

APPLICATION BOOKLET

Debug® Turbo

PLEASE READ THIS BOOKLET CAREFULLY BEFORE USING DEBUG TURBO

KEEP OUT OF REACH OF CHILDREN

PLEASE REFER TO THE PRIMARY LABEL ON THE FRONT OF THE CONTAINER FOR FIRST AID INSTRUCTIONS

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Personal Protective Equipment (PPE) required for this product are long-sleeve shirt and long pants, socks, shoes, and chemical resistant gloves.

CAUTION

Harmful if absorbed through skin or if inhaled. Avoid contact with skin, eyes or clothing. Avoid breathing spray. Causes moderate eye irritation.

USER SAFETY RECOMMENDATIONS

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
Users should remove contaminated clothing and wash clothing before reuse. Wash thoroughly with soap and water after handling.
Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate. This product is toxic to fish and aquatic invertebrates

WARRANTY

AGRO LOGISTIC SYSTEMS, INC. warrants that material contained herein conforms to the description on the label and is reasonably useful for the purposes referred to in the directions for use. Method of application and timing, weather, cultural practices, insect problem, crop condition, and incompatibility with other chemicals not specifically recommended in the use of this product are beyond the control of the seller. It is the manufacturer's intention that the buyer assumes risk of use, storage, or handling of this material not in strict accordance with directions given herein.

DIRECTIONS FOR CROP APPLICATION

PREVENTATIVE APPLICATION: APPLICATION RATES ARE FOR ONE ACRE EXCEPT AS NOTED.

As a preventative application mix 8 to 24 Fl. Oz. of Debug Turbo in 50 to 100 gallons water or sufficient amount of water to ensure total foliar coverage. Start applying when the plants are tall enough to be susceptible to infestation. Use the following:

- . For **Baby Vegetables**, apply 10 days after planting and repeat again in 7 to 10 days.
- . For **Regular Vegetables**, apply when the plant has grown two leaves or is 6 inches tall. Repeat application every 10 to 15 days.
- . For **Fruit Trees**, apply when the tree ends dormancy and continue to repeat applications every 10 to 15 days. (For fruit trees use 16 to 32 Fl. Oz. of Debug Turbo in 150 gallons of water)
- . For **Berries**, apply when the plant ends dormancy and continue to repeat applications every 10 to 15 days. (For berries use 16 to 32 Fl. Oz. of Debug Turbo in 150 gallons of water).
- . For **Grasses and Forage Crops like Alfalfa**, apply in spring, approximately 2 weeks after dormancy period is over, and repeat every 10 to 15 days.

STANDARD APPLICATION : ALL APPLICATION RATES ARE FOR ONE ACRE

16 Fl. Oz to 32 Fl. Oz. of Debug Turbo mixed with 100 gallons water or sufficient amount of water to ensure total foliar coverage. When applying at early plant stage use dilution of 16 fl. Oz. to 32 fl. Oz. of Debug Turbo with 50 gallons of water. When applying in high population crops like berries and fruit trees, use dilution of 32 Fl. Oz. to 48 Fl. Oz. Debug Turbo with 150 to 300 gallons of water.

Repeat application at 7 to 14 day intervals, at least once and if necessary additional times.

For Greenhouse crops Prepare a 0.5% - 1% (0.60 oz – 1.25 oz./ Gal) solution of Debug Turbo in water and completely drench the plants. Repeat every 5 to 7 days till infestation clears.

For NEMATODE CONTROL use 52 oz to 104 oz. DEBUG Turbo in 500- 1500 Gallons water per acre as a drench or drip.

MAXIMUM APPLICATION RATE IS 20 GRAMS OF ACTIVE INGREDIENT (104 FL. OZ. OR 3.25 QUARTS OF DEBUG TURBO E.C.) OR LESS PER ACRE ACCORDING TO TOLERANCE EXEMPTION 40 CFR 180.1119 FOR AZADIRACHTIN, FATS, AND GLYCERIDIC OILS MARGOSA (NEEM OIL) IS EXEMPT FROM THE REQUIREMENT OF A TOLERANCE AS PER 40 CFR 180.1291

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EPA ESTABLISHMENT NO: 070310-IND-002
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TANK MIXING:

'DEBUG TURBO' is compatible with commonly used insecticides, fungicides and foliar fertilizers, like all herbal products. Do not use Debug Turbo with Bordeaux mixture, lime sulfur or other highly alkaline materials. It is advisable to pre-test the tank mix combination proposed on a few plants to observe phytotoxicity, if any. The climatic conditions and cultural practices may be different in the actual field than experimental conditions. Therefore the responsibility of damage due to tank mix, if any, remains with the user. This product is damaged by oxidants. Do not mix acids and bleaches with DEBUG TURBO.

MIXING DIRECTIONS:

1. Determine the acreage to be treated with DEBUG TURBO.
2. Fill tank with appropriate amount of water.
3. Add the pre-measured amount of DEBUG TURBO.
4. Keep tank agitated with an agitation device. Proper agitation is required, especially when mixing DEBUG TURBO with other pesticides.

SPRAYING DIRECTIONS:

1. Spray DEBUG TURBO using a boom system, propeller turbine system (indicated for orchards); pressure hose with gun sprayers, powered back sprayers and manual hand sprayers. Use a minimum boom pressure of 160 psi and maximum tractor speed of 2.0 miles per hour. Use horizontal nozzles at 10- inch spacing and two vertical drops, one at each end. Each vertical drop must have two nozzles, one at 90° angle and the other at 45° angle. The water used for mixing should have a pH at about 5.5 for DEBUG TURBO to be most effective. If necessary, use a buffer to bring the pH to the desired level.
2. DURING APPLICATION, MAKE SURE THAT THE SPRAY COVERS THE ENTIRE PLANT INCLUDING THE UNDERSIDE OF LEAVES.

