



## **DEBUG TURBO**

### **APPLICATION RECOMMENDATION FOR CITRUS FRUITS\***

(Such as Oranges, Tangerines, Grapefruits, Lemons & Limes)

**General:** DEBUG TURBO is a neem based (containing about 67% Neem Extract with Azadirachtin, and 20% Synergist) insecticide, anti-feedant, repellent, and growth regulator. We recommend the use of DEBUG TURBO by itself with no additional pesticides unless the insects reach economically damaging levels, in which case organic pesticides may be used in conjunction with DEBUG TURBO. Apply even if there is no insect problem, as a preventative. Apply early morning or late evening (less than 95°F).

**For the Control of:** Flower Thrips, Orchid Thrips, Leafminers, Root Weevils, Scale insects, Pacific & Two Spotted Spider Mites, Rust mites, Grasshoppers, and Fruitflies.

**Sprayer Requirements:** The sprayer pressure should be enough to get complete coverage of the foliage including the underside of the leaves. Water used for spraying should have a pH of about 5.5 for optimum results. Please use a buffer like citric acid to bring the pH to the desired level.

#### **APPLICATION RATES, DILUTION AND TIMINGS**

**THRIPS:** One or two **DEBUG TURBO** applications between May and July may be required to prevent rind blemish damage on red or white grapefruit varieties. Calibrate and arrange nozzles to deliver thorough distribution and treat as many trees as this volume of spray allows. We recommend complete drenching of leaves and branches for maximum effect.

Mix 1-3/4 to 2 quarts of DEBUG TURBO in 250 gallons water.

**LEAFMINER:** Application should begin when about 30% of the flush leaves show active mines to maximize the susceptibility of larvae and thus have the greatest impact on CLM populations. To treat smaller trees with commercial application equipment including handguns, mix the per acre rate for mature trees in 250 gallons of water. The rate shown should treat several acres of small trees. Recommended Controls for Citrus Leafminer (Nonbearing/Young Bearing Citrus). Follow with a second application in about 7 days.

Mix 1-3/4 to 2 quarts of DEBUG TURBO in 250 gallons water. Do not apply if temperature exceeds 94°F.

**ROOT WEEVILS** **Apply at early detection in April.** Rates for pesticides are given as the maximum amount required to treat mature citrus trees



unless otherwise noted. To treat smaller trees with commercial application equipment including handguns, mix the per acre rate for mature trees in 250 gallons of water. Calibrate and arrange nozzles to deliver thorough distribution and treat as many acres as this volume of spray allows. We recommend complete drenching of leaves and branches for maximum effect. Follow with a second application with in about 7 days.

Mix 1-3/4 to 2 quarts of DEBUG TURBO in 250 gallons water.

### **SCALE INSECTS**

For effective suppression, most scale species should be in young nymphal stages, since pesticides are not very effective against eggs, large nymphs, or adults. Since scale insects are immobile, direct contact is essential. Spray volume, ground speed, nozzling and location of the pest populations should all be emphasized to get maximum target coverage. Rates for pesticides are given as the maximum amount required to treat mature citrus trees unless otherwise noted. To treat smaller trees with commercial application equipment including handguns, mix the per acre rate for mature trees in 250 gallons of water. Calibrate and arrange nozzles to deliver thorough distribution and treat as many acres as this volume of spray allows. We recommend complete drenching of leaves and branches for maximum effect. Follow with a second application with in about 7 days.

Mix 1-1/2 to 2 quarts of DEBUG TURBO in 250 gallons water.

### **OTHER INSECTS**

Apply at early detection. Rates for pesticides are given as the maximum amount required to treat mature citrus trees unless otherwise noted. To treat smaller trees with commercial application equipment including handguns, mix the per acre rate for mature trees in 250 gallons of water. Calibrate and arrange nozzles to deliver thorough distribution and treat as many acres as this volume of spray allows. We recommend complete drenching of leaves and branches for maximum effect. Follow with a second application with in about 7 days.

Mix 1-3/4 to 2 quarts of DEBUG TURBO in 250 gallons water.