87290-26 (9/19/2012 (1/59

U S ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
1200 Pennsylvania Ave N W
Washington D C 20460

EPA Reg Number	Date of Issuance
87290-26	SEP 19 2012

NOTICE OF PESTICIDE
_X_ Registration
___ Reregistration
(under FIFRA as amended)

Term of Issuance
Unconditional

Name of Pesticide Product
Willowood Imidacloprid 4SC

Name and Address of Registrant (include ZIP Code)

Willowood USA, LLC
c/o Ms Lori Kohler
Wagner Regulatory Associates, Inc
P O Box 640
Hockessin, DE 19707

Note Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce In any correspondence on this product always refer to the above EPA registration number

On the basis of information furnished by the registrant the above named pesticide is hereby registered under the Federal Insecticide Fungicide and Rodenticide Act

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency In order to protect health and the environment the Administrator on his motion may at any time suspend or cancel the registration of a pesticide in accordance with the Act The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you

1 Submit and/or cite all data required for registration/reregistration of your product when the Agency requires all registrants of similar products to submit such data

2 The data requirements for storage stability and corrosion characteristics (Guidelines 830 6317 and 830 6320) are not satisfied A one year study is required to satisfy these data requirements You have 18 months from the date of registration to provide these data

Signature of Approving Official	Date
Venus Eagle, Product Manager 01 Insecticide-Rodenticide Branch, Registration Division (7505P)	SEP 19 2012

EPA Form 8570 6

3 Make the following label changes before you release the product for shipment

- Revise the EPA Registration Number to read, "EPA Reg No 87290-26 "

4 Per 40 CFR 156 10(6), submit one copy of your final printed labeling before you release the product for shipment

A stamped copy of the label is enclosed for your records If the conditions above are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e) Your release for shipment of the product constitutes acceptance of these conditions

Please also note that the record for this product currently contains the following CSFs

- Basic CSF, dated January 12, 2012
- Alternate CSF #1, dated January 12, 2012
- Alternate CSF #2, dated January 12, 2012
- Alternate CSF #3, dated January 12, 2012

If you have any questions, please contact Julie Chao at 703-308-8735 or chao julie@epa gov

Venus Eagle
Product Manager 01
Insecticide-Rodenticide Branch
Registration Division (7505P)

Enclosure

Master Label consisting of
Pages 1 – 45 Sub Label A [Agricultural uses]
Pages 46 57 Sub Label B [Seed Treatment uses]

Willowood Imidacloprid 4SC

For uses in pest management, control of listed insects that may vector diseases and maintenance of plant health

ACTIVE INGREDIENT	**% BY WT**
Imidacloprid 1-[(6 Chloro 3 pyridinyl)methyl] N nitro 2 imidazolidinimine	40 7%
OTHER INGREDIENTS	59 3%
TOTAL	100 0%

Contains 4 0 pounds of active ingredient per gallon

Shake well before using
STOP Read the label before use
KEEP OUT OF REACH OF CHILDREN
CAUTION

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 20 minutes • Call a poison control center or doctor for treatment advice
IF INHALED • Move person to fresh air • If person is not breathing call 911 or an ambulance then give artificial respiration preferably mouth to mouth if possible • Call a poison control center or doctor for further treatment advice
IF IN EYES • Hold eye open and rinse slowly and gently with water for 15 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
Have the product container or label with you when calling a poison control center doctor or going for treatment For emergency information concerning this product call the National Pesticides Information Center (NPIC) at 1 800 858 7378 seven days a week 6 30 am to 4 30 pm Pacific Time (NPIC Web site www npic orst edu)
NOTE TO PHYSICIAN No specific antidote is available Treat the patient symptomatically

See inside booklet for additional Precautionary Statements Directions for Use and Limitation of Warranty and Liability

Manufactured For
Willowood USA LLC
1600 NW GARDEN VALLEY BLVD SUITE 120
ROSEBURG OR 97471

EPA Reg No 87290-26 **EPA Est No**

Net Contents

ACCEPTED
SEP 19 2012
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under

EPA Reg No 87290-26

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION Harmful if swallowed Harmful if absorbed through skin Harmful if inhaled Causes moderate eye irritation Avoid contact with skin eyes or clothing Avoid breathing vapor or spray mist Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals Wear long sleeved shirt long pants shoes socks and chemical resistant gloves (such as or made out of any waterproof material, selection category A)

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are listed below More options can be obtained by following the instructions for Category C on an EPA chemical-resistance category selection chart

Applicators and other handlers must wear

Long-sleeved shirt and long pants

Chemical-resistant gloves made of any waterproof material such as nitrile rubber butyl rubber neoprene rubber barrier laminate polyethylene polyvinyl chloride (PVC) or Viton

Shoes plus socks

User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining personal protective equipment PPE If no such instructions for washables exist use detergent and hot water Keep and wash PPE separately from other laundry Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product s concentrate Do not reuse them

ENGINEERING CONTROLS STATEMENT

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

USER SAFETY RECOMMENDATIONS

Users should

Wash hands before eating drinking chewing gum using tobacco or using the toilet

Remove clothing/PPE 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

ENVIRONMENTAL HAZARDS

This product is toxic to wildlife and highly toxic to aquatic invertebrates Do not apply directly to water 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

Ground Water Advisory

This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water The use of this chemical in areas where soils are permeable, particularly where the water table is shallow may result in ground water contamination

OBEY THE FOLLOWING PRECAUTIONS WHEN MIXING AND APPLYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES, RESERVOIRS, RIVERS, PERMANENT STREAMS, MARSHES OR NATURAL PONDS, ESTUARIES, AND COMMERCIAL FISH FARM PONDS

SPRAY DRIFT MANAGEMENT

The interaction of many equipment and weather related factors determine the potential for spray drift The applicator is responsible for considering all of these factors when making application decisions Avoiding spray drift is the responsibility of the applicator

Importance of Droplet Size

An important factor influencing drift is droplet size Small droplets (<150 - 200 microns) drift to a greater extent than large droplets Within typical equipment specifications applications should be made to deliver the largest droplet spectrum that provides sufficient control and coverage Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the airstream as much as possible and by avoiding excessive spray boom pressure

Wind Speed Restrictions

Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph However many factors including droplet size canopy, and equipment specifications determine drift potential at any given wind speed Do not apply when winds are greater than 15 mph and avoid gusty and windless conditions Risk of exposure to sensitive aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area

Restrictions During Temperature Inversions

Do not make aerial or ground applications during temperature inversions Drift potential is high during temperature inversions Temperature inversions restrict vertical air mixing which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind They begin to form as the sun sets and often continue into the morning Their presence can be indicated by ground fog however if fog is not present inversions can also be identified by the movement of smoke from a ground source Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion while smoke that moves upward and rapidly dissipates indicates good vertical mixing

Airblast (Air Assist) Instructions for Tree Crops and Vineyards

Airblast sprayers carry droplets into the canopy of trees/vines via a radially or laterally directed air stream The following specific drift management practices must be followed

Adjust deflectors and aiming devices so that spray is only directed into the canopy
Block off upward pointed nozzles when there is no overhanging canopy

- Use only enough air volume to penetrate the canopy and provide good coverage
- Do not allow the spray to go beyond the edge of the cultivated area (i e , turn off sprayer when turning at end rows)
- Only spray inward toward the orchard or vineyard for application to the outside rows

Mixing and Loading Requirements

To avoid potential contamination of groundwater the use of a properly designed and maintained containment pad for mixing and loading of any pesticide into application equipment is specified If containment pad is not used maintain a minimum distance of 25 feet between mixing and loading area and potential surface to groundwater conduits such as field sumps uncased well heads sinkholes or field drains

For Aerial Applications

The spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices The minimum practical boom length should be used and must not exceed 75% of the wing span or rotor diameter

No-Spray Zone Requirements for Foliar Applications

Do not apply by ground within 25 feet or by air within 150 feet of lakes reservoirs rivers permanent streams marshes or natural ponds, estuaries and commercial fish farm ponds

No-Spray Zone Requirements for Soil Applications
Do not apply within 25 feet of lakes reservoirs rivers permanent streams marshes or natural ponds estuaries and commercial fish farm ponds

Runoff Management
Do not cultivate within 10 feet of the aquatic areas to allow growth of a vegetative filter strip When used on erodible soils Best Management Practice for minimizing runoff should be employed Consult your local Natural Resources Conservation Service for advice in your use area

Endangered Species Notice
Under the Endangered Species Act it is a federal offense to use any pesticide in a manner that results in the death of a member of an endangered species Consult your local county bulletin County Extension Agent or Pesticide State Lead Agency for information concerning endangered species in your area

Resistance Management
Some insects are known to develop resistance to insecticides after repeated use As with any insecticide the use of this product should conform to resistance management strategies established for the use area Willowood Imidacloprid 4SC contains a Group 4A insecticide Insect biotypes with acquired or inherent tolerance to Group 4A insecticides may eventually dominate the insect population if Group 4A insecticides are used repeatedly as the predominant method of control for targeted species

The active ingredient in Willowood Imidacloprid 4SC is a member of the neonicotinoid chemical class Avoid using a block of more than three consecutive applications of Willowood Imidacloprid 4SC and/or other Group 4A products having the same or similar mode of action Following a neonicotinoid block of treatments Willowood strongly encourages the rotation to a block of applications with effective products of a different mode of action before using additional applications of neonicotinoid products Using a block rotation or windowed approach along with other IPM practices is considered as effective use strategy for preventing or delaying an insect pest s ability to develop resistance to this class of chemistry

Foliar applications of Willowood Imidacloprid 4SC or other Group 4A products from the neonicotinoid chemical class should not be used on crops previously treated with a long-residual soil-applied product from the neonicotinoid chemical class

Other Group 4A neonicotinoid products used as foliar treatments include Actara Assail Calypso Centric Clutch Couraze Gallant Impulse Intruder, Leverage Nuprid Pasada, Provado Trimax Pro and Venom
Other Group 4A neonicotinoid products used as soil/seed treatments include Admire Pro Advise Alias Belay Couraze Cruiser Gaucho Macho Macho Max Nuprid, Platinum Venom and Widow

Contact your Cooperative Extension specialist certified crop advisor and/or product manufacturer for additional insect resistance management recommendations Also for more information on Insect Resistance Management (IRM) visit the Insecticide Resistance Action Committee (IRAC) on the web at http //www irac-online org/

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

AGRICULTURAL USE REQUIREMENTS

Use this product 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 intervals 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 soil-injected or soil-incorporated 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

- Coveralls
  Chemical-resistant gloves made of any waterproof material such as barrier laminate butyl rubber nitrile rubber neoprene rubber polyethylene polyvinyl choride (PVC) or Viton
  Shoes plus socks

APPLICATION DIRECTIONS

Soil Application

Direct applications of Willowood Imidacloprid 4SC into the seed or root-zone of crop Failure to place Willowood Imidacloprid 4SC into root-zone may result in loss of control or delay in onset of activity Apply Willowood Imidacloprid 4SC by ground application or chemigation application For seedling flats or trays only apply with broadcast foliar applications or where product is intended to be washed from foliage to soil prior to drying on foliage

Optimum activity of Willowood Imidacloprid 4SC results from applications to the root-zone of plants to be protected The earlier Willowood Imidacloprid 4SC is available to a developing plant the earlier the protection begins Willowood Imidacloprid 4SC is continuously taken into the roots over a long period of time and the systemic nature of Willowood Imidacloprid 4SC allows movement from roots through the xylem tissue to all vegetative parts of the plant This results in extended residual activity of Willowood Imidacloprid 4SC the control of insects and the prevention and/or reduction of virus transmission or symptom expression and plant health benefits The rate of Willowood Imidacloprid 4SC applied affects the length of the plant protection period Use the higher listed rates when infestations occur later in crop development or where pest pressure is continuous Willowood Imidacloprid 4SC will generally not control insects infesting flowers blooms or fruit Additional crop protection may be required for insects feeding in or on these plant parts and for insects not listed in the crop-specific pests controlled sections of this label Additional specific Willowood Imidacloprid 4SC application rates are also provided in the crop-specific sections of this label

RESTRICTIONS

- Do not apply with aerial application equipment
  Do not apply more than 0 5 lb active ingredient per acre, per year regardless of formulation or method of application unless specified within a crop specific section for a given crop

Foliar Application

Do not apply Willowood Imidacloprid 4SC in enclosed structures such as greenhouses or planthouses
Apply Willowood Imidacloprid 4SC as a directed or broadcast foliar spray Thorough coverage of foliage is necessary without runoff for optimum insecticidal efficacy Use adequate spray volumes properly calibrated application equipment, and spray adjuvant if necessary to obtain thorough coverage Failure to provide adequate coverage and retention of Willowood Imidacloprid 4SC on leaves and fruit may result in loss of insect control or delay in onset of activity Willowood Imidacloprid 4SC may be applied with properly calibrated ground or aerial application equipment Minimum specified spray volumes unless otherwise specified on crop specific

application sections are 10 gallons/acre by ground application and 5 gallons/acre through aerial equipment Willowood Imidacloprid 4SC may also be applied by overhead chemigation (see additional Chemigation Directions for Use section below) if allowed in crop specific Application section

Willowood Imidacloprid 4SC use on crops grown for production of true seed intended for private or commercial planting is not permitted unless specifically approved under state-specific 24(c) Special Local Needs labeling As with any insecticide care must be taken to minimize exposure of Willowood Imidacloprid 4SC to honey bees and other pollinators Use of Willowood Imidacloprid 4SC on crops requiring bee pollination should be avoided during bloom and a minimum of 10 days prior to bloom Additional information on Willowood Imidacloprid 4SC uses for these crops and other questions may be obtained from the Cooperative Extension Service PCAs consultants or local Willowood LLC representatives

RESTRICTIONS

Do not apply to plants grown in non-soil medias such as perlite vermiculite rock wool or other soil-less media or plants growing hydroponically

Do not apply more than 0 5 lb active ingredient per acre per crop season regardless of formulation or method of application unless specified within a crop-specific Application section for a given crop

MIXING INSTRUCTIONS

Willowood Imidacloprid 4SC is a suspension concentrate (flowable) formulation with unique qualities and should be shaken well prior to measuring/mixing The formulation is thixotropic and after sitting for a short time reverts to a gel or thick paste consistency helping to prevent phase separation common to most flowables' After moderate shaking the formulation thins to a relatively non-viscous liquid which pours and measures easily with very few trapped air bubbles – another common problem of most flowables

Willowood Imidacloprid 4SC has demonstrated easy mixing/blending in water with varying degrees of hardness and temperature Willowood Imidacloprid 4SC has demonstrated good mixing and compatibility with many fluid fertilizers without dilution with water However because fertilizers vary widely in quality and composition it is suggested that a jar test be performed (see Compatibility Note below) prior to full-scale mixing

To prepare the application mixture add a portion of the required amount of water to the tank and with agitation add Willowood Imidacloprid 4SC Complete filling tank with balance of water needed Maintain sufficient agitation during both mixing and application Willowood Imidacloprid 4SC may also be used with other pesticides and/or fertilizer solutions **Please see Compatibility note below** When tank mixtures of Willowood Imidacloprid 4SC and other pesticides are involved prepare the tank mixture as described above and follow suggested Mixing Order below

Mixing Order

When pesticide mixtures are needed add wettable powders or wettable granules first Willowood Imidacloprid 4SC and other flowable (suspension concentrate) products second and emulsifiable concentrates last Ensure good agitation as each component is added Do not add an additional component until the previous is thoroughly mixed If a fertilizer solution is added a fertilizer/pesticide compatibility agent may be needed Maintain constant agitation during both mixing and application to ensure uniformity of spray mixture Follow the most restrictive precautions and limitations on the labeling of all products used in mixtures

