

# DISTANCE<sup>®</sup>

Insect Growth Regulator for  
control of whiteflies on greenhouse ornamentals and greenhouse vegetables  
(tomatoes, peppers, cucumbers)

COMMERCIAL

GUARANTEE: Pyriproxyfen ..... 103 g/L

REGISTRATION NO.: 28414 PEST CONTROL PRODUCTS ACT

## CAUTION

### EYE AND SKIN IRRITANT

KEEP OUT OF REACH OF CHILDREN.

READ THE LABEL BEFORE USING.

NET CONTENTS: 1L

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DISTANCE<sup>®</sup> is a registered trademark of Valent USA Corporation.

## GENERAL INFORMATION:

For control of whiteflies on greenhouse ornamentals and greenhouse vegetables (tomatoes, peppers, cucumbers).

DISTANCE affects all pest insect life stages, including eggs, nymphs/larvae, pupae and adults. DISTANCE does not control adults, but greatly reduces their production of viable eggs due to its strong transovarial activity. In whitefly, transovarial activity begins within one day after adults contact or ingest DISTANCE residues. DISTANCE is also ovicidal and inhibits metamorphosis of nymphs, larvae and pupae into adults. Since DISTANCE is an Insect Growth Regulator (IGR), activity depends on the insect's development. Therefore, evidence of activity may be slower than with typical contact insecticides, especially when large numbers of late instars are present at time of application.

DISTANCE also has strong translaminar activity on a variety of ornamental plants, including poinsettia, hibiscus, gerbera daisy and chrysanthemums. Distance residues applied to the upper leaf surface will rapidly penetrate the leaf cuticle, and can subsequently be ingested by immature and adult insects feeding on the lower leaf surface (eg. whitefly). Therefore, even in cases where it is difficult to achieve thorough underleaf spray coverage, DISTANCE can still provide highly effective control.

## PLANT TOLERANCE:

**IMPORTANT:** The large number of existing ornamental varieties and cultivars coupled with the constant introduction of new varieties makes it impossible to field test DISTANCE in every locale where sold or in all of the combinations created by these differences. These differences include the soil or media type, pH, moisture or fertility, environmental conditions such as temperature, lighting or degree- days and horticultural practice and the manner of use and application of this product.

To ensure that DISTANCE is compatible with the variety or cultivar under your specific conditions, test the product on a limited scale and observe for phytotoxicity for two weeks before making large scale applications. Phytotoxicity has been observed on the following plants: Salvia (*Salvia spp.*), Ghost Plant (*Graptopetalum paraguayense*), Boston Fern (*Nephrolepis exaltata*), Schefflera (*Schefflera spp.*), Gardenia (*Gardenia spp.*) and Coral Bells (*Heuchera sanguinea*). It is therefore recommended that DISTANCE not be used on these plants. Do not apply to Poinsettia after bract formation.

## DIRECTIONS FOR USE:

### MIXING INSTRUCTIONS

Prepare no more spray mixture than is necessary for the immediate operation. Thoroughly clean spray equipment before using this product. Agitate thoroughly before and during application. Flush spray tank thoroughly with clean water daily after use and dispose of pesticide rinsate by application to a previously treated area. Add ½ to 2/3 of the required amount of water to the spray or mix tank. With the agitator running, add the required amount of DISTANCE. Continue agitation while adding the remainder of the water. Begin application of the spray solution after DISTANCE has been added and completely dispersed into the mix water. Maintain agitation until all of the mixture has been applied.

DO NOT allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

Table 1. Directions for Use on Greenhouse vegetables (tomatoes, peppers and cucumbers) and Greenhouse Ornamentals:

PESTS	DOSAGE	REMARKS
Silverleaf Whitefly Sweet potato Whitefly Greenhouse Whitefly	45 ml product per 100 L	Apply as a foliar spray. Apply the spray mixture uniformly to all plant surfaces and to the point of runoff. Do not apply within 3 days of harvest of tomatoes, peppers and cucumbers. Make first application when adult insects begin to appear. If necessary, make a second application from 14 to 28 days after the first application. Use longer interval when plants are not rapidly flushing new growth. Use shorter interval when plants are flushing new growth. Apply a maximum of two applications per cropping cycle. If the cropping cycle is less than 6 months, do not apply more than two applications per 6 months. If rapid control of adult insects is required, apply a registered adulticide.

**NOTE:** Since ornamental varieties are numerous, constantly changing, and may react differently to DISTANCE and tank mixtures including Distance, test the product(s) on a small scale before making large-scale applications. Phytotoxicity has been observed on the following plants: Salvia (*Salvia* spp.), Ghost Plant (*Graptopetalum paraguayense*), Boston Fern (*Nephrolepis exaltata*), Schefflera (*Schefflera* spp.), Gardenia (*Gardenia* spp.) and Coral Bells (*Heuchera sanguinea*). It is therefore recommended that DISTANCE not be used on these plants. DO NOT APPLY TO POINSETTIA AFTER BRACT FORMATION.

#### RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, please note that DISTANCE contains a Group 7 insecticide. Any insect population may contain individuals naturally resistant to DISTANCE and other Group 7 insecticides. The resistant individuals may dominate the insect population if this group of insecticides is used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance:

- Where possible, rotate the use of DISTANCE or other Group 7 insecticides with different groups that control the same pests in a field.
- Insecticide use should be based on an IPM program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices.
- Before applying DISTANCE, correctly identify the pest and ensure economic and agronomic thresholds are met as recommended by local provincial or IPM specialists.
- Monitor treated pest populations for resistance development.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact a Valent representative at 1-800-89-VALENT or 1-800-898-2536 or at [www.valentpro.com](http://www.valentpro.com).

### PRECAUTIONS:

1. KEEP OUT OF REACH OF CHILDREN.
2. Wash thoroughly after handling and before eating, drinking or smoking.
3. Wear coveralls or long-sleeved shirt and long pants, rubber boots, goggles, gloves (rubber, PVC, neoprene or nitrile) and hat during mixing, loading, cleanup and application. DO NOT re-enter treated areas within 12 hours.
4. If clothing becomes contaminated, remove and wash separately from household laundry before reuse. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate.
5. Clean spray equipment thoroughly after use.
6. This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning of equipment.
7. If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at : [www.croplife.ca](http://www.croplife.ca).

### FIRST AID :

Contains petroleum distillate.

IN CASE OF EYE CONTACT: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Consult a physician or poison control centre for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse off skin immediately with plenty of water for 15-20 minutes. Consult a physician or poison control centre for further treatment advice.

IF SWALLOWED: Call a physician or poison control centre immediately. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control centre or physician. Do not give anything by mouth to an unconscious person.

IF INHALED: Remove person to fresh air. If person is not breathing, call an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control centre or physician for further treatment advice.

Take the container label or product name and Pest Control Product Registration Number with you when seeking medical attention.

### TOXICOLOGICAL INFORMATION:

If ingested, probable mucosal damage may contraindicate the use of gastric lavage. This product contains a Petroleum distillate: ingestion or subsequent vomiting can result in aspiration of this product, which can cause pneumonitis.

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present. TOXIC to certain beneficial insects. This product should not be applied during peak activity periods of beneficial insects.

### STORAGE:

1. Store in original tightly closed container.
2. Do not ship or store near food, feed, seed and fertilizers.
3. Store in cool, dry, locked, well-ventilated area without floor drain.

### DISPOSAL:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

NOTICE TO USER:

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

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