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Systems Integration Group, Inc.

Whitmire

# TC 148b

**Microencapsulated Concentrate**

**KILLS IMMATURE STAGES OF:** Aphids (Suppression), Fungus Gnat Larvae, Mealybugs, Mites, Scale, Shoreflies, Thrips (Suppression) and Whiteflies.

**FOR USE IN:** Greenhouses (Shade and Lath Houses), Garden Centers, Interiorscapes, Florists, Hobby Greenhouses, Homes, Landscapes, Nurseries, Commercial Buildings and Warehouses.

**ACTIVE INGREDIENT:**

Pyriproxyfen ..... 1.3%

**OTHER INGREDIENTS:** ..... 98.7%

Contains Petroleum Distillates, Xylene or Xylene Range Aromatic Solvent.

EPA Reg. No. 499-439 EPA Est. No. 499-MO-1

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

**FIRST AID**

**IF IN EYES:** Flush with plenty of water. Get medical attention if irritation persists.

**IF SWALLOWED:** Call a physician or Poison Control Center immediately. Do not induce vomiting.

**IF ON SKIN:** Remove contaminated clothing and wash before reuse. Wash skin with soap and warm water. Get medical attention if irritation persists.

See supplemental label for additional precautionary statements.

**NET CONTENTS: 1 Gallon**

1 Gallon Front Panel (Revised 10/98)



**Whitmire Micro-Gen**  
Research Laboratories, Inc.  
800-777-8570

ACCEPTED

MAY 25 1999

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 499-439

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See reverse side for additional Precautionary Statements.

### DIRECTIONS FOR USE

**IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.**

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

TC 148b is a flowable microencapsulated concentrate containing pyriproxyfen. Pyriproxyfen (TC 148b) acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. TC 148b has no activity on adult insects but hatching of eggs laid by treated adults will be suppressed. Since TC 148b is an Insect Growth Regulator and activity depends on insects development, evidence of activity will be slower than with typical contact insecticides.

This product may be tank mixed with an adulticide. If a high population of adult insects is present, the use of an adulticide may be necessary for immediate relief. For any mixture, check for phytotoxicity before spraying entire crop.

**MANAGING INSECT RESISTANCE:** Repeated use of the same class of insecticides or insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices Whitmire Micro-Gen is restricting the use of TC 148b (or Distance®) to no more than two times per cropping cycle or no more than two times per six months. In addition TC 148b should be used in rotation with other IGR materials.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

**PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:** Coveralls, Waterproof gloves, and Shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

### MIXING INSTRUCTIONS

Thoroughly clean spray equipment before using TC 148b. Shake concentrate well before diluting. When diluting, first add approximately one-half of the water to the spray tank and then add the proper amount of TC 148B. When emptying the bottles triple rinse with water, shake well and add the rinsate to the spray tank. Add the rest of the water and agitate the sprayer thoroughly. Agitate sprayer occasionally during use to insure even mixture. Shake or reagituate sprayer if spraying is interrupted or if dilution is left in sprayer overnight. If spray screens are used, they should be 50 mesh or larger.

### HORTICULTURAL USE

#### MIXING AND DILUTION INSTRUCTIONS:

**HEAVY INFESTATION:** 0.3 fl. oz. TC 148b per gallon of water

**PREVENTATIVE AND LOW INFESTATION:** 0.15 fl. oz. TC 148b per gallon of water.

Spray upper and lower foliage surfaces of plants uniformly. Repeat as necessary.

It is permissible to treat under benches for the control of insects.

**DRENCHING:** Make soil application to cover soil surface or use adequate volume to moisten soil to desired depth. Apply when soil is drier, but do not stress plant with dryness prior to treatment. Repeat as necessary. For plug flats or trays, use lower rate.

**SPECIAL NOTICE:** This product has demonstrated excellent plant safety; however, all varieties of the plants listed have not been tested. When treating large numbers of plants of a single variety, spray a few plants several days before the main application and observe for phytotoxicity prior to full scale application.



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**FOR USE INDOORS AND OUTDOORS:**

**Bedding plants (including):** impatiens, marigolds, petunias, geraniums, garden mums, verbena, New Guinea impatiens, and dahlia.

**Cut flowers (including):** roses, chrysanthemums, carnations, snapdragons, and orchids.

**Flowering hanging baskets (including):** fuchsia and lantana.

**Foliage (such as):** Boston fern, dracaena, ficus, schefflera, and philodendron.

**Potted flowering plants (including):** poinsettia, chrysanthemums, florist's azaleas, lilies, African violets, geraniums, hibiscus, kalanchoes, begonias, gloxinia, cyclamen, cineraria, calceolaria, and exacum.

**Trees & shrubs (including):** azalea, barberry, cotoneaster, euonymus, holly, ivy, juniper, oak, pine, rhododendron, roses, spiraea, spruce, virburnum, and yew.

Direct spray to some open blooms may cause petal drop.

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**STORAGE:** Store in original container in secured dry storage area. Prevent cross-contamination with other pesticides or fertilizers. Do not store above 122°F for extended periods of time. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Do not reuse empty container. Triple rinse, wrap container and put in trash.

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**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION:** Harmful if swallowed or absorbed through skin. Do not breathe vapors or spray mist. Avoid contact with skin or eyes. In case of contact, flush with plenty of water. Wash with Soap and water after use. Obtain medical attention if irritation persists. Avoid contamination of food or feedstuffs.

Do not spray where electrical short circuits might result, such as wall outlets, conduits, etc.

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters or rinsate.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**Applicators and Other Handlers Must Wear:** Long-sleeved shirt and long pants, Waterproof gloves, Shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergents and hot water. Keep and wash PPE separately from other laundry.

**USER SAFETY RECOMMENDATIONS**

**Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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.

A Prescription Treatment® brand insecticide from:  
Whitmire Micro-Gen Research Laboratories, Inc.  
3568 Tree Court Industrial Blvd.  
St. Louis MO 63122-6682