Compatibility Note

Test compatibility of the intended mixture before adding Willowood Imidacloprid 4SC to the spray or mix tank Add proportionate amounts of each ingredient in the appropriate order to a pint or quart jar cap shake for 5 minutes and let set for 5 minutes Poor mixing or formation of precipitates that do not readily redisperse indicates an incompatible mixture that should not be used For further information contact your local Willowood representative

CHEMIGATION

Refer to **Directions For Use** section before proceeding with chemigation application

Types of Irrigation Systems
Chemigation applications of Willowood Imidacloprid 4SC may be made to crops through overhead sprinkler chemigation systems if specified in crop-specific Application sections Do not apply Willowood Imidacloprid 4SC through any other type of irrigation system

Water Volume
Willowood Imidacloprid 4SC chemigation applications should be made as concentrated as possible Retention of Willowood Imidacloprid 4SC on target site of insect infestation is necessary for optimum activity Chemigation of Willowood Imidacloprid 4SC in water volumes exceeding 0 10 inch/acre is not recommended

Uniform Water Distribution and System Calibration
The irrigation system must provide uniform distribution of treated water Crop injury lack of effectiveness or illegal pesticide residues in the crop can result from non-uniform distribution of treated water The system must be calibrated to uniformly apply the rates specified If you have questions about calibration contact State Extension Service specialists equipment manufacturers or other experts

Chemigation Monitoring
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

Drift
Do not apply when wind speed favors drift beyond the area intended for treatment

Required System Safety Devices
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 backflow The pesticide injection pipeline must contain a functional automatic quick-closing check valve to prevent the flow of fluid back toward the injection pump 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 The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops 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 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

Using Water from Public Water Systems
Public water systems means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year Chemigation systems connected to public water systems must contain a functional reduced-pressure zone back flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction As an option to the RPZ the water from the public water system must be discharged into a reservoir tank prior to pesticide introduction There shall be a complete physical break (air gap) between the outlet end of the fill pipe and to top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe The pesticide injection pipeline must contain a functional automatic quick-closing check valve to prevent the flow of fluid back toward the injection The pesticide injection pipeline must 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 The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or in cases where there is no water pump when the water pressure decreases to the point where

pesticide distribution is adversely affected 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

ROTATIONAL CROPS*

Treated areas may be replanted with any crop specified on an imidacloprid label or any crop for which a tolerance exists for the active ingredient as soon as practical following the last application 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 must be observed

IMMEDIATE PLANT-BACK All crops on this label plus the following crops not on this label barley canola corn (field pop & sweet) rapeseed sorghum soybean sugarbeet and wheat
30-DAY PLANT-BACK Cereals (including buckwheat millet oats rice rye, and triticale) safflower
12-MONTH PLANT-BACK All Other Crops
* Cover crops for soil building or erosion control may be planted any time but do not graze or harvest for food or feed

FIELD CROPS

COTTON - SOIL

Pests Controlled	Rate Fluid ounces per 1000 row-feet	Rate Fluid ounces per acre
Cotton aphid, Plant bugs Thrips Whiteflies	0 65	8 5-10 6 (depending on row-spacing)

Restrictions

Pre-Harvest interval (PHI) 14 days

- Maximum Willowood Imidacloprid 4SC allowed per crop season when making soil applications 10 6 fluid ounces/Acre (0 33 lb ai/A)

Regardless of formulation or method of application apply no more than 0 5 lb active ingredient per acre per season including seed treatment soil and foliar uses

Do not apply more than a total of 6 applications of the active ingredient per season

- Do not graze treated fields after any application of Willowood Imidacloprid 4SC See Resistance Management Section of this label

Applications Apply specified dosage in one of the following methods

1 In-furrow spray during planting directed on or below seed
2 In a narrow band directly below the eventual seed row in a bedding operation 7 or fewer days before planting
3 Chemigation into root-zone through low pressure drip or trickle irrigation

COTTON- FOLIAR

Pests Controlled	**Rate Fluid ounces per acre**
Cotton aphid Cotton fleahopper Bandedwinged whitefly Plant bugs (excludes *Lygus hesperus)* Green stink bug Southern green stink bug Bollworm/bud worm (ovicidal effect)	1 0 – 2 0
Pests Suppressed	
Lygus bug *(Lygus hesperus)* Whiteflies (other than bandedwinged whitefly)	1 5 - 2 0

Restrictions

Pre-Harvest Interval (PHI) 14 days
Minimum interval between applications 7 days
Maximum Willowood Imidacloprid 4SC allowed per crop season when making foliar applications 10 fluid ounces per acre (0 31 lb AI per acre)
Regardless of formulation or method of application apply no more than 0 5 lb active ingredient per acre per season including seed treatment soil and foliar uses
Do not apply more than a total of 6 applications of the active ingredient per season
Do not graze treated fields after any application of Willowood Imidacloprid 4SC See Resistance Management Section of this label

Applications Apply specified rate per acre as a broadcast or directed foliar spray to an infested area as pest populations begin to build Thorough uniform coverage is necessary to achieve optimum control A spray adjuvant may be used to improve coverage Willowood Imidacloprid 4SC may not knockdown established and heavy insect populations Two applications may be required to achieve control Scout fields and retreat if needed Willowood Imidacloprid 4SC may be tank mixed with other insecticides for knockdown of pests or for improved control of other pests

COTTON Tank Mix Instructions

Pests Controlled (in addition to pests listed above)	**Willowood Imidacloprid 4SC Rate Fluid ounces per acre**	**Bidrin® 8* Rate Fluid ounces per acre**
For early season control of Thrips	1 0 - 1 52	1 6 - 3 2
For mid to late season control of Plant bugs Stink bugs (including Brown stink bug) Grasshoppers Saltmarsh caterpillar Cotton leafperforator	1 0 - 1 52	4 0 - 8 0
* Refer to the Bidrin 8 product label for specific use directions Follow the most restrictive precautions and limitations on the labeling of all products used in mixtures		

PEANUT - SOIL[1]

Pests Controlled	**Rate fluid ounces/Acre**
Aphids Leafhoppers Whiteflies	8 0 -12 0
Pest Suppressed	
Thrips	8 0-12 0

Restrictions

Pre-Harvest Interval (PHI) 14 days

Maximum Willowood Imidacloprid 4SC allowed per season 12 0 fluid ounces/Acre (0 38 lb AI/Acre)

Applications Apply specified dosage in one of the following methods

1 In-furrow spray during planting directed on or below seed

2 Chemigation into root-zone through low-pressure drip trickle micro-sprinkler or equivalent equipment

Notes Increases in Tomato spotted wilt virus (TSWV) incidence have been observed with soil applications of Willowood Imidacloprid 4SC on certain varieties of peanut This may also be the case with other tospoviruses or other viruses transmitted by various thrips species or perhaps other pests Prior to applying Willowood Imidacloprid 4SC to peanuts, Willowood recommends consultation with the State Cooperative Extension Service or Willowood representative for recommendations Growers are advised to weigh insect control benefits against potential increase in viral disease levels In areas where TSWV or other tospovirus are endemic growers are encouraged to use virus resistant varieties and consult the University of Georgia Tomato spotted wilt virus index, before applying Willowood Imidacloprid 4SC

[1]Use not permitted in California unless otherwise directed by state specific 24(c) Special Local Needs labeling

PEANUT – FOLIAR[1]

Pests Controlled	**Rate fluid ounces/Acre**
Aphids Leafhoppers Whiteflies	1 4
Pest Suppressed	
Thrips	1 4

Restrictions

Pre-Harvest Interval (PHI) 14 days

Maximum foliar applied Willowood Imidacloprid 4SC allowed per crop season 4 2 fluid ounces/Acre (0 13 lb AI/Acre)

- Minimum interval between foliar applications 5 days

Application

Apply Willowood Imidacloprid 4SC through properly calibrated ground and aerial application equipment

[1]Use not permitted in California unless otherwise directed by state specific 24(c) Special Local Needs labeling

POTATO - SOIL

Pests Controlled	Rate Fluid ounces per 1000 row-feet	Rate Fluid ounces per acre
Aphids Colorado potato beetle Flea beetles Leafhoppers Potato psyllid	0 45 - 0 65	6 5 - 10 0
Pests/Diseases Suppressed		
Symptoms of Potato leaf roll virus (PLRV) Potato yellows Net necrosis Wireworms (with in-furrow spray at-planting)	0 45 - 0 65	6 5 - 10 0

Restrictions

Maximum Willowood Imidacloprid 4SC allowed per crop season when making soil applications 10 0 fluid ounces per acre (0 31 lb active ingredient per acre)

Applications Apply specified dosage in one of the following methods

1 In-furrow spray during planting directed on seed pieces or seed potatoes
2 Subsurface side-dress on both sides of the row covered with 3 or more inches of soil
3 Narrow band spray at ground cracking directly over the row during hilling covered with 3 or more inches of soil
4 Narrow band directly below the eventual seed row in a bedding operation 7 or fewer days before planting For effective pest control or suppression Willowood Imidacloprid 4SC applications must be placed below soil-surface and in contact with seed piece or within root-zone For potatoes grown on highly permeable soils with shallow water table at-plant applications of Willowood Imidacloprid 4SC may be made in a 2 to 4 inch band (width of planter shoe opening) and completely covered

POTATO - seed piece treatment

Pests Controlled	Rate Fluid ounces per 100 lbs of seed	Rate Fluid ounces per acre*
Aphids Colorado potato beetle Flea beetles Leafhoppers Potato psyllid Wireworms (seed-piece protection)	0 2 - 0 4	4 0 - 8 0
Pests/Diseases Suppressed	**Rate Fluid ounces per 1000 row-feet**	**Rate Fluid ounces per acre**
Symptoms of Potato leaf roll virus (PLRV) Potato yellows Net necrosis	0 4	8 0

Restrictions

- Maximum Willowood Imidacloprid 4SC allowed per crop season when making seed piece treatment applications 10 0 fluid ounces per acre (0 31 lb active ingredient per acre)
- Do not use treated seed-pieces for food feed, or fodder
  Do not apply any subsequent application of Willowood Imidacloprid 4SC or other imidacloprid product (in-furrow) following a Willowood Imidacloprid 4SC seed-piece treatment

Application Apply specified dosage as a diluted spray onto seed-pieces using a shielded spray system Dilute with 3 parts water or less to 1 part Willowood Imidacloprid 4SC Agitate or stir spray solution as needed Fungicidal or inert absorbent dusts may be applied after Willowood Imidacloprid 4SC application Apply only in areas with adequate ventilation or in areas that are equipped to remove spray mist or dust Plant seed pieces as soon as possible after treating avoiding prolonged exposure of Willowood Imidacloprid 4SC treated seed-pieces to sunlight and in accordance with the direction of your local Extension service

* Based on a seeding rate of 2000 lbs per acre

POTATO FOLIAR

Pests Controlled	Rate Fluid ounces per acre
Aphids Colorado potato beetle Flea beetles Leafhoppers Psyllids	1 5

Restrictions

Minimum Interval between applications 7 days

Maximum Willowood Imidacloprid 4SC allowed per crop season when making foliar applications 6 4 fluid ounces per acre (0 2 lb AI/acre)

Applications Apply specified rate per acre as a broadcast or directed foliar spray to an infested area as pest populations begin to build Thorough uniform coverage is necessary to achieve optimum control A spray adjuvant may be used to improve coverage Willowood Imidacloprid 4SC may not knockdown established and heavy insect populations Two applications may be required to achieve control Scout fields and retreat if needed Willowood Imidacloprid 4SC maybe tank mixed with other insecticides as specified for knockdown of pests or for improved control of other pests

SOYBEANS[1] - FOLIAR

Pests Controlled	Rate Fluid ounces per acre
Aphids Bean leaf beetle Cucumber beetles/Rootworm adults Japanese beetle (adults) Leafhoppers Whiteflies	1 5

Restrictions

Pre-harvest Interval (PHI) 7 days

Minimum interval between applications 7 days

• Maximum Willowood Imidacloprid 4SC allowed per crop season 4 5 fl oz/acre (0 14 lb AI/A)

Applications Apply Willowood Imidacloprid 4SC through properly calibrated ground and aerial application equipment

[1]Not for use in California unless accompanied by approved state specific 24(c) Special Local Needs labeling

TOBACCO- TRAY DRENCH/SOIL

Pests Controlled	**Rate Fluid ounces per 1000 plants (as seedling tray drench)**	**Rate Fluid ounces per 1000 plants (in furrow or transplant-water)**
Aphids Flea beetles	0 5	0 7
Mole crickets Whiteflies Wireworms	0 7 - 1 4	0 9 -1 4
Pests/Disease Suppressed		
Cutworms Symptoms of Tomato spotted wilt virus (TSWV)	0 7 - 1 4	0 9 -1 4

Restrictions

- Pre-Harvest Interval (PHI) 14 days

Maximum Willowood Imidacloprid 4SC allowed per crop season 16 0 fluid ounces per acre (0 5 lb ai/A)

Applications Apply specified dosage in one of the following methods

1 Uniform broadcast foliar spray to seedlings in trays (tray drench) not more than 7 days prior to transplanting followed immediately by overhead irrigation to wash Willowood Imidacloprid 4SC from foliage into potting media Failure to wash Willowood Imidacloprid 4SC from foliage may result in a reduction in pest control Handle transplants carefully during setting to avoid dislodging treated potting media from roots

2 In-furrow spray or transplant-water drench during setting

3 Chemigation into root-zone through low-pressure drip trickle micro-sprinkler or equivalent equipment

Important Note Proper tray drench applications of Willowood Imidacloprid 4SC have been shown to be the most efficacious method of application However the specified rate of Willowood Imidacloprid 4SC may be applied as combination of the tray drench in the planthouse and/or transplant-water drench in field Adverse growing conditions may cause a delay in uptake of Willowood Imidacloprid 4SC into the plant and a delay in control

TOBACCO - FOLIAR

Pests Controlled	**Rate Fluid ounces per acre**
Aphids	0 8 - 1 6
Flea beetles Japanese beetle	1 6

Restrictions

Pre-Harvest Interval (PHI) 14 days

Minimum interval between applications 7 days

Maximum Willowood Imidacloprid 4SC allowed per crop season 9 0 fluid ounces per acre (0 28 lb AI/acre)

Applications Apply specified rate per acre as a broadcast or directed foliar spray to an infested area as pest populations begin to build Thorough uniform coverage is necessary to achieve optimum control A spray adjuvant may be used to improve coverage Willowood Imidacloprid 4SC may not knockdown established and heavy insect populations Two applications may be required to achieve control Scout fields and retreat if needed Willowood Imidacloprid 4SC maybe tank mixed with other insecticides for knockdown of pests or for improved control of other pests

VEGETABLE AND SMALL FRUIT CROPS

CUCURBIT VEGETABLES[1] - SOIL

Crops of Crop Group 9 Including Chayote (fruit) Chinese waxgourd (Chinese preserving melon) Citron melon, Cuban pumpkin Cucumber Gherkin Gourd (edible includes hyotan cucuzza hechima, Chinese okra), *Momordica* spp (includes balsam apple, balsam pear bitter melon Chinese cucumber) Muskmelon (hybrids and/or cultivars of *Cucumis melo* including true cantaloupe cantaloupe casaba Crenshaw melon golden pershaw melon, honeydew melon honey balls, mango melon Persian melon pineapple melon, Santa Claus melon snake melon and Winter melon) Pumpkin, Squash (includes summer squash types such as butternut squash calabaza crookneck squash Hubbard squash, scallop squash straightneck squash vegetable marrow and zucchini, and winter squash types such as acorn squash and spaghetti squash), Watermelon (includes hybrids and/or varieties of *Citrullus lanatus)*

