

Xytect™ 75WSP

Insecticide

For foliar and systemic insect control in turfgrass (including sod farms), landscape ornamentals, fruit and nut trees and interior plantscapes.

EACH PACKET CONTAINING **1.6 oz**

ACTIVE INGREDIENT:

Imidacloprid, 1- [(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine.....	75.0%
OTHER INGREDIENTS:	25.0%
TOTAL:	100.0%

KEEP OUT OF REACH
OF CHILDREN.

CAUTION

See additional precautionary statements and directions for use inside booklet.

STOP - Read the label before use.

Keep water soluble packets in this container and store in a cool dry place but not below freezing (32 F)

EPA Reg. No. 42750-117-74779 EPA Est. No. 65387-AR-001

Do not remove packets from container except for immediate use.

PRECAUCION AL USUARIO: Si usted no puede leer o entender ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

(TO THE USER: If you cannot read or understand English, do not use this product until the label has been fully explained to you.)

USER SAFETY RECOMMENDATIONS

User should:
1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
3. 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.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed or absorbed through skin. Causes eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Keep children or pets off treated area until spray is dry.

Applicators and Other Handlers Must Wear:

1. Long-sleeved shirt and long pants
2. Chemical resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride (PVC) or viton.
3. Shoes plus socks

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

ENGINEERING CONTROLS STATEMENTS:

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

ENVIRONMENTAL HAZARDS

This product is highly toxic to 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. Do not contaminate water when disposing of equipment washwaters.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. This chemical demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

Do not formulate this product into other end-use products

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.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If the container is leaking or material spilled for any reason or cause, care-fully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Dispose of pesticide as directed below. In spill or leak incidents, keep unauthorized people away. You may contact Chemtrec at 800-424-9300 for decontamination procedures or any other assistance that may be necessary.

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: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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) and restricted-entry interval. 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.

Exception: If the product is applied by drenching, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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:

1. Coveralls
2. Chemical resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride (PVC) or viton.
3. Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep children and pets off treated area until dry.

FIRST AID

IF SWALLOWED

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 to 20 minutes.
- Call a poison control center or doctor for treatment advice.

IF IN EYES

- Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

In case of emergency call CHEMTREC toll free at **1-800-424-9300**. Have a product container or label with you when calling a poison control center or, doctor, or going for treatment.

Note to Physician: No specific antidote is available. Treat the patient symptomatically.

APPLICATION TO TURFGRASS	
Xytect™ 75WSP Insecticide will control the following soil inhabiting pests found in turfgrass	
PEST	SCIENTIFIC NAME
Northern & Southern masked chafers Asiatic garden beetle European chafer Green June beetle May or June beetle Japanese beetle Oriental beetle Billbugs Annual bluegrass weevil Black turfgrass ateniuis European Crane Fly Mole crickets	Cyclocephala borealis, C. immaculata, and/or C. lurida Maladera castanea Rhizotrogus majalis Cotinis nitida Phyllophaga spp. Popillia japonica Anomala orientalis Spherophorus spp. Hyperodes spp. Ataenius spretulus and Aphodius spp Tipula paludosa scapteriscus spp.
Xytect™ 75WSP Insecticide will suppress cutworms and chinch bugs.	

Xytect™ 75WSP Insecticide can be applied on turfgrass in the following sites: Home lawns, Business and office complexes, Shopping complexes, Multi-family residential complexes, Golf courses, Airports , Cemeteries, Parks, Playgrounds, Athletic fields, Sod farms.

Xytect™ 75WSP Insecticide has adequate residual activity that applications can be made preceding the egg laying activity of the target pests. Best control is achieved when applications are made prior to egg hatch of the pests. Sufficient irrigation or rainfall is required to move the active ingredient through the thatch.

Avoid application when infested turfgrass areas are water-logged or soil beneath turf is saturated with water. These conditions prevent thorough and consistent distribution. Best results are achieved when rainfall or irrigation after

application will penetrate vertically in the soil column carrying the active ingredient into the zone where insects are normally located.

Do not exceed a total of 8.6 ounces application (0.4 lb of active ingredient) per acre per year.

APPLICATION EQUIPMENT FOR USE ON TURFGRASS

Xytect™ 75WSP Insecticide should be diluted with enough water to provide adequate volume to promote thorough distribution into the pest zone. Use only accurately calibrated equipment for application to turfgrass. Apply a uniform, coarse droplet spray, using a low pressure setting to eliminate off target drift. Calibration should be performed on a regular basis to ensure that equipment is distributing product properly.