CHEMIGATION DIRECTIONS**GENERAL CHEMIGATION REQUIREMENTS:**

- A. "Apply this product only through sprinkler, or drip (trickle) irrigation systems. Do not apply this product through any other type of irrigation system."
- B. "Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water."
- C. "If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts."
- D. "Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place."
- E. "A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise."

SPRINKLER CHEMIGATION REQUIREMENTS:

1. "The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow."
2. "The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump."
3. "The pesticide injection pipeline must also contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down."
4. "The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops".
5. "The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected"
6. "Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock."
7. "Do not apply when wind speed favors drift beyond the area intended for treatment."
8. "Agitation is generally recommended in the pesticide supply tank."
9. "Apply this product continuously for the duration of the water application."
10. "A supply tank is recommended for this product. If using a supply tank, dilute this product at the rate of 1.25 gallons per 500 gallons of water."
11. "Apply between 1200 to 1500 gallons of water per acre to achieve efficacy."

DRIP (TRICKLE) CHEMIGATION REQUIREMENTS:

1. "The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow."
2. "The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump."
3. "The pesticide injection pipeline must also contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down."
4. "The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops".
5. "The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected"
6. "Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock."
7. "Agitation is generally recommended in the pesticide supply tank."
8. "Apply this product continuously for the duration of the water application."
9. "A supply tank is recommended for this product. If using a supply tank, dilute this product at the rate of 1.25 gallons per 500 gallons of water."
10. "Apply between 1200 to 1500 gallons of water per acre to achieve efficacy."

GENERAL:

- . DEBUG TURBO is more effective when used as a preventative.
- . DEBUG TURBO is a broad-spectrum herbal insecticide.
- . DEBUG TURBO affects the insects at all stages of growth.
- . SHAKE THE CONTAINER WELL, BEFORE USE."

CROPS

Top fruits such as Citrus, Lemons, Oranges, Grapefruits, Pummalo, Apples, Plums, Peaches, Apricots, Avocados, Figs, Prunes, Nectarines, Pears. Mangoes, Cherries, Kiwifruit, Kumquats, Loquats, Quinces, Persimmons, and Palm.

Cucurbits, Watermelons, Gherkins, Squashes, Pumpkins, Gourds, Bitter melons, Chayote, Okra, Asparagus, and Melons.

Bulb, Cole and Leafy vegetables such as Broccoli, Brussels sprouts, Cabbage, Celery, Lettuce, Endives, Kale, Parsley, Onions, Garlic, Shallots, Leeks, Kohlrabi, Chard, Collard, Amaranth, and Spinach.

Root and Tuber vegetables such as Beets, Carrots, Ginger, Radish, Horseradish, Potatoes, Turnips, Yams, Sweet Potatoes, Ginseng, Rutabagas, Watercress, Artichokes and Turmeric.

Legumes such as Beans, Lentils, Peas, Peanuts, Soybeans and Garbanzo Beans.

Cereals such as Barley, Corn, Millet, Rice, Rye, Sorghum, Triticale, Oats, and Wheat.

Alfalfa and other feed & forage crops. Grasses

Fruiting vegetables such as Tomatoes, Tomatillos, Bell Peppers, Chili Peppers, and Eggplant.

Berries such as, Blackberries, Blueberries, Currants, Strawberries, Cane berries, Gooseberries, Raspberries, Cranberries, Loganberries, Huckleberries, and Boysenberries

Grapes

Tropical fruits such as Banana, Cherimoyas, Mangoes, Guavas, Papayas and Pineapple.

Cotton and oilseeds such as Canola, Sesame, Rapeseed, Sunflower, Safflower, Olive, Peanut and Jojoba

Herbs & Spices including but not limited to Mints, Anise, Basil, Chives, Coriander, Dill, Fennel, Marigold, Sage, and Thyme.

Nuts such as Almonds, Pecans, Pistachios, Cashews, Chestnuts, Macadamia, Hazelnuts, Brazil nut, Water chestnuts, and Walnuts.

Coffee, Tea, Tobacco and Sugarcane

Greenhouse Crops including ornamentals such as Chrysanthemums, Poinsettias, Roses, Lilies, Geraniums, Daisies, Carnations, Salvias and Dahlias.

All starter vegetables and fruit crops.

INSECT PESTS / MITES / DISEASES / NEMATODES

Aphids

Armyworms, Fall Armyworms

Beetles, Beanleaf Beetles, Cucumber Beetles, Japanese Beetles, Mexican Beetles, Colorado Potato Beetles, Potato

Flea Beetles, Corn beetles, Flea Beetles, Borers, Budworms.

Casebearers, Caterpillars, Codling Moth

Fruit Flies

Gnats, Fungus Gnats, Grasshoppers, Grubs

Leaf Hoppers, Leaf Perforators, Leafminers, Leafrollers, Loopers, Cabbage loopers, Lygus Bug

Maggots, Onion Maggots, Mealy Bugs, Mealybugs, Mildew, Rust and Powdery Mildew, Mites, Two Spotted

Spidermites, Pacific Spider Mites, Moths, Diamondback Moths, Gypsy Moths, Grape Berry Moths, Nematodes

Orange Totrix

Phylloxera, Phythium, Psylla, Psyllids, Rhizoctonia Solani

Scales, San Jose Scale

Sclerotinia Sclerotiorum, Sclerotium Rolfsii

Sharpshooters

Sucker Ants

Thrips

Weevils, Pepper Weevils, Boll weevils

Whiteflies

Worms, Wireworms, Webworms, Budworms, Alfalfa Worms

Boll Worms, Pickle Worms, Fagot Worms, Root Worms, Ear Worms, Cut Worms