Field Application Instructions (See Planthouse table for additional instructions)	
Pests Controlled	**Rate Fluid ounces per acre**
Aphids Cucumber beetles Leafhoppers Thrips (foliage feeding thrips only) Whiteflies	8 0-12 0
Diseases Suppressed	
Bacterial wilt (as vectored by various cucumber beetles) Leaf silvering resulting from whitefly feeding	8 0-12 0

Restrictions

Pre-Harvest Interval (PHI) 21 days

Maximum Willowood Imidacloprid 4SC allowed per application when making soil applications 12 0 fluid ounces per acre (0 38 lb AI/A)

Applications Apply in one of the following methods

1 Chemigation into root-zone through low- pressure drip trickle, micro-sprinkler or equivalent equipment
2 In-furrow spray directed on or below seed
3 Narrow (2" or less) surface band spray over seed-line during planting incorporated to a depth of 1 to 1-1/2 inches with sufficient irrigation within 24 hours of application
4 Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting
5 Post-seeding drench, transplant-water drench, or hill drench
6 Subsurface side-dress on both sides of each row Willowood Imidacloprid 4SC must be incorporated into root-zone

[1]Not for use on crops grown for seed unless allowed by state specific 24(c) Special Local Needs labeling

CUCURBIT VEGETABLES[1] Planthouse Application Instructions[1]

Pests Controlled	Rate Fluid ounces per 1000 plants
Aphids Whiteflies	0 05

Restrictions

Maximum amount Willowood Imidacloprid 4SC applied in the planthouse 0 05 fluid ounces (0 00156 lb active ingredient per 1000 plants)

Maximum number Willowood Imidacloprid 4SC applications in planthouse 1

Applications Apply specified dosage to seedlings in trays in the planthouse targeting soil media (tray drench) not more than 7 days prior to transplanting, in one of the following methods

1 Uniform broadcast high-volume foliar spray followed immediately by sufficient overhead irrigation to wash Willowood Imidacloprid 4SC from foliage into potting media without loss of gravitational liquid from the bottom of the tray Failure to wash Willowood Imidacloprid 4SC from foliage may result in reduced pest control

2 Injection into overhead irrigation system using adequate volume to thoroughly saturate soil media without loss of gravitational solution from the bottom of the tray

The application made in the planthouse will only provide short-term protection and is not intended as a substitution for a field application An additional field application must be made within 2 weeks following transplanting to provide continuous protection Applications of higher rates or increased number of applications in planthouse may result in significant plant injury Handle transplants carefully during setting to avoid dislodging treated potting media from roots

Important Note Not all varieties of cucurbit vegetables have been tested for tolerance to Willowood Imidacloprid 4SC applied to seedling flats Treat a small number of plants to confirm tolerance for 7 days prior to treating entire planthouse

[1]Use not permitted in California unless otherwise directed by state specific 24(c) Special Local Needs labeling

BULB VEGETABLE[1] - SOIL

Crops of Crop Group 3-07 Including Chive (fresh leaves) Chinese chive (fresh leaves) Daylily (bulb) Elegans hosta Fritillaria (bulb and leaves) Garlic (common group great-headed group serpent group) Kurrat group Leek group (including common lady s and wild) Lily (bulb) Onion (bulb and green leaves including common group Beltsville bunching Chinese bulb fresh green macrostem Pearl group, potato onion group tree onion-tops Welsh-tops) Shallot plus cultivars varieties and/or hybrids of these

Pests Controlled	Rate fluid ounces/Acre
Thrips (foliage feeding thrips only)	16 0

Restrictions

- Pre-Harvest Interval (PHI) 21 days
- Maximum Willowood Imidacloprid 4SC allowed per crop season 16 0 fluid ounces/Acre (0 5 lb AI/Acre)

Applications Apply specified dosage in one of the following methods

1 Chemigation into root-zone through low-pressure drip trickle micro-sprinkler or equivalent equipment

2 In-furrow spray directed on or below seed

3 Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting

4 Post-seeding drench transplant water drench or hill drench

Applications made to higher organic matter soils may result in reduced or shortened activity on pest

[1]Not for use on crops grown for seed unless allowed by state specific 24(c) Special Local Needs labeling

GREENHOUSE VEGETABLES[1] - SOIL

(Mature plants in production greenhouses - Cucumber Tomato only)

Pests Controlled	Rate Fluid ounces per 1000 plants
Aphids Whiteflies	0 7

Restrictions

- Pre-Harvest Interval (PHI) 0 day
- Maximum number Willowood Imidacloprid 4SC applications per crop season when making soil applications 1

Applications Apply specified dosage in a minimum of 16 gallons of water for tomatoes and 21 gallons of water for cucumbers using soil drenches micro-irrigation drip irrigation, or hand-held or motorized calibrated irrigation equipment Make application only to plants grown in field-type soils potting media or mixtures thereof Do not apply to plants grown in non-soil medias such as perlite vermiculite rock wool or other soil-less media or plants growing hydroponically Do not apply to immature plants since phytotoxicity may occur

Make application when infestation pressure surpasses threshold and beneficials are not able to maintain pest populations below damage thresholds Repellency of bumble bee pollinators and negative effects on some beneficials (*Orusspp)* can occur when Willowood Imidacloprid 4SC is applied

Many varieties of vegetables have been tested for tolerance to Willowood Imidacloprid 4SC and show good safety However, certain varieties may show more sensitivity to Willowood Imidacloprid 4SC Treat a few plants before treating the whole greenhouse

[1] Not for use on crops grown for seed unless allowed by state specific 24(c) Special Local Needs labeling

FRUITING VEGETABLES[1] - SOIL

Crops of Crop Group 8 plus Okra including Eggplant Ground cherry Okra Pepper (including bell chili cooking pimento and sweet) Tomato Pepinos Tomatillo

Field Application Instructions See details below for additional plant-house instructions	
Pests Controlled	**Rate Fluid ounces per acre**
Aphids Colorado potato beetle Flea beetles Leafhoppers Thrips (foliage feeding thrips only) Whiteflies	Okra and Pepper 8 0-16 0 Other Crops 8 0-12 0
Diseases Suppressed	
Symptoms of Tomato mottle virus, Tomato spotted wilt virus Tomato yellow leaf curl virus	Okra and Pepper 8 0-16 0 Other Crops 8 0-12 0

Restrictions

Pre-Harvest Interval (PHI) 21 days

Maximum Willowood Imidacloprid 4SC allowed on pepper and okra crops per application when making soil applications 16 0 fluid ounces/Acre (0 5 lb A I per acre)

Maximum Willowood Imidacloprid 4SC allowed on other fruiting vegetable crops per application when making soil applications 12 0 fluid ounces/Acre (0 38 lb AI/per acre)

Applications Apply specified dosage in one of the following methods

1. Chemigation into root-zone through low-pressure drip trickle, micro-sprinkler or equivalent equipment
2. In-furrow spray directed on or below seed
3. Narrow (2" or less) surface band spray over seed-line during planting incorporated to a depth of 1 to 1-1/2 inches with sufficient irrigation within 24 hours of application
4. Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting
5. Post-seeding drench transplant-water drench or hill drench
6. Subsurface side-dress on both sides of each row Willowood Imidacloprid 4SC must be incorporated into root-zone

[1]Not for use on crops grown for seed unless allowed by state specific 24(c) Special Local Needs labeling

FRUITING VEGETABLES Planthouse Application Instructions[1]	
Pests Controlled	**Rate Fluid ounces 1000 plants**
Aphids Whiteflies	0 05

Restrictions

Maximum amount Willowood Imidacloprid 4SC applied in the planthouse 0 05 fluid ounces (0 00156 lb A I) per 1000 plants

- Maximum number Willowood Imidacloprid 4SC applications in planthouse 1

Applications Apply specified dosage to seedlings in trays in the planthouse targeting soil media (tray drench) not more than 7 days prior to transplanting in one of the following manners

1 Uniform broadcast high-volume foliar spray followed immediately by sufficient overhead irrigation to wash Willowood Imidacloprid 4SC from foliage into potting media without loss of gravitational liquid from the bottom of the tray Failure to wash Willowood Imidacloprid 4SC from foliage may result in reduced pest control

2 Injection into overhead irrigation system using adequate volume to thoroughly saturate soil media without loss of gravitational solution from the bottom of the tray

The application made in the planthouse will only provide short-term protection and is not intended as a substitution for a field application An additional field application must be made within 2 weeks following transplanting to provide continuous protection Applications of higher rates or increased number of applications in planthouse may result in significant plant injury Handle transplants carefully during setting to avoid dislodging treated potting media from roots

Important Note Not all varieties of fruiting vegetables have been tested for tolerance to Willowood Imidacloprid 4SC applied to seedling flats Treat a small number of plants to confirm tolerance for 7 days prior to treating entire planthouse

[1]Use not permitted in CA unless otherwise directed by state specific 24(c) Special Local Needs labeling

FRUITING VEGETABLES [1] FOLIAR **Crops of Group 8 plus Okra, Including** Eggplant Ground cherry Okra Pepper (including bell chili cooking pimento and sweet) Tomato Pepinos, Tomatillo	
Pests Controlled	**Rate Fluid ounces/Acre**
Pepper weevil (Pepper only)	2 5
Aphids Colorado potato beetle Leafhoppers Whiteflies	1 5-2 5

Restrictions

Pre-Harvest Interval (PHI) 0 day

Minimum interval between applications 5 days

Maximum Willowood Imidacloprid 4SC allowed per crop season when making foliar applications 7 7 fluid ounces per acre (0 24 lb AI/A)

Applications Apply specified rate per acre as a broadcast or directed foliar spray to infested area as pest populations begin to build Thorough uniform coverage is necessary to achieve optimum control A spray adjuvant may be used to improve coverage Willowood Imidacloprid 4SC may not knockdown established and heavy insect populations Two applications may be required to achieve control Scout fields and retreat if needed Willowood Imidacloprid 4SC may be tank mixed with other insecticides for knockdown of pests or for improved control of other pests For pepper weevil apply specified dosage of Willowood Imidacloprid 4SC by ground equipment only timing applications prior to a damaging population becoming established Good coverage of foliage and fruit is necessary for optimum control Applications of Willowood Imidacloprid 4SC must be incorporated into a full-season program where alternations of effective products from multiple classes of chemistry and different modes of action are utilized in a blocked or windowed approach For additional information please contact your Willowood LLC representative Extension Specialist or crop advisor When targeting adult whiteflies use higher rates within the listed rate range

[1] Not for use on crops grown for seed unless allowed by state specific 24(c) Special Local Needs labeling

GLOBE ARTICHOKE - SOIL

Pests Controlled	Rate Fluid ounces per acre
Aphids Leafhoppers	8 0 – 16 0

Restrictions
Pre Harvest Interval (PHI) 7 days
Maximum Willowood Imidacloprid 4SC allowed per crop season when making soil applications 16 fluid ounces per acre (0 5 lb AI/Acre)
Applications Apply specified dosage in one of the following methods
1 Chemigation into root-zone through low-pressure drip trickle micro-sprinkler or equivalent equipment
2 In-furrow spray at planting directed on or below seed

GLOBE ARTICHOKE - FOLIAR

Pests Controlled	Rate Fluid ounces per acre
Aphids Leafhoppers	1 6-4 0

Restrictions
Pre-Harvest Interval (PHI) 7 days
Minimum interval between applications 14 days
Maximum Willowood Imidacloprid 4SC allowed per crop season when making foliar applications 16 fluid ounces per acre (0 5 lb AI/Acre)
Applications Apply specified rate per acre as a broadcast or directed foliar spray to infested area as pest populations begin to build Thorough uniform coverage is necessary to achieve optimum control A spray adjuvant may be used to improve coverage Willowood Imidacloprid 4SC may not knockdown established and heavy insect populations Two applications may be required to achieve control Scout fields and retreat if needed Willowood Imidacloprid 4SC may be tank mixed with other insecticides for knockdown of pests or for improved control of other pests

HERBS[1] SOIL
Crops of Crop Subgroup 19A including Angelica Balm (lemon balm) Basil (fresh and dried) Borage Bumet Chamomile Catnip Chervil (dried) Chinese chive Chive, Clary Coriander (cilantro or Chinese parsley leaves) Costmary Cilantro (leaf) Curry (leaf) Dillweed Horehound Hyssop Lavender Lemongrass Lovage (leaf) Marigold Marjoram Nasturtium Parsley (dried) Pennyroyal Rosemary Rue Sage Savory (summer and winter) Sweet bay (bay leaf) Tansy Tarragon Thyme Wintergreen Woodruff Wormwood

Pests Controlled	Rate Fluid ounces per acre
Aphids Flea beetles Leafhoppers Whiteflies	8 0-12 0
Pests Suppressed	
Thrips (foliage feeding thrips only)	8 0-12 0

Restrictions
Pre-Harvest Interval (PHI) 14 days
Maximum Willowood Imidacloprid 4SC per season when making soil applications 12 0 fluid ounces/Acre (0 38 lb AI/Acre)
Applications Apply specified dosage in one of the following methods
1 In-furrow spray during planting directed on or below seed
2 In-furrow spray or transplant-water drench during setting or transplanting
3 Shanked-into or below eventual seed-line
4 Chemigation into root-zone through low-pressure drip trickle micro-sprinkler or equivalent equipment
Notes Not all crops and/or varieties listed above have been tested for phytotoxic effects Without specific knowledge about a particular crop and variety treat only small areas or numbers of plants and evaluate effectiveness prior to commercial use
[1] Use not permitted in CA unless otherwise directed by state specific 24(c) Special Local Needs labeling

HERBS[1]- FOLIAR

Crops of Crop Subgroup 19A including Angelica Balm (lemon balm) Basil (fresh and dried) Borage Bumet Chamomile Catnip, Chervil (dried) Chinese chive Chive Clary Coriander (cilantro or Chinese parsley leaves) Costmary Cilantro (leaf), Curry (leaf) Dillweed, Horehound Hyssop Lavender Lemongrass Lovage (leaf) Marigold Marjoram Nasturtium Parsley (dried) Pennyroyal Rosemary Rue, Sage Savory (summer and winter) Sweet bay (bay leaf) Tansy Tarragon Thyme Wintergreen Woodruff Wormwood

Pests Controlled	Rate Fluid ounces per acre
Aphids, Flea beetles Leafhoppers Whiteflies	1 4

Restrictions

Pre-Harvest Interval (PHI) 7 days

Minimum interval between applications 5 days

• Maximum Willowood Imidacloprid 4SC allowed per season when making foliar applications 4 2 fluid ounces per acre (0 13 lb AI/Acre)

Applications Apply Willowood Imidacloprid 4SC through properly calibrated ground and aerial application equipment Thorough coverage with direct contact of the spray material to the target pests is required for optimum control

Note Not all crops and/or varieties listed above have been tested for phytotoxic effects Without specific knowledge about a particular crop and variety treat only small areas or numbers of plants and evaluate effectiveness prior to commercial use

[1] Use not permitted in CA unless otherwise directed by state specific 24(c) Special Local Needs labeling

BRASSICA (COLE) LEAFY VEGETABLES[1] - SOIL

Crops of Crop Group 5 including Broccoli Broccoli raab (rapini) Brussels sprouts Cabbage Cauliflower Cavalo broccoli Chinese (gai lan) broccoli Chinese (bok choy) cabbage Chinese (napa) cabbage Chinese mustard (gai choy) cabbage Collards Kale Kohlrabi Mizuna Mustard greens Mustard spinach Rape greens Turnip tops (leaves)

Pests Controlled	Rate Fluid ounces per acre (on 36 inch rows)
Aphids, Leafhoppers Thrips (foliage feeding thrips only) Whiteflies	5 0-12 0

Restrictions

• Pre-Harvest Interval (PHI) 21 days

• Maximum Willowood Imidacloprid 4SC allowed per application when making soil applications 12 0 fluid ounces/Acre (0 38 lb AI/Acre)