Use Site: TURFGRASS	
To control Larvae of:	RATE
European Crane Fly Annual bluegrass weevil Green June beetle Asiatic garden beetle Japanese beetle Billbug Northern masked chafer Black turfgrass ateniuis Oriental beetle Cutworms (suppression) Phyllophaga spp. European chafer Southern masked chafer	Apply 1.6 ounces (1 packet) per 8,250 to 11,000 sq ft). Make application prior to egg hatch of grubs, billbugs, annual bluegrass weevil, and European Crane Fry to maximize control.
For chinch bugs (suppression) and mole crickets apply 1.6 ounces (1 packet) per 8,250 sq. ft. For suppression of chinchbugs, make application before the hatching of the first instar nymphs.	
For control of mole crickets make application before or during the peak egg hatch period. If adults or large nymphs are actively tunneling, Xytect™ 75WSP Insecticide application should be combined with a curative insecticide. Follow label instructions for other insecticides when tank-mixing.	

Consult your local turf, state Agricultural Experiment Station, or State Extension Service Specialists for more specific information regarding timing of application.

Notes and Restrictions for Turf Grass:
Irrigation or rainfall should occur within 24 hours after application to move the active ingredient through the thatch.

- Do not apply more than 8.6 ounces (0.4 lb of active ingredient) per acre per year.
- Avoid mowing turf or lawn area, until after adequate irrigation or rainfall has occurred.

Use Site: TREES, SHRUBS, EVERGREENS, FLOWERS, FOLIAGE PLANTS, GROUNDCOVERS AND INTERIOR PLANTSCAPES	
(Only in and around Industrial and Commercial Buildings and Residential Areas)	
PEST	RATE
Adelgids Aphids Japanese beetles Lace bugs Leaf beetles (Including elm and viburnum leaf beetles) Leafhoppers (Including glassy-winged sharpshooter) Mealybugs Psyllids Sawfly larvae Thrips (suppression) Whiteflies	Apply 1.6 ounces (1 packet) of Xytect™ 75WSP Insecticide per 300 gallons of water. Make foliar applications before high pest populations become established. Reapply on an as needed basis.
To control White grub larvae, (such as Japanese beetle larvae, Chafers, Phyllophaga spp. Asiatic garden beetle, Oriental beetle) apply 1.6 ounces (1 packet) per 8,250 to 11,000 sq ft.	

Make broadcast applications by mixing specified rate in enough water to uniformly cover the treated area. Do not use less than 2 gallons of water per 1000 sq ft. If necessary, irrigate thoroughly to incorporate Xytect™ 75WSP Insecticide into the upper soil profile.

Refer to use directions specific for FLOWERS and GROUND COVERS concerning additional use directions.

Use Site: TREES, SHRUBS, FLOWERS AND GROUNDCOVERS	
(Only in and around industrial and commercial buildings and residential areas, and state, national, and private wooded and forested areas)	
PEST	RATE
Adelgids Asian longhorn beetle Emerald ash borer Eucalyptus longhorn beetle Japanese beetles Leafminers (including birch, elm, citrus, and boxwood leafminers) Sawfly larvae Aphids Lace bugs Mealybugs Soft scales Armored scales (suppression) Pine tip moth larvae Thrips (suppression) Leaf beetles (including elm and viburnum leaf beetles) Black vine weevil larvae Psyllids White grub larvae Plant Bugs Leafhoppers (including glassywinged sharpshooter) Royal Palm Bugs Whiteflies Flatheaded borers (including bronze birch and alder borer) Roundheaded borers	<p>For TREES apply 1.6 ounces (1 packet) of Xytect™ 75WSP Insecticide per 24 to 48 inches of cumulative trunk diameter.</p> <p>For SHRUBS apply 1.6 ounces (1 packet) of Xytect™ 75WSP Insecticide per 24 to 48 foot of shrub height.</p> <p>For FLOWERS and GROUNDCOVERS apply 1.6 ounces (1 packet) of Xytect™ 75WSP Insecticide per 8,250 to 11,000 sq ft.</p>

Application Techniques:

TREES

Soil Injection

GRID SYSTEM: Make applications in a grid pattern on 2.5 foot centers within the drip line of the tree.

