temperature required for eating and egg-laying.
- Lacewing eggs and adults are also available through NIC.
- Ants will eat lacewing eggs and protect honeydew producing pests from lacewing larvae. Ask us about our ant control. products.

**Please let us know within 24 hours of receipt if there are any problems with your Live Insect Order.**

**Bug Out CLICK HERE to take your new insect friends to their new home**

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# APHID CONTROL

## *Chrysopa carnea & Chrysoperia rutilabris*
## *Green Lacewing Adults*

**Product:** Green Lacewing Adults - shipped in containers of 100 or 500. Adults are green, fragile, approximately 2cm in length, with a small head, large eyes and transparent net wings. Most species of the adult lacewing do not kill pest insects, but subsist on pollen and nectar. It is the offspring that do the job. The female lays her eggs on foliage, each on top of hair-like filaments. After a few days the eggs will hatch and a tiny larva emerges which is also known as the "aphid lion" because of its voracious appetite. Similar in appearance to an alligator with pincers, the aphid lion vigorously attacks its prey, injects a paralyzing venom, and draws out the body fluids of its helpless victim. It is known to be cannibalistic if no other food source is available. During the 2-3 weeks in this stage, it will devour up to 200 pests a week. It will then pupate by spinning a cocoon with silken thread, and approx. 5 days later the adult lacewing emerges to repeat the life cycle. Depending on climatic conditions, the adult will live for about 4-6 weeks. A food source is necessary or they will leave the area. Since one female can deposit up to 200 eggs, use Beneficial Insect Food (available from NIC), to provide the adults with the necessary nutrition required to reproduce.

**Target:** Lacewings are a beneficial predatory insect that attacks insects and insect eggs such as aphids, small caterpillars, mites, whitefly, scale, mealybug, thrips leafhoppers, and other soft-bodied insects.

**Release:** Adults should be released immediately in late afternoon on the day received since they have already laid numerous eggs inside the container, they may be close to hatching. We **do not** advise refrigerating the adults if immediate release is not possible! When the shipment arrives, moisten the accompanying sponge in water and replace it. To release, remove the top screen and use a piece of cardboard to regulate amounts released throughout the target area. The eggs already deposited in the shipping container can be collected with a piece of organdy and distributed in the release area. Inside the container, you may notice a light brown material which is simply a food source.

**Rate:** The number of adults to release depends on the degree of infestation and the size of the area to be treated. 100 adults is sufficient for an average size area.

**Notes:**

- 60o-80o2 F (16o-28oC), with a relative humidity of 20-80%. 60oF (16oC) is the minimum temperature required for eating and egg-laying.
- Lacewing eggs and larvae are also available through NIC. Please ask us.

**Please let us know within 24 hours of receipt if there are any problems with your Live Insect Order.**

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