Applications Apply specified dosage in one of the following methods

1 Chemigation into root-zone through low-pressure drip trickle micro-sprinkler or equivalent equipment
2 In-furrow spray directed on or below seed
3 Narrow (2 inches or less) surface band spray over seed-line during planting incorporated to a depth of 1 to 1-1/2 inches with sufficient irrigation within 24 hours of application
4 Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting
5 Post-seeding drench transplant-water drench or hill drench
6 Subsurface side-dress on both sides of each row Willowood Imidacloprid 4SC must be incorporated into root-zone

[1] Not for use on crops grown for seed unless allowed by state specific 24(c) Special Local Needs labeling

BRASSICA (COLE) LEAFY VEGETABLES [1] - FOLIAR

Crops of Crop Group 5 including Broccoli Broccoli raab (rapini) Brussels sprouts Cabbage Cauliflower Cavalo broccoli Chinese (gai lan) broccoli Chinese (bok choy) cabbage Chinese (napa) cabbage Chinese mustard (gai choy) cabbage Collards Kale Kohlrabi Mizuna Mustard greens Mustard spinach Rape greens Turnip tops (leaves)

Pests Controlled	Rate Fluid ounces per acre
Aphids Fleabeetles Leafhoppers Whiteflies	1 5

Restrictions

Pre-Harvest Interval (PHI) 7 days

- Minimum interval between applications 5 days

Maximum Willowood Imidacloprid 4SC allowed per crop season when making foliar applications 7 7 fluid ounces/Acre (0 24 lb AI/Acre)

Applications Apply specified rate per acre as a broadcast or directed foliar spray through properly calibrated ground aerial or chemigation application equipment to infested area as pest populations begin to build Thorough uniform coverage is necessary to achieve optimum control A spray adjuvant may be used to improve coverage Willowood Imidacloprid 4SC may not knockdown established and heavy insect populations Two applications may be required to achieve control Scout fields and retreat if needed Willowood Imidacloprid 4SC may be tank mixed with other insecticides for knockdown of pests or for improved control of other pests

[1] Not for use on crops grown for seed unless allowed by state specific 24(c) Special Local Needs labeling

LEAFY VEGETABLES [1] - SOIL

Crops of Crop Subgroup 4A plus Watercress including Amaranth (leafy amaranth Chinese spinach tampala) Arugula (Roquette) Chervil Chrysanthemum (edible leaved and garland) Cilantro Corn salad Cress (garden) Cress (upland yellow rocket winter cress) Dandelion Dock (sorrel) Endive (escarole) Lettuce (head and leaf) Orach Parsley Purslane (garden and winter) Radicchio (red chicory) Spinach (including New Zealand and vine (Malabar spinach Indian spinach)) Watercress (commercial production only applications must not be made to native cress growing in streams or other bodies of water) Watercress (upland)

Pests Controlled	Rate Fluid ounces per acre (on 36 inch rows)
Aphids Leafhoppers Thrips (foliage feeding thrips only) Whiteflies	5 0-12 0

Restrictions

Pre-Harvest Interval (PHI) 21 days

Maximum Willowood Imidacloprid 4SC allowed per application when making soil applications 12 0 fluid ounces per acre (0 38 lb AI per Acre)

Applications Apply specified dosage in one of the following methods

1. Chemigation into root-zone through low-pressure drip, trickle micro-sprinkler or equivalent equipment
2. In-furrow spray directed on or below seed
3. Narrow (2 inches or less) surface band spray over seed-line during planting incorporated to a depth of 1 to 1-1/2 inches with sufficient irrigation within 24 hours of application
4. Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting
5. Post-seeding drench transplant water drench or hill drench
6. Subsurface side-dress on both sides of each row Willowood Imidacloprid 4SC must be incorporated into root-zone

[1] Not for use on crops grown for seed unless allowed by state specific 24(c) Special Local Needs labeling

Leafy Vegetables[1] - FOLIAR

Crops of Crop Subgroup 4A plus Watercress including Amaranth (leafy amaranth Chinese spinach tampala) Arugula (Roquette) Chervil Chrysanthemum (edible leaved and garland) Cilantro Corn salad Cress (garden) Cress (upland yellow rocket winter cress) Dandelion Dock (sorrel) Endive (escarole) Lettuce (head and leaf) Orach Parsley Purslane (garden and winter) Radicchio (red chicory) Spinach (including New Zealand and vine (Malabar spinach Indian spinach) Watercress (commercial production only applications must not be made to native cress growing in streams or other bodies of water) Watercress (upland)

Pests Controlled	Rate Fluid ounces per acre
Aphids Flea beetles Leafhoppers Whiteflies	1 5

Restrictions

- Pre-Harvest Interval (PHI) 7 days

Minimum interval between applications 5 days

Maximum Willowood Imidacloprid 4SC allowed per crop season when making foliar applications 7 7 fluid ounces per acre (0 24 lb AI/Acre)

Applications Apply specified rate per acre as a broadcast or directed foliar spray to infested area as pest populations begin to build Thorough uniform coverage is necessary to achieve optimum control A spray adjuvant may be used to improve coverage Willowood Imidacloprid 4SC may not knockdown established and heavy insect populations Two applications may be required to achieve control Scout fields and retreat if needed Willowood Imidacloprid 4SC may be tank mixed with other insecticides for knockdown of pests or for improved control of other pests

For applications made to watercress production fields must be drained of water at least 24 hours prior to application and water must not be reapplied to the field for a minimum of 24 hours following the applications Applications must be made to fully leafed-up canopies only

[1] Not for use on crops grown for seed unless allowed by state specific 24(c) Special Local Needs labeling

LEAFY PETIOLE VEGETABLES [1] - SOIL

Crops of Crop Subgroup 4B including Cardoon Celery Celtuce Chinese celery (fresh leaves and stalk only) Florence fennel (including sweet anise sweet fennel Finocchio) Rhubarb Swiss chard

Pests Controlled	Rate Fluid ounces per acre
Aphids Leafhoppers Thrips (foliage feeding thrips only) Whiteflies	5 0-12 0

Restrictions

Pre-Harvest Interval (PHI) 45 days

Maximum Willowood Imidacloprid 4SC allowed per application when making soil applications 12 0 fluid ounces/Acre (0 38 lb AI per acre)

Applications Apply specified dosage in one of the following methods

1. Chemigation into root-zone through low-pressure drip, trickle micro-sprinkler or equivalent equipment
2. In-furrow spray directed on or below seed
3. Narrow (2 inches or less) surface band spray over seed-line during planting incorporated to a depth of 1 to 1-1/2 inches with sufficient irrigation within 24 hours of application
4. Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting
5. Post-seeding drench transplant-water drench or hill drench
6. Subsurface side-dress on both sides of each row Willowood Imidacloprid 4SC must be incorporated into root-zone

[1] Not for use on crops grown for seed unless allowed by state specific 24(c) Special Local Needs labeling

LEGUME VEGETABLES[1] except soybean, dry - SOIL
Crops of Crop Group 6 including Edible Podded and Succulent Shelled Pea and Bean and Dried Shelled Pea and Bean
Bean *(Lupinus* spp includes grain lupin sweet lupin white lupin and white sweet lupin)
Bean *(Phaseolus* spp includes field bean kidney bean lima bean navy bean pinto bean runner bean snap bean, tepary bean wax bean)
Bean *(Vigna* spp includes adzuki bean asparagus bean blackeyed pea cat-jang Chinese longbean cowpea Crowder pea moth bean mung bean rice bean Southern pea urd bean yardlong bean)
Pea *(Pisum* spp includes dwarf pea, edible-pod pea English pea field pea garden pea green pea snow pea sugar snap pea)
Other Beans and Peas [Broad bean (fava) Chickpea (garbanzo bean) Guar Jackbean Lablab bean (hyacinth bean) Lentil Pigeon pea Soybean (immature seed) Sword bean]

Pests Controlled	**Rate Fluid ounces per acre**
Aphids, Leafhoppers, Thrips (foliage feeding thrips only) Whiteflies	8 0-12 0
Diseases Suppressed	
Symptoms of Bean common mosaic virus (BCMV) Bean golden mosaic virus (BGMV) Beet curly top hybrigeminivirus (BCTV)	8 0-12 0

Restrictions
Pre-Harvest Interval (PHI) 21 days
• Maximum Willowood Imidacloprid 4SC allowed per crop season when making soil applications 12 0 fluid ounces/Acre (0 38 lb AI per acre)
Applications Apply specified dosage in one of the following methods

1. Chemigation into root-zone through low-pressure drip trickle micro-sprinkler or equivalent equipment
2. In-furrow spray at planting directed on or below seed
3. In a narrow (2 inches or less) surface band over seed-line during planting incorporated to a depth of 1 to 1-1/2 inches with sufficient irrigation with 24 hours following application
4. In a narrow band directly below the eventual seed row in a bedding operation 7 or fewer days before planting
5. As a post-seeding drench transplant drench, or hill drench

[1] Not for use on crops grown for seed unless allowed by state specific 24(c) Special Local Needs labeling

LEGUME VEGETABLES[1] except soybean, dry - FOLIAR
Crops of Crop Group 6 including Edible Podded and Succulent Shelled Pea and Bean and Dried Shelled Pea and Bean
Bean *(Lupinus* spp includes grain lupin, sweet lupin white lupin and white sweet lupin)
Bean *(Phaseolus* spp includes field bean kidney bean lima bean navy bean pinto bean runner bean, snap bean tepary bean wax bean)
Bean *(Vigna* spp includes adzuki bean asparagus bean blackeyed pea, cat-jang, Chinese longbean cowpea Crowder pea moth bean mung bean rice bean Southern pea urd bean yardlong bean)
Pea *(Pisum* spp includes dwarf pea edible-pod pea English pea field pea garden pea green pea snow pea sugar snap pea)
Other Beans and Peas [Broad bean (fava) Chickpea (garbanzo bean) Guar Jackbean Lablab bean (hyacinth bean), Lentil Pigeon pea Soybean (immature seed), Sword bean]

Pests Controlled	Rate Fluid ounces per acre
Aphids Leafhoppers Whiteflies	1 4

Restrictions
• Pre-Harvest Interval (PHI) 7 days
Minimum interval between applications 7 days
Maximum Willowood Imidacloprid 4SC allowed per crop season when making foliar applications 4 2 fluid ounces per acre (0 13 lb AI/Acre)
Applications Apply specified rate per acre as a broadcast or directed foliar spray to infested area as pest populations begin to build Thorough uniform coverage is necessary to achieve optimum control A spray adjuvant may be used to improve coverage Willowood Imidacloprid 4SC may not knockdown established and heavy insect populations Two applications may be required to achieve control Scout fields and retreat if needed Willowood Imidacloprid 4SC may be tank mixed with other insecticides for knockdown of pests or for improved control of other pests
[1] Not for use on crops grown for seed unless allowed by state specific 24(c) Special Local Needs labeling

ROOT VEGETABLES [1] SOIL

Crops of Crop Subgroup 1B except Sugarbeet plus Kava including Beet (garden)[2] Burdock (edible)[2] Carrot[2] Celeriac[2] Chervil (turnip-rooted)[2] Chicory[2] Ginseng, Horseradish Kava[2 3], Parsley (turnip-rooted) Parsnip[2] Radish[2] Oriental radish (diakon)[2] Rutabaga[2] Salsify (oyster plant) Salsify (black)[2] Salsify (Spanish) Skirret and Turnip[2]

Pests Controlled	Rate Fluid ounces per 1000 row-feet	Rate Fluid ounces per acre
Aphids Flea beetles Leafhoppers Thrips (foliage feeding thrips only) Whiteflies	0 4-0 9	5 0-12 0

Restrictions

Pre-Harvest Interval (PHI) 21 days

• Maximum Willowood Imidacloprid 4SC allowed per crop season when making soil applications 12 0 fluid ounces/Acre (0 38 lb AI per acre)

• Maximum Willowood Imidacloprid 4SC soil applications per crop season 1

Application Apply specified dosage in one of the following methods

1 Chemigation into root-zone through low-pressure drip trickle micro-sprinkler or equivalent equipment

2 In-furrow spray (rate specified per 1000 row-feet) or shanked-in 1 to 2 inches below seed depth during planting

3 In a narrow (2 inches or less) band directly (1 to 2 inches) below the eventual seed row in a bedding operation 14 or fewer days before planting

The rate applied affects the length of control Use higher rates within the listed rate range where infestations occur later in crop development or where pest pressure is continuous Willowood Imidacloprid 4SC rates less than 0 7 fluid ounces/1000 row-feet will not provide adequate residual pest control Willowood Imidacloprid 4SC treated crops grown on very high organic matter soils (muck) may also require additional pest management control

[1] Not for use on crops grown for seed unless allowed by a state specific 24(c) Special Local Needs labeling

[2] Tops or greens from these crops may be utilized for food or feed

[3] Not permitted for use in CA unless otherwise directed by state specific 24(c) Special Local Needs labeling

ROOT VEGETABLES[1] - FOLIAR

Crops of Crop Subgroup 1B except Sugarbeet plus Kava including Beet (garden)[2] Burdock (edible)[2] Carrot[2] Celeriac[2] Chervil (turnip-rooted)[2] Chicory[2] Ginseng Horseradish Kava[2 3] Parsley (turnip-rooted) Parsnip[2] Radish[2] Oriental radish (diakon)[2] Rutabaga[2] Salsify (oyster plant) Salsify (black)[2] Salsify (Spanish) Skirret Turnip[2]

Pests Controlled	Rate Fluid ounces per acre
Aphids, Flea beetles, Leafhoppers, Whiteflies	1 4

Restrictions

• Pre-Harvest Interval (PHI) 7 days

Minimum interval between applications 5 days

• Maximum Willowood Imidacloprid 4SC allowed per crop season when making foliar applications 1 4 fluid ounces per acre (0 44 lb AI per acre) on Radish 4 2 fluid ounces per acre (0 13 lb AI per acre) on other crops

Maximum Willowood Imidacloprid 4SC application(s) per crop season 1 on radish 3 on all other crops

Applications Apply specified rate per acre as a broadcast or directed foliar spray to infested area as pest populations begin to build Thorough uniform coverage is necessary to achieve optimum control A spray adjuvant may be used to improve coverage Willowood Imidacloprid 4SC may not knockdown established and heavy insect populations Two applications may be required to achieve control Scout fields and retreat if needed Willowood Imidacloprid 4SC may be tank mixed with other insecticides for knockdown of pests or for improved control of other pests

[1] Not for use on crops grown for seed unless allowed by state specific 24(c) Special Local Needs labeling

[2] Tops or greens from these crops may be utilized for food or feed

[3] Not permitted for use in CA unless otherwise directed by state specific 24(c) Special Local Needs labeling

TUBEROUS and CORM VEGETABLES[1] - SOIL

Crops of Crop Subgroup 1C including Arracacha Arrowroot Artichoke (Chinese and Jerusalem) Canna (edible Queensland arrowroot) Cassava (bitter and sweet)[2] Chayote (root) Chufa Dasheen (taro)[2] Ginger Leren Sweet potato Tanier (cocoyam)[2] Turmeric Yam bean (jicama manioc pea) Yam (true)[2] (For specified applications on potato see Field Crops section)

Pests Controlled	Rate Fluid ounces per 1000 row feet	Rate Fluid ounces per acre
Aphids Flea beetles Leafhoppers Thrips (foliage feeding thrips only) Whiteflies	0 4-0 9	5 0-12 0

Restrictions

Pre-Harvest Interval (PHI) from planting application 3 days (leaves) 125 days (corms)

Maximum Willowood Imidacloprid 4SC allowed per crop season when making soil applications 12 0 fluid ounces/Acre (0 38 lb AI/Acre)