CIRCLE SYSTEM: Make applications in holes evenly spaced approximately 2 – 3 feet apart in a circle within the drip line of the tree. Larger trees may require additional application circles.

BASAL SYSTEM: Make applications into holes evenly spaced around the base of the tree trunk no more than 6 to 12 inches out from the base.

Soil Drench

Apply in no less than 10 gallons of water per 1000 square feet as a drench around the base of the tree, directed to the root zone. Any plastic or other barrier that may prevent drench solution from reaching the root zone must be removed.

Notes and Restrictions for Trees:

- Use sufficient water to be able to inject an equal amount of solution in each hole.
- Use low pressure and sufficient solution for thorough distribution into the treatment zone.
- Maintain soil moisture for 7 to 10 days.
- Do not use less than 4 holes per tree.
- No Soil Injection Applications Allowed In Nassau or Suffolk Counties of New York.
- Application to trees already heavily infested with borers listed may not prevent the eventual loss of the trees.

SHRUBS

Soil Injection

Apply to individual plants using dosage Indicated.

Soil Drench:

Uniformly apply the dosage in no less than 10 gallons of water per 1000 square feet as a drench around the base of the tree, directed to the root zone. Remove plastic or any other barrier that will stop solution from reaching the root zone.

Notes and Restrictions for Shrubs:

- Mix required dosage in sufficient water to inject an equal amount of solution in each hole.
- Maintain a low pressure and use sufficient solution for distribution of the liquid into the treatment zone. Maintain soil moisture for 7 to 10 days.
- Do not use less than 4 holes per shrub.
- No Soil Injection Applications Allowed In Nassau or Suffolk Counties of New York.

FLOWERS and GROUNDCOVERS

Apply as a broadcast treatment and incorporate into the soil before piling or apply after plants are established. If application is made to established plants, best control is achieved by irrigating after application.

Use site: PECAN	
(Only in and around residential area) (Use on pecans not permitted in California unless directed by specific supplemental labeling)	
PEST	RATE
Yellow pecan aphid Pecan spittlebug Black margined aphid Pecan stem phylloxera Pecan leaf phylloxera	Apply 1.6 ounces (1 packet) per 300 gallons of water OR 2.1 ounces per acre ¹ .

Make foliar applications as pest pressure begins to increase. Make a second application 10 to 14 days after first if field scouting reveals continued pest pressure. Use of an organosilicone based spray adjuvant at recommended rate can insure thorough coverage of foliage.

Notes and Restrictions for residential Pecan Trees:

- Do not apply more than a total of 6.3 ounces of Xytect™ 75WSP Insecticide per acre per year.
- Do not make more than 3 applications.
- Allow 10 or more days between applications.

¹ The amount of Xytect™ 75WSP Insecticide required per acre depends on tree size and/or volume of foliage. The rate per acre is based on a standard of 400 gallons of dilute spray solution per acre for large trees with full foliage.

Use site: GRAPES	
(For use only in and around industrial and commercial buildings and residential areas)	
PEST	RATE
Leafhoppers (including glassy-winged sharpshooter) Mealybugs	Apply 1.6 ounces (1 packet) per 300 gallons of water OR 1.0 ounces per acre as a foliar spray using 200 gallons of water per acre.

- Notes and Restrictions for residential Grapes:
- Do not apply more than a total of 2.0 ounces of Xytect™ 75WSP Insecticide per acre per year.
 - Allow at least 14 days between applications.

- Applications may be applied up to and including day of harvest.

Use site: POME FRUITS

(only in and around residential area)

Includes: Apple, Crabapple, Loquat, Mayhaw, Pear, Pear (oriental), Quince

PEST	RATE
Aphids (except Woolly apple aphid) Leafhoppers (including glassy-winged sharpshooter) Leafminer Mealybugs* San Jose Scale*	Apply 1.6 ounces (1 packet) per 300 gallons of water OR 2.1 ounces per acre ¹ .

Notes and Restrictions for residential Pome Fruits:

- Apply specified dosage as foliar spray as needed after petal-fall is complete.
- For control of rosy apple aphid, apply prior to leafrolling caused by the pest.
- For first generation leafminer control, make first application as soon as petal fall is complete. Greatest leafminer control will result from the earliest possible application. For second and succeeding generations of leafminer, optimal control is obtained from applications made early in the adult flight against egg and early instar larvae. A second application may be required 10 days later if severe pressure continues or if generations are overlapping a single application may result in suppression only. Xytect™ 75WSP Insecticide will not control late stage larvae.