Maximum Willowood Imidacloprid 4SC soil applications per crop season 1

Applications Apply specified dosage in one of the following methods

1 In-furrow spray (rate specified per 1000 row-feet) over planting materials (hulls) or shanked-in 1 to 2 inches below hulls depth at planting

2 Side-dress not more than 0 3 fluid ounces/1000 row-feet no later than 45 days after planting Observe the same PHI as above

The rate applied affects the length of control Use higher rates within the listed rate range where infestations occur late in crop development or where pest pressure is continuous Willowood Imidacloprid 4SC rates less than 0 35 fluid ounces/1000 row-feet may not provide adequate residual pest control Willowood Imidacloprid 4SC treated crops grown on very high organic matter soils (muck) may also require additional pest management control

[1] Not for use on crops grown for seed unless allowed by state specific 24(c) Special Local Needs labeling

[2] Tops or greens from these crops may be utilized for food or feed

TUBEROUS and CORM VEGETABLES[1] - FOLIAR

Crops of Crop Subgroup 1C including Arracacha Arrowroot Artichoke (Chinese and Jerusalem) Canna (edible Queensland arrowroot) Cassava (bitter and sweet)[2] Chayote (root) Chufa, Dasheen (taro)[2] Ginger Leren Sweetpotato[2] Tanier (cocoyam)[2] Turmeric, Yam bean (jicama manioc pea) Yam (true)[2] (For specified applications on potato see Field Crops section)

Pests Controlled	Rate Fluid ounces per acre
Aphids Flea beetles Leafhoppers Whiteflies	1 4

Restrictions

Pre-Harvest Interval (PHI) 7 days

Minimum interval between applications 5 days

- Maximum Willowood Imidacloprid 4SC allowed per crop season 4 2 fluid ounces per acre (0 13 lb AI/acre)
- Maximum Willowood Imidacloprid 4SC application(s) per crop season 3

Applications Apply specified rate per acre as a broadcast or directed foliar spray to infested area as pest populations begin to build Thorough uniform coverage is necessary to achieve optimum control A spray adjuvant may be used to improve coverage Willowood Imidacloprid 4SC may not knockdown established and heavy insect populations Two applications may be required to achieve control Scout fields and retreat if needed Willowood Imidacloprid 4SC may be tank mixed with other insecticides for knockdown of pests or for improved control of other pests

[1] Not for use on crops grown for seed unless allowed by state specific 24(c) Special Local Needs labeling

[2] Tops or greens from these crops may be utilized for food or feed

STRAWBERRY[1] SOIL

Annual and Perennial Crops	
Pests Controlled	**Rate Fluid ounces per acre**
Aphids Whiteflies	12 0-16 0

Restrictions

- Pre-Harvest Interval (PHI) 14 days
  Maximum Willowood Imidacloprid 4SC allowed per crop season when making soil applications 16 0 fluid ounces/Acre (0 50 lb AI per acre)
- Do not apply immediately prior to bud opening or during bloom or when bees are actively foraging

Applications Apply specified dosage in one of the following methods

1. Chemigation into root-zone through low-pressure drip trickle micro-sprinkler or equivalent equipment after plants are established or on perennial crops in early spring prior to bud opening
2. As a plant material or plant hole treatment just prior to or during transplanting
3. As a band spray over-the-row in a minimum of 20 gallons of water per acre followed immediately by overhead irrigation to incorporate product into root-zone Plastic or other mulches that limit movement of Willowood Imidacloprid 4SC into root zone are not permitted

The rate applied affects the length of control Use higher rates within the listed rate range where infestations may occur later in crop development or where pest pressure is continuous

[1]Do not use both soil application methods on the same crop in the same season

STRAWBERRY[1] Post-harvest Use on Perennial Crops	
Pests Controlled	**Rate Fluid ounces per acre**
White grub complex (grubs of Asiatic garden beetle European and Masked chafer Japanese beetle Oriental beetle)	8 0-12 0

Restrictions

Pre-Harvest Interval (PHI) 14 days

Maximum Willowood Imidacloprid 4SC allowed per season when making soil applications 12 0 fluid ounces per acre (0 38 lb A I per acre)

Applications Apply a single application post harvest to coincide with renovation of strawberry fields and during active egg-laying period of beetles Apply specified dosage of Willowood Imidacloprid 4SC in one of the following methods

1. As a ground spray via boom or backpack sprayer in a minimum of 20 gallons of water per acre
2. As a row-band spray using an adjusted amount of product based on the treated row band area in proportion to the amount required per full acre Make the bandwidth equivalent to the width of the anticipated fruiting bed
3. As a chemigation application with 600 to 1000 gallons of water followed by 0 1 to 0 25 inches irrigation

All soil-surface applications must be followed by 0 25 inches of rainfall or overhead irrigation water per acre within 2 hours of application Failure to adequately incorporate Willowood Imidacloprid 4SC into egg-deposition zone may result in decreased activity

[1] Do not use both application methods on the same crop in the same season

STRAWBERRY - FOLIAR

Pests Controlled	Rate Fluid ounces per acre
Aphids Spittlebugs Whiteflies	1 5

Restrictions
Pre-Harvest Interval (PHI) 7 days
Minimum interval between applications 5 days
• Maximum Willowood Imidacloprid 4SC allowed per crop season when making foliar applications 4 5 fluid ounces per acre (0 14 lb AI per acre)
Do not apply during bloom or within 10 days prior to bloom or when bees are actively foraging
Applications Apply specified rate per acre as a broadcast or directed foliar spray to infested area as pest populations begin to build Thorough uniform coverage is necessary to achieve optimum control A spray adjuvant may be used to improve coverage Willowood Imidacloprid 4SC may not knockdown established and heavy insect populations Two applications may be required to achieve control Scout fields and retreat if needed Willowood Imidacloprid 4SC may be tank mixed with other insecticides for knockdown of pests or for improved control of other pests

SUGARBEET[1] – SOIL (For use only in CA)

Pests Controlled	Rate Fluid ounces per acre
Aphids Leafhoppers Whiteflies Flea beetles	3 0-6 0
Diseases Suppressed	
Symptoms of Western yellows/Beet curly top hybrigeminivirus (BCTV)	3 0-6 0

Restrictions
Maximum Willowood Imidacloprid 4SC allowed per crop season when making soil applications 6 0 fluid ounces/Acre (0 18 lb AI per acre)
Do not apply immediately prior to bud opening or during bloom or when bees are actively foraging
Applications Apply specified dosage in the following method
1 Apply specified dosage in sufficient carrier volume to insure uniform application Apply directly below each seed furrow either during the bedding operation immediately prior to planting or at the time of planting
The low rate may be applied to aid establishment of stands in whitefly areas or for early season control of the other pests listed
[1] Not for use on crops grown for seed unless allowed by state specific 24(c) Special Local Needs labeling

WILLOWOOD IMIDACLOPRID 4SC CONVERSION CHART FOR LINEAR APPLICATION ONLY								
Rate Fluid ounces /Acre	**Rate Fluid ounces/1000 row-feet Based on *average* row spacing (in inches)**							
	10	**15**	**20**	**25**	**30**	**35**	**40**	**45**
10	0 10	0 15	0 19	0 24	0 29	0 34	0 38	0 43
12	0 12	0 17	0 23	0 29	0 35	0 40	0 46	0 52
14	0 14	0 20	0 27	0 34	0 40	0 47	0 54	0 61
16	0 16	0 23	0 31	0 39	0 46	0 54	0 61	0 69
18	0 17	0 26	0 35	0 43	0 52	0 61	0 69	0 78
20	0 19	0 29	0 38	0 48	0 58	0 67	0 77	0 86
22	0 21	0 32	0 42	0 53	0 63	0 74	0 84	0 95
24	0 23	0 35	0 46	0 58	0 69	0 81	0 92	1 04
26	0 25	0 38	0 50	0 62	0 75	0 87	1 00	1 12
28	0 27	0 40	0 54	0 67	0 81	0 94	1 07	1 21
30	0 29	0 43	0 58	0 72	0 86	1 01	1 15	1 29
32	0 31	0 46	0 61	0 76	0 92	1 07	1 23	1 38

Important Note Rate of this product applied affects the length of control and to a considerable extent the degree of control or effect Row-spacing X rate combinations in shaded blocks may not provide adequate residual pest control and are not recommended for long-term residual control Use higher labeled rates where infestations may occur later in crop development or where pest pressure is continuous Willowood offers no warranty for use of this product at rates below 0 35 fluid ounce/1 000 row- feet (the Row-Spacing/Rate combinations that are shaded)

TREE, BUSH, and VINE CROPS

BANANA and PLANTAIN[1] SOIL

Pests Controlled	**Rate Fluid ounces per acre**
Aphids, Leafhoppers	8 0-16 0
Pests Suppressed	
Scales	8 0-16 0

Restrictions

• Pre-Harvest Interval (PHI) 0 day

Maximum Willowood Imidacloprid 4SC allowed per crop season when making soil applications 16 0 fluid ounces per Acre (0 5 lb AI/A)

Applications Apply specified dosage in the following method

1 Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment

[1] Use not permitted in CA unless otherwise directed by state specific 24(c) Special Local Needs labeling

BANANA and PLANTAIN[1] - FOLIAR

Pests Controlled	Rate Fluid ounces per acre
Aphids Leafhoppers Thrips	3 2

Restrictions

- Pre-Harvest Interval (PHI) 0 day
- Minimum interval between applications 14 days

Maximum Willowood Imidacloprid 4SC allowed per crop season when making foliar applications 16 0 fluid ounces per acre (0 5 lb AI per acre)

Applications Apply specified rate per acre as a broadcast or directed foliar spray to infested area as pest populations begin to build Apply Willowood Imidacloprid 4SC through properly calibrated ground or aerial application equipment Thorough uniform coverage is necessary to achieve optimum control A spray adjuvant may be used to improve coverage Willowood Imidacloprid 4SC may not knockdown established and heavy insect populations Two applications may be required to achieve control Scout fields and retreat if needed Willowood Imidacloprid 4SC may be tank mixed with other insecticides for knockdown of pests or from improved control of other pests Aerial application of Willowood Imidacloprid 4SC may result in slower activity and reduced control relative to results from ground application

[1] Use not permitted in California unless otherwise directed by state specific 24(c) Special Local Needs labeling

BUSHBERRY SOIL

Crops of Crop Subgroup 13B Including Blueberry Currant Elderberry Gooseberry Huckleberry Juneberry Lingonberry Salal

Pests Controlled	Rate Fluid ounces per acre
Japanese beetle (adults feeding on foliage) White grub complex (grubs of Asiatic garden beetle European and Masked chafer Japanese beetle and Oriental beetle)	8 0-16 0

Restrictions

Pre-Harvest Interval (PHI) 7 days

Maximum Willowood Imidacloprid 4SC allowed per season when making soil applications 16 0 fluid ounces/Acre (0 5 lb AI per acre)

Do not apply pre-bloom or during bloom or when bees are actively foraging

Applications Apply specified dosage in one of the following methods

1 Chemigation into root-zone through low-pressure drip trickle micro-sprinkler or equivalent equipment
2 18-inch band on each side of the row followed by irrigation immediately after application

For optimal grub control apply Willowood Imidacloprid 4SC to control 1st or 2nd instar larvae Application may be made post-bloom up to 7 days prior to harvest or post-harvest until October 1st For optimum control of Japanese beetle larvae make applications from June 1 to July 15

Application to grass covered rows row middles drive lanes headlands and other grassy areas in and around the berry field will control resident grub populations Applications directed to the root-zone will help protect berry plant roots from grub feeding

Apply Willowood Imidacloprid 4SC to moist soil If necessary apply one hour of irrigation water immediately before application of Willowood Imidacloprid 4SC To ensure maximum efficacy of soil surface spray 1/2 to 1 inch of irrigation water or rainfall needs be applied or received within 24 hours of application of Willowood Imidacloprid 4SC to facilitate movement into the soil and into the root-zone

BUSHBERRY - FOLIAR

Crops of Crop Subgroup 13B Including Blueberry Currant Elderberry Gooseberry Huckleberry Juneberry Lingonberry Salal

Pests Controlled	Rate, Fluid ounces per acre
Aphids Leafhoppers/Sharpshooters	1 2-1 6
Blueberry maggot Japanese beetle (adults) Thrips (foliage feeding thrips only)	2 4-3 2

Restrictions

Pre-Harvest Interval (PHI) 3 days

Minimum interval between applications 7 days

Maximum Willowood Imidacloprid 4SC allowed per crop season when making foliar applications 16 fluid ounces per acre (0 5 lb AI per acre)

• Maximum number of Willowood Imidacloprid 4SC applications per crop season when making foliar applications 5

Minimum application volume (water) 20 0 GPA - ground 5 0 GPA - aerial

Do not apply pre-bloom or during bloom or when bees are actively foraging

Applications Apply specified rate per acre as a broadcast or directed foliar spray to infested area as pest populations begin to build Thorough uniform coverage is necessary to achieve optimum control A spray adjuvant may be used to improve coverage Willowood Imidacloprid 4SC may not knockdown established and heavy insect populations Two applications may be required to achieve control Scout fields and retreat if needed Willowood Imidacloprid 4SC may be tank mixed with other insecticides for knockdown of pests or from improved control of other pests Aerial application of Willowood Imidacloprid 4SC may result in slower activity and reduced control relative to results from ground application For tree and vine crops application rates are based on full-size mature trees or vines

CANEBERRY – SOIL

Crops of Crop Subgroup 13A including

Blackberry *(Rubus eubatus* including bingleberry black satin berry boysenberry Cherokee blackberry Chesterberry Cheyenne blackberry coryberry darrowberry dewberry Dirksen thornless berry Himalayaberry hullberry Lavacaberry Loganberry lowberry Lucretiaberry mammoth blackberry marionberry nectar-berry olallieberry Oregon evergreen berry phenomenalberry rangeberry ravenberry rossberry, Shawnee blackberry youngberry, and varieties and/or hybrids of these)

Raspberry (black and red *Rubus occidentalis Rubus strigosus Rubus idaeus)*

Pests Controlled	Rate Fluid ounces per acre
Aphids Leafhoppers Whiteflies	8 0-16 0
Rednecked cane borer	12 0-16 0
Pests Suppressed	
Thrips (foliage feeding thrips only)	8 0-16 0

Restrictions

Pre-Harvest Interval (PHI) 7 days

• Maximum Willowood Imidacloprid 4SC allowed per season 16 0 fluid ounces/Acre (0 5 lb AI per acre)

Do not apply pre-bloom or during bloom or when bees are actively foraging

Soil Application Apply specified dosage in one of the following methods

1 Chemigation into root-zone through low-pressure drip trickle micro-sprinkler or equivalent equipment

2 Basal soil drench in a minimum of 500 gallons solution per acre

CANEBERRY – FOLIAR

Crops of Crop Subgroup 13A including

Blackberry *(Rubus eubatus* including bingleberry black satin berry boysenberry Cherokee blackberry Chesterberry Cheyenne blackberry coryberry darrowberry dewberry Dirksen thornless berry Himalayaberry hullberry Lavacaberry Loganberry lowberry Lucretiaberry, mammoth blackberry marionberry nectar-berry olallieberry Oregon evergreen berry phenomenalberry rangeberry ravenberry rossberry Shawnee blackberry youngberry and varieties and/or hybrids of these)

Raspberry (black and red *Rubus occidentalis Rubus strigosus Rubus idaeus)*

Pests Controlled	**Rate Fluid ounces per acre**
Aphids Leafhoppers Thrips (foliage feeding thrips only)	3 2
Restrictions • Pre-Harvest Interval (PHI) 3 days Minimum interval between applications 7 days Maximum Willowood Imidacloprid 4SC allowed per season 9 6 fluid ounces/Acre (0 3 lb AI per acre) Do not apply pre-bloom or during bloom or when bees are actively foraging	

CITRUS (Containerized) - SOIL

Crops of Crop Group 10 Including Calamondin Citrus citron Citrus hybrids (includes chironja tangelo and tangor) Grapefruit Kumquat Lemon Lime Mandarin (tangerine) Pummelo Orange (sweet and sour), Satsuma mandarin Tangelo and other cultivars and/or hybrids of these

Pests Controlled	**Rate ml/ft^3 container media**
Aphid Asian citrus psyllid Blackfly Citrus leafminer Leafhoppers/Sharpshooters Mealybugs Scales Whiteflies	0 38 – 0 58
Citrus root weevil (larval complex)	0 62-1 2
Pests Suppressed	
Citrus thrips (foliage feeding thrips only)	1 25
Application Determine volume of container and calculate dosage necessary to treat container Apply calculated dosage of Willowood Imidacloprid 4SC per container as a soil drench or through low-pressure drip or trickle irrigation water Use sufficient carrier volume to ensure thorough uniform distribution throughout the media without loss of gravitational water from the container For optimal results treat at planting prior to insect infestation Retreat if necessary For control of larvae of the citrus root weevil complex application should be made prior to neonate larvae entering potting media Utilize higher dosage within the listed rate range for heavy infestations	

CITRUS (Field) - SOIL

Crops of Crop Group 10 Including Calamondin, Citrus citron Citrus hybrids (includes chironja tangelo, and tangor) Grapefruit Kumquat Lemon Lime Mandarin (tangerine) Pummelo, Orange (sweet and sour) Satsuma mandarin Tangelo and other cultivars and/or hybrids of these

Pests Controlled	Rate Fluid ounces per acre
Aphids Asian citrus psyllid Blackfly Citrus leafminer Leafhoppers/Sharpshooters Mealybugs Scales Termites (FL only) Whiteflies	8 0-16 0
Pests/Diseases Suppressed	
Citrus nematode Symptoms of Citrus tristeza virus (CTV) through vector control Citrus yellows Thrips (foliage feeding thrips only)	16 0

Restrictions

Pre-Harvest Interval (PHI) 0 day

Maximum Willowood Imidacloprid 4SC allowed per season when making soil applications 16 0 fluid ounces/Acre (0 5 lb AI per Acre)

Applications Apply specified dosage in one of the following methods

1. Chemigation into root-zone through low-pressure drip trickle micro-sprinkler or equivalent equipment For optimum results apply to newly planted trees or those previously trained to drip trickle or micro-sprinkler irrigation Soil should be lightly pre-wetted to break soil surface tension prior to applications of Willowood Imidacloprid 4SC Chemigation application can be made separate to normal irrigation but followed by 10 to 20 minutes of additional watering to move Willowood Imidacloprid 4SC into root-zone Allow 24 hours before initiating subsequent irrigations
2. Soil surface band spray on both sides of the tree Overlap bands at the tree base to create a continuous band within the drip-line area of the tree to be followed immediately with light sprinkler irrigation sufficient to move the product into the upper portion of the root-zone This method is suitable for very coarse soils with 0 75% organic matter or less
3. Drench to base of tree not exceeding one-quart total solution per tree immediately around trunk of tree and extending outward covering the entire fibrous root system of the tree For use on trees up to 8 feet tall
4. For control of existing termite infestations apply specified dosage in 1 to 4 quarts of total solution volume depending on size of tree, as a drench application to the basal portion of the tree trunk and surrounding soil in the immediate vicinity of the tree trunk
5. For suppression of citrus nematode apply specified dosage through low-pressure chemigation or soil surface band spray only ensuring complete coverage of the root system and utilizing application directions stated above for the respective application method Repeated and regular use of Willowood Imidacloprid 4SC over several consecutive growing seasons provides the greatest degree of nematode suppression and yields the greatest plant response

CITRUS (Field) – FOLIAR

Crops of Crop Group 10 Including Calamondin Citrus citron, Citrus hybrids (includes chironja tangelo and tangor) Grapefruit Kumquat Lemon Lime Mandarin (tangerine) Pummelo Orange (sweet and sour) Satsuma mandarin Tangelo and other cultivars and/or hybrids of these

Pests Controlled	Rate Fluid ounces per acre
Aphids Asian citrus psyllid Blackfly Leafhoppers/ Sharpshooters Leafminers Mealybugs Scales Whiteflies	4 0 - 8 0 (depending on tree size target pest and infestation pressure)
Pests Suppressed	
Thrips (foliage feeding thrips only)	4 0-8 0

Restrictions

Pre-Harvest Interval (PHI) 0 day

Minimum interval between applications 10 days

Maximum Willowood Imidacloprid 4SC allowed per season when making foliar applications 16 fluid ounces per acre (0 5 lb AI per acre)

Do not apply during bloom or within 10 days prior to bloom or when bees are actively foraging

Applications Scales - time applications to the crawler stage Treat each generation

Apply specified rate per acre as a broadcast or directed foliar spray to infested area as pest populations begin to build Thorough uniform coverage is necessary to achieve optimum control A spray adjuvant may be used to improve coverage Willowood Imidacloprid 4SC may not knockdown established and heavy insect populations Two applications may be required to achieve control Scout fields and retreat if needed Willowood Imidacloprid 4SC may be tank mixed with other insecticides for knockdown of pests or from improved control of other pests Aerial application of Willowood Imidacloprid 4SC may result in slower activity and reduced control relative to results from ground application For tree and vine crops application rates are based on full-size mature trees or vines

COFFEE[1]- SOIL

Pests Controlled	Rate Fluid ounces per acre
Aphids Leafhoppers Leafminers	8 0-16 0
Pests Suppressed	
Scales	8 0-16 0

Restrictions

• Pre-Harvest Interval (PHI) 7 days

Maximum Willowood Imidacloprid 4SC allowed per season when making soil applications 16 0 fluid ounces per Acre (0 5 lb AI per acre)

Do not apply pre-bloom or during bloom or when bees are actively foraging

Applications Apply specified dosage in one of the following methods

1 Chemigation into root-zone through low-pressure drip, trickle microsprinkler or equivalent equipment
2 Subsurface side-dress shanked into the root-zone on both side of the plants followed by irrigation
3 Basal soil drench in sufficient water to insure incorporation into the root-zone followed by irrigation

[1] Use not permitted in CA unless otherwise directed by state specific 24(c) Special Local Needs labeling

COFFEE[1] - FOLIAR

Pests Controlled	Rate Fluid ounces per acre
Aphids Leafhoppers Whiteflies	3 2
Pests Suppressed	
Scales	3 2

Restrictions
• Pre-Harvest Interval (PHI) 7 days
Minimum interval between applications 7 days
• Maximum Willowood Imidacloprid 4SC allowed per crop season when making foliar applications 16 fluid ounces per Acre (0 5 lb AI/Acre)
Do not apply pre-bloom or during bloom or when bees are actively foraging
Applications Apply specified dosage as a broadcast or directed spray to infested area insuring thorough coverage Willowood Imidacloprid 4SC may be applied through properly calibrated ground or aerial application equipment Aerial application of Willowood Imidacloprid 4SC may result in slower activity and reduced control relative to results from ground application

[1] Use not permitted in CA unless otherwise directed by state specific 24(c) Special Local Needs labeling

CRANBERRY- SOIL

Pests Controlled	Rate Fluid ounces per acre
Rootgrubs (Scarabaeidae) Rootworms (Chrysolmelidae)	8 0-16 0

Restrictions
Pre-Harvest Interval (PHI) 30 days
• Maximum Willowood Imidacloprid 4SC allowed per season when making soil applications 16 0 fluid ounces/Acre (0 5 lb AI/Acre)
• Do not apply pre-bloom or during bloom or when bees are actively foraging
Applications Apply Willowood Imidacloprid 4SC to moist soil Apply specified dosage in one of the following methods
1 As a soil spray (ground application) directed to the root and crown area using a minimum of 20 gal of water per acre
2 As a chemigation application with 600 to 1000 gal water
Immediately upon application Willowood Imidacloprid 4SC must be incorporated into root-zone by 0 1 - 0 3 inches water/Acre either with the chemigation application or through irrigation/rainfall if not applied through chemigation Inadequate incorporation within 24 hours of application may result in reduced control
Rootgrubs and Rootworms Best control may be achieved when application is made post-bloom immediately after bees are removed Applications should target early instar larvae
Willowood Imidacloprid 4SC has not been tested for crop response in tank mixes with other registered fungicides or insecticides If tank mixing is desired premix a sample of the Willowood Imidacloprid 4SC and the desired fungicide or insecticide partner at labeled rates and apply to a small area Evaluate crop response within 48 hours and for at least two weeks prior to utilizing the tank mix on larger acreage If crop injury results from the premix test do not apply the tank mix to larger acreage

GRAPE- SOIL

Including American bunch grape Muscadine grape and Vinifera grape

Pests Controlled	Rate Fluid ounces per acre
European fruit lecanium Leafhoppers/Sharpshooters Mealybugs *Phylloxera**	8 0-16 0
Pest/Disease Suppressed	
Grapeleaf skeletonizer Nematodes Pierce's disease	12 0-16 0

Restrictions

Pre-Harvest Interval (PHI) 30 days

Maximum Willowood Imidacloprid 4SC allowed per season when making soil applications 16 0 fluid ounces/Acre (0 5 lb AI/Acre)

Applications Apply specified dosage in one of the following methods

1. Chemigation into root-zone through low-pressure drip trickle micro-sprinkler or equivalent equipment
2. Subsurface side-dress shanked into the root-zone on both sides of the plants followed by irrigation
3. Hill drench in sufficient water to insure incorporation into the root-zone followed by irrigation
4. For suppression of nematodes apply 7 fluid ounces in a single application or two 3 5 fluid ounce applications on a 30- to 45 day interval Treat only by 1) chemigation into root-zone through above ground low-pressure drip trickle micro-sprinkler or equivalent equipment or 2) French plow technique followed immediately by sufficient irrigation to move the product into the entire root-zone of the plant Repeated and regular use of Willowood Imidacloprid 4SC over several consecutive growing seasons provides the greatest degree of nematode suppression and yields the greatest plant response

For optimum results make application(s) between bud-break and the pea-berry stage Use a total of 16 fluid ounces/Acre under any of the following conditions

- Where vigorous vine growth is expected
- In warmer growing areas

Where mealybug and European fruit lecanium populations are expected to be heavy

Where vine populations exceed 600 per acre or

For suppression of nematodes

* Repeated and regular use of Willowood Imidacloprid 4SC over several consecutive growing seasons controls existing *Phylloxera* infestations over time or prevents *Phylloxera* from becoming established

GRAPE- FOLIAR

Including American bunch grape, Muscadine grape and Vinifera grape

Pests Controlled	Rate Fluid ounces per acre
Leafhoppers/Sharpshooters Mealybugs	1 2-1 6
Grapeleaf skeletonizer	1 5-1 6

Restrictions

Pre-Harvest Interval (PHI) 0 days

Minimum interval between applications 14 days

- Maximum Willowood Imidacloprid 4SC allowed per season when making foliar applications 3 2 fluid ounces/Acre (0 1 lb AI/Acre)

Willowood Imidacloprid 4SC may be applied by ground application only

Applications Apply specified rate per acre as a broadcast or directed foliar spray to infested area as pest populations begin to build Thorough uniform coverage is necessary to achieve optimum control A spray adjuvant may be used to improve coverage Willowood Imidacloprid 4SC may not knockdown established and heavy insect populations Two applications may be required to achieve control Scout fields and retreat if needed Willowood Imidacloprid 4SC may be tank mixed with other insecticides for knockdown of pests or from improved control of other pests For tree and vine crops application rates are based on full-size mature trees or vines

HOP[1]- SOIL

Pests Controlled	Rate Fluid ounces per acre
Aphids	3 2 - 9 6

Restrictions
• Pre-Harvest Interval (PHI) 60 days
Maximum Willowood Imidacloprid 4SC allowed per season when making soil applications 9 6 fluid ounces/Acre (0 3 lb AI/Acre)

Applications Apply specified dosage in one of the following methods
1 Chemigation into root-zone through low-pressure drip trickle micro-sprinkler or equivalent equipment
2 Subsurface side-dress shanked into the root-zone on both sides of the plants followed by irrigation
3 Hill drench in sufficient water to insure incorporation into the root-zone followed by irrigation
Use the higher dosage within the specified rate range where extended residual control is desired or for treating larger vines or vines with dense foliage volume
[1] Use not permitted in CA unless otherwise directed by state specific 24(c) Special Local Needs labeling

HOP- FOLIAR

Pests Controlled	Rate Fluid ounces per acre
Aphids	3 2

Restrictions
Pre-Harvest Interval (PHI) 28 days
Minimum interval between applications 21 days
Maximum Willowood Imidacloprid 4SC allowed per season when making foliar applications 9 6 fluid ounces/Acre (0 3 lb AI/Acre)
Applications Apply specified rate per acre as a broadcast or directed foliar spray to infested area as pest populations begin to build Thorough uniform coverage is necessary to achieve optimum control A spray adjuvant may be used to improve coverage Willowood Imidacloprid 4SC may not knockdown established and heavy insect populations Two applications may be required to achieve control Scout fields and retreat if needed Willowood Imidacloprid 4SC may be tank mixed with other insecticides for knockdown of pests or from improved control of other pests Aerial application of Willowood Imidacloprid 4SC may result in slower activity and reduced control relative to results from ground application For tree and vine crops application rates are based on full-size mature trees or vines

POME FRUIT- SOIL
Crops of Crop Group 11 Including Apple Crabapple Loquat Mayhaw Pear (including Oriental pear) Quince

Pests Controlled	Rate Fluid ounces per acre
Aphids (including woolly apple aphid) Leafhoppers	8 0-12 0

Restrictions
Pre-Harvest Interval (PHI) 21 days
Maximum Willowood Imidacloprid 4SC allowed per season when making soil applications 12 0 fluid ounces/Acre (0 38 lb AI/Acre)
• Do not apply pre-bloom or during bloom or when bees are actively foraging
Applications Apply specified dosage in the following method
Chemigation into the root-zone through low-pressure drip trickle micro-sprinkler or equivalent equipment

POME FRUIT- FOLIAR

Crops of Crop Group 11 Including Apple Crabapple Loquat May haw Pear (including Oriental pear) Quince

Pests Controlled	Rate Fluid ounces per acre
Leafhoppers	1 6-3 2
Aphids (except Woolly apple aphid) Apple maggot Leafminers San Jose scale	3 2
FOR PEAR ONLY Mealybugs Pear psylla	8 0

Restrictions

Pre-Harvest Interval (PHI) 7 days

Minimum interval between applications 10 days

Maximum Willowood Imidacloprid 4SC allowed per season when making foliar applications 16 fluid ounces per acre (0 5 lb AI/Acre)

Do not apply pre-bloom or during bloom or when bees are actively foraging

Applications Combine applications targeting apple maggot with manufacturer's rate of a sticker such as Nu-Film 17

Apply specified rate per acre as a broadcast or directed foliar spray to infested area as pest populations begin to build Thorough uniform coverage is necessary to achieve optimum control A spray adjuvant may be used to improve coverage Willowood Imidacloprid 4SC may not knockdown established and heavy insect populations Two applications may be required to achieve control Scout fields and retreat if needed Willowood Imidacloprid 4SC may be tank mixed with other insecticides for knockdown of pests or from improved control of other pests Aerial application of Willowood Imidacloprid 4SC may result in slower activity and reduced control relative to results from ground application For tree and vine crops application rates are based on full-size mature trees or vines

POMEGRANATE[1] SOIL

Pests Controlled	Rate Fluid ounces per acre
Aphids Leafhoppers/Sharpshooters Whiteflies	8 0-16 0