- For San Jose Scale, time applications to the craw/tar stage. Treat each generation.
- For late season (preharvest) control of leafhopper species, apply Xytect™ 75WSP Insecticide while most leafhoppers are in the nymphal stage.
- For optimal control of mealybug, insure good spray coverage of the trunk and scaffolding limbs or other resting sites of the mealybug.
- Do not apply more than 2.1 ounces per acre in a single application. Do not make more than 5 applications.
- Allow 10 or more days between applications.
- Allow at least 7 days between last application and harvest.
- Not for use in California for control on pears.

¹ The amount of Xytect™ 75WSP Insecticide required per acre depends on tree size and/or volume of foliage. The rate per acre is based on a standard of 400 gallons of dilute spray solution per acre for large trees with full foliage.

APPLICATION TO ORNAMENTALS

Xytect™ 75WSP Insecticide can be applied to ornamental plants in commercial and residential landscapes and interior plantscapes. Xytect™ 75WSP Insecticide is a systemic insecticide that is transported within the plant system from the roots to upper foliage. Xytect™ 75WSP Insecticide must be applied into a growing area of the plant that allows absorption of the active ingredient. Adding soluble nitrogen type fertilizers to the spray solution when appropriate can promote the uptake of the active ingredient.

Application can be made by foliar application or soil applications; including soil injection, drenches, and broadcast sprays. Foliar applications offer locally systemic activity against insect pests.

The systemic translocation of active ingredient will be slower when applied to woody plants with soil applications. This delay can take 60 days or longer depending on species and size of plant. To offset this, make applications before anticipated pest infestation.

For outdoor ornamentals, broadcast applications cannot exceed a total of 8.6 ounces (0.4 lb of active ingredient) per acre per year.

ANT MANAGEMENT PROGRAMS

Use Xytect™ 75WSP Insecticide to control aphids, scale insects, mealybugs and other sucking pests on ornamentals with ant populations because it removes honeydew as a food source. To enhance control of ants, supplement with residual sprays, bait placements or other ant control tactics.

NOTE: Not for use in commercial greenhouses, nurseries, or on grasses grown for seed, or on commercial fruit and nut trees.

APPLICATION EQUIPMENT FOR FOLIAR APPLICATIONS

Xytect™ 75WSP Insecticide mixes readily with water and may be used in many types of application equipment. Add a commercial spreader/sticker to promote coverage on hard to wet foliage such as holly, pine, or ivy.

Xytect™ 75WSP Insecticide is compatible with many commonly used fungicides, miticides, liquid fertilizers, and other insecticides. If applicator has no prior experience with a particular tank mix, physical compatibility should be checked by making a small clear jar test using correct proportions of products to be tank mixed.

Do not apply through any irrigation system

RESTRICTIONS

- Do not graze treated areas or use clippings from treated areas for feed or forage.
- Avoid runoff or puddling of irrigation water following application.
- Keep children and pets off treated area until dry.
- Avoid application of Xytect™ 75WSP Insecticide to areas which are water logged or saturated, which will not allow penetration into the root zone of the plant.
- Do not apply more than 8.6 ounces (0.4 lb of active ingredient) per acre per year.
- Treated areas may be replanted with any crop specified on an imidacloprid label, or with any crop for which a tolerance exists for the active ingredient.
- For crops not listed on an imidacloprid label, or for crops for which no tolerances for the active ingredient have been established, a 12-month plant-back interval should be observed.

CONDITIONS OF SALE AND WARRANTY

The DIRECTIONS FOR USE of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of RAINBOW TREECARE SCIENTIFIC ADVANCEMENTS, its Supplemental Distributors, or the Seller. All such risks shall be assumed by the Buyer.

Rainbow Treecare Scientific Advancements, its Supplemental Distributors and the Seller warrant that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use subject to the inherent risks referred to above. NEITHER RAINBOW TREECARE SCIENTIFIC ADVANCEMENTS NOR ITS SUPPLEMENTAL DISTRIBUTORS MAKE ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR OF MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR, ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS. BUYER'S EXCLUSIVE REMEDY AND THE EXCLUSIVE LIABILITY OF RAINBOW TREECARE SCIENTIFIC ADVANCEMENTS, ITS SUPPLEMENTAL DISTRIBUTORS AND THE SELLER FOR ANY AND ALL CLAIMS, LOSSES,

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