Restrictions

Pre-Harvest Interval (PHI) 0 day

Maximum Willowood Imidacloprid 4SC allowed per season when making soil applications 16 0 fluid ounces/Acre (0 5 lb AI per acre)

Do not apply pre-bloom or during bloom or when bees are actively foraging

Applications Apply specified dosage in the following method

Chemigation into the root-zone through low-pressure drip trickle micro-sprinkler or equivalent equipment

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POMEGRANATE[1] - FOLIAR

Pests Controlled	Rate Fluid ounces per acre
Aphids Leafhoppers/Sharpshooters Whiteflies	3 2
Pests Suppressed	
Scales	3 2

Restrictions
Pre-Harvest Interval (PHI) 7 days
Minimum interval between applications 7 days
Maximum Willowood Imidacloprid 4SC allowed per season when making foliar applications 9 6 fluid ounces per acre (0 5 lb AI per acre)
Do not apply pre-bloom or during bloom or when bees are actively foraging

Applications Apply specified rate per acre as a broadcast or directed foliar spray to infested area as pest populations begin to build Thorough uniform coverage is necessary to achieve optimum control A spray adjuvant may be used to improve coverage Willowood Imidacloprid 4SC may not knockdown established and heavy insect populations Two applications may be required to achieve control Scout fields and retreat if needed Willowood Imidacloprid 4SC may be tank mixed with other insecticides for knockdown of pests or from improved control of other pests Aerial application of Willowood Imidacloprid 4SC may result in slower activity and reduced control relative to results from ground application For tree and vine crops application rates are based on full-size mature trees or vines

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STONE FRUIT- SOIL

Crops of Crop Group 12 Including Apricot Cherry (including sweet and tart) Nectarine Peach Plum (including Chickasaw Damson and Japanese) Plumcot Prune (fresh and dried)

In field, Soil Application

Pests Controlled	Rate Fluid ounces per acre
Aphids (including Woolly apple aphid) Leafhoppers	8 0 12 0

Restrictions
Pre-Harvest Interval (PHI) 21 days
Maximum Willowood Imidacloprid 4SC allowed per season when making soil applications 12 0 fluid ounces/Acre (0 38 lb AI/Acre)
Do not apply pre-bloom or during bloom or when bees are actively foraging
Applications Apply specified dosage in the following method
Chemigation into root-zone through low-pressure drip trickle micro-sprinkler or equivalent equipment

Pre-plant, Root Dip Application

Pests Controlled	Rate Fluid ounces per 10 gallons root-dip solution
Black peach aphid (infesting roots)	1 0

Mix Willowood Imidacloprid 4SC at 1 0 fluid ounce per 10 gallons of water Thoroughly wet bare-root transplant to slightly above the graft union by soaking roots in the Willowood Imidacloprid 4SC solution for up to 5 minutes Allow solution to dry on roots and transplant trees as soon as possible following treatment

STONE FRUIT- FOLIAR

Crops of Crop Group 12 Including Apricot Cherry (including sweet and tart) Nectarine Peach Plum (including Chickasaw Damson and Japanese) Plum-cot Prune (fresh and dried)

Pests Controlled	**Rate Fluid ounces per acre**
Aphids Green June beetle Japanese beetle Leafhoppers/Sharpshooters Plant bugs Rose chafer San Jose scale	1 6-3 2
Cherry fruit fly	2 4-3 2
Pests Suppressed	
Plum curculio Stink bugs	3 2

Restrictions for Apricot, Nectarine, Peach

Pre-Harvest Interval (PHI) 0 day

Minimum interval between applications 7 days

Maximum Willowood Imidacloprid 4SC allowed per season when making foliar applications 9 6 fluid ounces/Acre (0 3 lb AI/Acre)

- Minimum application volume (water) 50 GPA - ground application 25 GPA aerial application
- Do not apply pre-bloom or during bloom or when bees are actively foraging

Restrictions for Cherries, Plums, Plumcot, Prune

- Pre-Harvest Interval (PHI) 7 days

Minimum interval between applications 10 days

- Maximum Willowood Imidacloprid 4SC allowed per season when making foliar applications 16 0 fluid ounces/Acre (0 5 lb AI/Acre)

Minimum application volume (water) 50 GPA - ground application 25 GPA-aerial application

Do not apply pre-bloom or during bloom or when bees are actively foraging

Applications Apply specified rate per acre as a broadcast or directed foliar spray to infested area as pest populations begin to build Thorough uniform coverage is necessary to achieve optimum control A spray adjuvant may be used to improve coverage Willowood Imidacloprid 4SC may not knockdown established and heavy insect populations Two applications may be required to achieve control Scout fields and retreat if needed Willowood Imidacloprid 4SC may be tank mixed with other insecticides for knockdown of pests or from improved control of other pests Aerial application of Willowood Imidacloprid 4SC may result in slower activity and reduced control relative to results from ground application For tree and vine crops application rates are based on full-size mature trees or vines

TREE NUTS[1]- SOIL

Crops of Crop Group 14 except Almond including Beechnut Brazil nut Butternut Cashew Chestnut Chinquapin Filbert Hickory nut Macadamia nut Pecan Pistachio Walnut (black and English)

Pests Controlled	**Rate Fluid ounces per acre**
Aphids Leafhoppers/Sharpshooters Mealybugs Spittlebugs Termites Whiteflies	8 0-16 0
Pests/Diseases Suppressed	
Pecan scab (from reduction in honeydew deposition)	8 0-16 0
Thrips (foliage-feeding thrips only)	16 0

Restrictions

• **Pre-Harvest Interval (PHI) 7 days**

Maximum Willowood Imidacloprid 4SC allowed per season when making soil applications 16 0 fluid ounces/Acre (0 5 lb AI/Acre)

Do not apply pre-bloom or during bloom or when bees are actively foraging

Applications Apply specified dosage prior to or at onset of pest infestation in one of the following methods

1 Chemigation into root-zone through low-pressure drip trickle micro-sprinkler or equivalent irrigation equipment Pre-wet soil prior to applications of Willowood Imidacloprid 4SC and allow soil to dry following application and prior to subsequent irrigation
2 Emitter or spot application in a minimum of 4 fluid ounces of mixture per emitter site
3 Shank or subsurface side-dress injected to a depth just above or just within the root zone and between the trunk and drip line of the tree canopy Apply product in a minimum of 10 gallons per acre using multiple shanks on both sides of trees Ensure product placement is below sod or orchard floor debris Irrigate entire treated area within 48 hours to promote uptake by root system

For control of termites apply specified dosage to slightly moist soil as a high-volume drench to the basal portion of the tree trunk and surrounding soil in the immediate vicinity of the tree trunk Utilize sufficient carrier volume to penetrate the soil to a depth of 18 - 24 inches to obtain optimum control Allow soil to dry following treatment and prior to applying any irrigation

Remarks Use the higher rates when applied by shank or subsurface side-dress used on larger trees soils with high clay content for high plant populations and/or where extended control is desired Under some conditions control may not occur for 14 or more days or until two (2) irrigations have been made Applications made later in the season may result in reduced efficacy

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TREE NUTS[1]- FOLIAR

Crops of Crop Group 14 except Almond including Beechnut Brazil nut Butternut Cashew Chestnut Chinquapin Filbert Hickory nut Macadamia nut Pecan Pistachio Walnut (black and English)

Pests Controlled	Rate Fluid ounces per acre
Aphids (except black pecan aphid) Leafhoppers/Sharpshooters Phylloxera spp (leaf infestations) Spittlebugs Whiteflies	1 4-2 8
Black pecan aphid Mealybugs San Jose scale	3 2

Restrictions

Pre-Harvest Interval (PHI) 7 days

Minimum interval between applications 6 days

Maximum Willowood Imidacloprid 4SC allowed per crop season when making foliar applications 11 5 fluid ounces/Acre (0 36 lb AI/Acre)

Minimum application volume (water) 50 GPA - ground application 25 GPA -aerial application

Do not apply pre-bloom or during bloom or when bees are actively foraging

Applications Applications for control of San Jose scale should be timed according to crawler stage treating each successive generation Two applications on a 10- to 14-day interval may be required to achieve control Apply specified rate per acre as a broadcast or directed foliar spray to infested area as pest populations begin to build Thorough uniform coverage is necessary to achieve optimum control A spray adjuvant may be used to improve coverage Willowood Imidacloprid 4SC may not knock down established and heavy insect populations Two applications may be required to achieve control Scout fields and retreat if needed Willowood Imidacloprid 4SC may be tank mixed with other insecticides for knockdown of pests or from improved control of other pests Aerial application of Willowood Imidacloprid 4SC may result in slower activity and reduced control relative to results from ground application For tree and vine crops application rates are based on full-size mature trees or vines

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TROPICAL FRUIT - SOIL

Including Acerola Atemoya[1] Avocado Birida[1] Black sapote Canistel Cherimoya[1] Custard apple[1] Feijoa Jaboticaba Guava Llama[1] Longan Lychee Mamey sapote Mango Papaya Passionfruit Persimmon Pulasan Rambutan Sapodilla Soursop[1] Spanish lime Star apple Starfruit Sugar apple[1] Wax jambu

Pests Controlled	Rate Fluid ounces per acre
Aphids Avocado lacebug Leafhoppers Whiteflies	12 0-16 0
Pests Suppressed	
Scales Thrips (foliage feeding thrips only)	16 0

Restrictions

Pre-Harvest Interval (PHI) 6 days

• Maximum Willowood Imidacloprid 4SC allowed per season when making soil applications 16 0 fluid ounces/Acre (0 5 lb AI/A)

• Do not apply pre-bloom or during bloom or when bees are actively foraging

Applications Apply specified dosage in the following method

Chemigation through low-pressure drip trickle micro-sprinkler or equivalent equipment

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TROPICAL FRUIT - FOLIAR

Including Acerola Atemoya[1] Avocado Birida[1] Black sapote, Canistel Cherimoya[1] Custard apple[1] Feijoa Jaboticaba Guava Llama[1] Longan Lychee Mamey sapote Mango Papaya Passionfruit Persimmon Pulasan Rambutan Sapodilla Soursop[1] Spanish lime Star apple Starfruit Sugar apple[1] Wax jambu

Pests Controlled	Rate Fluid ounces per acre
Aphids Leafhoppers/Sharpshooters Mealybugs Thrips (foliage feeding thrips only) Whiteflies	3 2
Pests Suppressed	
Scales	3 2

Restrictions

Pre-Harvest Interval (PHI) 7 days

Minimum interval between applications 10 days

Maximum Willowood Imidacloprid 4SC allowed per crop season when making foliar applications 16 0 fluid ounces per acre (0 5 lb AI/A)

Do not apply pre-bloom or during bloom or when bees are actively foraging

Applications Apply specified rate per acre as a broadcast or directed foliar spray to infested area as pest populations begin to build Thorough uniform coverage is necessary to achieve optimum control A spray adjuvant may be used to improve coverage Willowood Imidacloprid 4SC may not knockdown established and heavy insect populations Two applications may be required to achieve control Scout fields and retreat if needed Willowood Imidacloprid 4SC may be tank mixed with other insecticides for knockdown of pests or from improved control of other pests Aerial application of Willowood Imidacloprid 4SC may result in slower activity and reduced control relative to results from ground application For tree and vine crops application rates are based on full-size mature trees or vines

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OTHER CROPS

CHRISTMAS TREE[1] SOIL

Pests Controlled	Rate Fluid ounces per acre
White grub complex (damage from grubs of Asiatic garden beetle European and Masked chafer Japanese beetle and Oriental beetle)	8 0-16 0

Restrictions

Maximum Willowood Imidacloprid 4SC allowed per season when making soil applications 16 0 fluid ounces/Acre (0 5 lb AI/Acre)

Applications Soil incorporation and movement of Willowood Imidacloprid 4SC to the root-zone is required for activity Willowood Imidacloprid 4SC can be incorporated most readily when applied to moist soil Apply specified dosage in one of the following methods

1. Chemigation into root-zone through low-pressure drip trickle micro-sprinkler or equivalent equipment
2. 18-inch band on each side of the row (small trees) to full broadcast application (large trees) followed by rainfall or 0 25 -1 inch of irrigation within 12 hours after application

For optimal grub control apply Willowood Imidacloprid 4SC during adult flight activity or up to mid-July when 1st instar larvae are present

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CHRISTMAS TREE- FOLIAR

Pests Controlled	Rate Fluid ounces per acre
Aphids Adelgids Sawflies	1 6-3 2

Restrictions
Minimum interval between applications 7 days
Maximum Willowood Imidacloprid 4SC allowed per crop season when making foliar applications 16 0 fluid ounces/Acre (0 5 lb AI/Acre)
Applications Gall-forming adelgids-time applications to coincide with full bud-swell of earliest bud-breaking trees Once galls form spraying will be ineffective
Apply specified rate per acre as a broadcast or directed foliar spray to infested area as pest populations begin to build Thorough uniform coverage is necessary to achieve optimum control A spray adjuvant may be used to improve coverage Willowood Imidacloprid 4SC may not knockdown established and heavy insect populations Two applications may be required to achieve control Scout fields and retreat if needed Willowood Imidacloprid 4SC may be tank mixed with other insecticides for knockdown of pests or for improved control of other pests

POPLAR/COTTONWOOD[1] - SOIL
(includes members of the genus *Populus* grown for pulp or timber)

Field Application Instructions See details below for Cuttings/Whips Application Instructions

Pests Controlled	Rate Fluid ounces per acre
Aphids, Cottonwood leaf beetle	8 0-16 0
Pests Suppressed	
Phylloxerina populana	8 0-16 0

Restrictions
Maximum Willowood Imidacloprid 4SC allowed at-plant per crop season 16 0 fluid ounces/Acre (0 5 lb AI/Acre)
Do not apply pre-bloom or during bloom or when bees are actively foraging
Applications Apply specified dosage in the following method
1 Chemigation through low-pressure drip irrigation
2 For narrow-row cutting orchards/nurseries used for plant propagation shank into root-zone followed by adequate irrigation to promote uptake (Adequate irrigation depends on soil moisture level at application Under dry conditions use 0 25 inches/Acre)
For Cottonwood leaf beetle protection against damage will occur when application is made early-season when the beetles first begin feeding Larger trees may require earlier treatment as a result of slower uptake
For *Phylloxerina,* apply early in the year from break of dormancy through May

Cutting/Whip Application Instructions See details above for Field Application Instructions	
Pests Controlled	**Cutting/Whip Soaking Solution Fluid ounces Willowood Imidacloprid 4SC Needed per 100 gallons**
Cottonwood leaf beetle	6 7-13 3 (unhydrated cuttings/whips) 13 3-20 0 (partially hydrated cuttings/whips)
Pests Suppressed	
Aphids *Phylloxerina popularia*	6 7 -13 3 (unhydrated cuttings/whips) 13 3-20 0 (partially hydrated cuttings/whips)

Restrictions

Maximum Willowood Imidacloprid 4SC allowed at-plant per crop season 16 0 fluid ounces/Acre (0 5 lb AI/Acre)

Applications Moisture content of cuttings/whips prior to application the solution concentration and the length of soaking interval interact to affect the amount of product absorbed into plant material For a constant soaking interval of 24 hours drier cuttings/whips absorb a higher quantity of solution and require a lower concentration Conversely more hydrated cuttings/ whips absorb less solution and require a higher concentration Soaking of cuttings/whips should occur in a covered container in absence of UV light Not all *Populus* spp clones/varieties/hybrids have been tested for crop safety Without specific knowledge about a particular *Populus* spp clone/variety/hybrid Willowood USA LLC recommends that small numbers of cuttings/whips of each be treated and evaluated prior to commercial use

Apply Willowood Imidacloprid 4SC in one of the following cuttings/whips soaking methods

1 For freshly cut (unhydrated) cuttings/whips soak plant material in specified solution concentration for 24 hours prior to cold storage After removal from cold storage plant as needed
2 For previously hydrated cuttings/whips removed from cold storage allow plant material to reach room temperature and soak in specified solution concentration for 24 hours prior to planting

Proper care must be taken in disposal of any residual soaking solution Solution may be applied to existing trees or other registered crops as long as all product label precautions and restrictions are observed

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POPLAR/COTTONWOOD[1] - FOLIAR

(includes members of the genus *Populus* grown for pulp or timber)

Pests Controlled	Rate Fluid ounces per acre
Aphids Leaf beetles	1 6-3 2

Restrictions

Minimum interval between applications 10 days

Maximum Willowood Imidacloprid 4SC allowed per crop season when making foliar applications 16 fluid ounces per acre (0 5 lb AI per acre)

Do not apply pre-bloom or during bloom or when bees are actively foraging

Applications Apply specified rate per acre as a broadcast or directed foliar spray to infested area as pest populations begin to build Thorough uniform coverage is necessary to achieve optimum control A spray adjuvant may be used to improve coverage Willowood Imidacloprid 4SC may not knockdown established and heavy insect populations Two applications may be required to achieve control Scout fields and retreat if needed Willowood Imidacloprid 4SC may be tank mixed with other insecticides for knockdown of pests or for improved control of other pests

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STORAGE AND DISPOSAL

Do not contaminate water food or feed by storage or disposal

Pesticide Storage Store in a cool dry place out of direct sunlight 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, invert to prevent leakage If container is leaking or material spilled for any reason or cause carefully dam up spilled material to prevent runoff Refer to Precautionary Statements on label for hazards associated with the handling of this material Do not walk through spilled material Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides below In spill or leak incidents keep unauthorized people away

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

Nonrefillable container (equal to or less than 5 gallons) Do not reuse or refill this container Triple rinse container (or equivalent) promptly after emptying Triple rinse as follows Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip Fill the container ¼ full with water and recap Shake for 10 seconds Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal Drain for 10 seconds after the flow begins to drip Repeat this procedure two more times Offer for recycling if available 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

Nonrefillable container (greater than 5 gallons) Do not reuse or refill this container Triple rinse container (or equivalent) promptly after emptying Triple rinse as follows Empty the remaining contents into application equipment or a mix tank Fill the container ¼ full with water Replace and tighten closures Tip container on its side and roll it back and forth ensuring at least one complete revolution for 20 seconds Stand the container on its end and tip it back and forth several times Turn the container over onto its other end and tip it back and forth several times Empty the rinsate into application equipment or mix tank or store rinsate for later use or disposal Repeat this procedure two more times Offer for recycling or puncture and dispose of in a sanitary landfill or incineration or if allowed by State and local authorities by burning If burned stay out of smoke

LIMITATION OF WARRANTY AND LIABILITY

Read the entire Directions for Use Conditions of Warranties and Limitations of Liability before using this product If terms are not acceptable return the unopened product container at once

By using this product user or buyer accepts the following Conditions Disclaimer of Warranties and Limitations of Liability

CONDITIONS The directions for use of this product are believed to be adequate and must be followed carefully However it is impossible to eliminate all risks associated with the 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 Willowood USA LLC To the extent consistent with applicable law such risks shall be assumed by the user or buyer

DISCLAIMER OF WARRANTIES TO THE EXTENT CONSISTENT WITH APPLICABLE LAW WILLOWOOD USA LLC MAKES NO OTHER WARRANTIES EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL To the extent consistent with applicable law no agent of Willowood USA LLC is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein TO THE EXTENT CONSISENT WITH APPLICABLE LAW WILLOWOOD USA LLC DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT

LIMITATIONS OF LIABILITY TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT WHETHER IN CONTRACT WARRANTY TORT NEGLIGENCE STRICT LIABILITY OR OTHERWISE SHALL NOT EXCEED THE PURCHASE PRICE PAID OR AT WILLOWOOD USA LLC 'S ELECTION THE REPLACEMENT OF PRODUCT

[Sub-Label B Seed Treatment]

Willowood Imidacloprid 4SC

For use as a seed treatment to protect the seed of listed crops against listed pests

ACTIVE INGREDIENT	**% BY WT**
Imidacloprid 1-[(6-Chloro-3-pyridinyl)methyl] -N-nitro-2-imidazolidinimine	40 7%
OTHER INGREDIENTS	59 3%
TOTAL	100 0%

Contains 4 0 pounds of active ingredient per gallon

Shake well before using
STOP-Read the label before use

KEEP OUT OF REACH OF CHILDREN

CAUTION

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 15-20 minutes • Call a poison control center or doctor for treatment advice
IF INHALED • Move person to fresh air • If person is not breathing call 911 or an ambulance then give artificial respiration preferably mouth-to-mouth if possible • Call a poison control center or doctor for further treatment advice
IF IN EYES • Hold eye open and rinse slowly and gently with water for 15-20 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
Have the product container or label with you when calling a poison control center doctor or going for treatment For emergency information concerning this product, call the National Pesticides Information Center (NPIC) at 1-800-858-7378 seven days a week 6 30 am to 4 30 pm Pacific Time (NPIC Web site www npic orst edu)
NOTE TO PHYSICIAN No specific antidote is available Treat the patient symptomatically

See inside booklet for additional Precautionary Statements Directions for Use and Limitation of Warranty and Liability

Manufactured For
Willowood LLC
1600 NW GARDEN VALLEY BLVD SUITE 120
ROSEBURG OR 97471

EPA Reg No **EPA Est No**

Net Contents

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION Harmful if swallowed Harmful if absorbed through skin Harmful if inhaled Causes moderate eye irritation Avoid contact with skin eyes or clothing Avoid breathing vapor or spray mist Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals Wear long sleeved shirt long pants shoes socks and chemical resistant gloves (such as or made out of any waterproof material selection category A)

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are listed below More options can be obtained by following the instructions for Category C on an EPA chemical-resistance category selection chart

Applicators and other handlers must wear

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

User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining personal protective equipment PPE If no such instructions for washables exist use detergent and hot water Keep and wash PPE separately from other laundry Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product s concentrate Do not reuse them

ENGINEERING CONTROLS STATEMENT

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

USER SAFETY RECOMMENDATIONS

Users should

- Wash hands before eating drinking chewing gum using tobacco, or using the toilet
  Remove clothing/PPE 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

ENVIRONMENTAL HAZARDS

This product is toxic to wildlife and highly toxic to aquatic invertebrates Do not apply directly to water, 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 Cover or incorporate spilled treated seeds

This product is highly toxic to bees Ensure that planting equipment is functioning properly in accordance with manufacturer specifications to minimize seed coat abrasion during planting to reduce dust which can drift to blooming crops or weeds

Ground Water Advisory

This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water The use of this chemical in areas where soils are permeable particularly where the water table is shallow may result in ground water contamination

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling

For use in commercial seed treatment facilities Use is also permitted as an end-use seed treatment on agricultural establishments at planting or immediately before planting as specified in the Specific Crop Use Directions This product is to be used in liquid or slurry treaters only

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

Mix thoroughly before use or use entire container at one time All tank mixes should be pre tested to determine physical compatibility between formulations Follow the most restrictive precautions and limitations on the labeling of all products used in mixtures

AGRICULTURAL USE REQUIREMENTS

Use this product 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 intervals 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 seed is treated with the product and the treated seed is soil-injected or soil-incorporated 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
Coveralls
Chemical-resistant gloves made of any waterproof material such as barrier laminate butyl rubber nitrile rubber neoprene rubber polyethylene polyvinyl chloride (PVC) or Viton
Shoes plus socks

ROTATIONAL CROPS

Treated areas may be replanted with any crop specified on an imidacloprid label or any crop for which a tolerance exists for the active ingredient as soon as practical following the last application The following plant-back intervals are required for listed crops

Rotational Plant Back Intervals*				
Immediate Plant-back				30-Day Plant-back
Artichoke	Crambe	Oats	Soybean	Cereals including
Barley	Cucurbits	Okra	Strawberry	Buckwheat
Brassica (cole)	Eggplant	Pepinos	Sugarbeet	Rice
Leafy vegetable	Flax	Pepper	Sunflower	
Borage	Ground cherry	Popcorn	Tomatillo	
Bulb vegetable	Leaf petiole veg	Potato	Tomato	
Canola	Leafy veg	Rapeseed	Triticale	
Cilantro	Legume veg	Rye	Root and Tuber	
Corn Field	(succulent or dried	Safflower	Veg	
Corn Sweet	including soybean)	Sorghum	Watercress	
Cotton	Millet		Wheat	
Cranberry	Mustard seed			

*Cover crops for soil building or erosion control may be planted any time but do not graze or harvest for food or feed For all other crops not listed on an Imidacloprid label or for crops for which no tolerances for the active ingredient has been established a 12-month plant-back interval is required

Notification of the crop rotational restriction must be conveyed to the grower by appropriate seed tag labeling or bag printing on all seed units

NOTE The purchaser of this product is responsible for ensuring that all seed treated with this product are adequately dyed with a suitable color to prevent its accidental use as food for man or feed for animals Refer to 21 CFR Part 2 25 Any dye or colorant added to treated seed must be cleared for use under 40 CFR Part 180 1001 Federal regulations have established official tolerances for certain pesticide residues In order that residues on food and forage crops will not exceed established tolerances use only at specified rates

Treated seed must not be used for or mixed with food or animal feed or processed for oil Seed commercially treated with Willowood Imidacloprid 4SC must be labeled in accordance with all applicable requirements of the Federal Seed Act

Use Restrictions

- DO NOT use as a planter (hopper) box treatment
- DO NOT use treated seed for feed food or oil purposes
- Store treated seed away from feeds and foodstuffs
- DO NOT allow children pets or livestock to have access to treated seed
- The maximum application rate for imidacloprid (including seed treatments foliar applications soil applications) is 0 5 lbs per acre per year DO NOT apply more than 0 5 lbs ai imidacloprid per acre per year
- Treated seed must be planted into the soil at a depth greater than 1 inch
- Exposed treated seed may be hazardous to birds Cover or incorporate spilled treated seed Excess or leftover seed may be double sown around the headland or buried away from bodies of water in accordance with local requirements

SEED BAG LABELING REQUIREMENTS

Seed commercially treated with this product must be labeled in accordance with all applicable requirements of the Federal Seed Act The user of this product is responsible for ensuring that the seed bag meets all requirements under the Federal Seed Act

THE FEDERAL SEED ACT REQUIRES THAT BAGS CONTAINING TREATED SEEDS BE LABELED WITH THE FOLLOWING STATEMENTS

This seed has been treated with Willowood Imidacloprid 4SC (imidacloprid)
DO NOT use treated seed for feed food or oil purposes

THE US ENVIRONMENTAL PROTECTION AGENCY REQUIRES THE FOLLOWING STATEMENTS ON BAGS CONTAINING SEEDS TREATED WITH WILLOWOOD IMIDACLOPRID 4SC (imidacloprid)

- Pollinator Precautions Imidacloprid is highly toxic to bees Ensure that planting equipment is functioning properly in accordance with manufacturer specifications to minimize seed coat abrasion during planting to reduce dust which can drift to blooming crops or weeds
- Store away from feeds and foodstuffs
- Wear long sleeved shirt long pants and chemical resistant gloves when handling treated seed
- Treated seed must be planted into the soil at a depth greater than 1 inch
- Exposed treated seed may be hazardous to birds Cover or incorporate spilled treated seeds Excess or leftover seed may be double sown around the headland or buried away from bodies of water in accordance with local requirements
- Dispose of seed packaging in accordance with local requirements
- DO NOT contaminate water bodies when disposing of planting equipment washwater

- DO NOT allow children pets or livestock to have access to treated seed
- In the event of a crop failure or harvest of a crop grown from Willowood Imidacloprid 4SC treated seed the field may be replanted immediately to artichoke barley borage Brassica (cole) leafy vegetables, bulb vegetables canola cilantro corn (field or sweet) cotton cranberry crambe cucurbits eggplant flax groundcherry leafy petiole vegetables leafy vegetables legume vegetables (succulent or dried including soybean), millet, mustard seed, oats okra pepinos, pepper, popcorn, potato rapeseed rye safflower sorghum soybean strawberry sugarbeets sunflower tomatillo tomato triticale root and tuber vegetables watercress and wheat For cereals including buckwheat and rice the minimum plant back interval is 30 days from the date Willowood Imidacloprid 4SC treated seed was planted Cover crops for soil building or erosion control may be planted at any time but do not graze or harvest for food or feed For all other crops not listed on an imidacloprid label or for crops for which no imidacloprid tolerance for the active ingredient has been established a 12 month plant back interval must be observed
- The maximum application rate (including seed treatment foliar application and soil application) per acre per year for imidacloprid is 0 5 lbs
- This seed has been treated with _X_ lbs imidacloprid per lbs of seed [or_X_ mg imidacloprid per seed]
- Excess treated seed may be used for ethanol production only if (1) by products are not used for livestock feed and (2) no measurable residues of pesticides remain in the ethanol by products that are used in agronomic practice

SPECIFIC CROP USE DIRECTIONS

CARROT	
To provide early season protection of seedlings against injury by listed pests apply as a commercial seed treatment	
For Use In Commercial Seed Treatment Facilities	
Target Pest	**Fl oz product/100 lb seed**
Seed corn maggot Wireworm	8 0

CORN				
For the protection of corn plants from the corn insect pests listed below apply as a seed treatment at the specified rates				
Field Corn				
For Use In Commercial Seed Treatment Facilities				
Target Pests	**Fl oz of product/**			**Mg A I /SEED**
	100 lb seed	**1000 seeds**	**80,000 seed count**	
Corn root worm (including Northern Western Southern and Mexican) Flea beetle Chinch bug Southern green stinkbug White grub Seed corn maggot Thrips Wireworm Corn leaf aphid Imported fire ant Southern corn leaf beetle Billbug[2] Grape colaspis[2] Black cutworm[3]	16 9	0 095	7 57	1 34
Flea beetle Chinch bug Seed corn maggot Thrips Wireworm Corn leaf aphid Imported fire ant Grape colaspis[2] White grub	7 6	0 043	3 40	0 60
Seed corn maggot (seed protection only) Wireworm (seed protection only) Flea beetle (through 1 leaf stage) Imported fire ant White grub[4]	2 0	0 011	0 90	0 16

This product contains 14,200 mg imidacloprid (AI) /fluid ounce based on a standard number of 1786 seeds/lb (100 000 seeds/56 lb bag)

[1] In areas of heavy to severe corn rootworm populations protection will not be adequate Use only in areas of light to moderate corn rootworm populations Consult your State Agricultural Extension Service on levels of corn rootworm populations

[2]Reduces early season feeding damage

[3] Will reduce feeding damage caused by leaf feeding black cutworms that are 1/2 inch or less in length

[4] Reduces feeding damage during emergence and seedling stages

NOTE To maintain mg ai / seed adjust fluid ounces / 100 lb in proportion to the actual seeds / lb compared to the standard number of seeds / lb for that crop Fluid ounces per number of seeds does not need to be adjusted For example if there are 1600 corn seeds / lb and the targeted rate is 0 16 mg ai / seed at a non-adjusted rate of 2 0 fl oz / 100 lb of seed use (1600 - 1786) x 2 0 = 1 79 fl oz / 100 lb of seed

For End Use Application At Agricultural Establishments	
Apply using an HCBT or an Eight Bag Batch Treater Shake this product thoroughly before use Dilute this product with water and/or an approved Willowood fungicide mixture Adjust the final slurry rate to apply a rate of 8 to 10 fluid ounces of diluted slurry per 50 pound bag of seed Treat one half of slurry mix Allow mixing until seed is thoroughly covered Apply 0 75 ounce of dry TALC per 50 pound bag of seed following the product application and allow it to distribute evenly on the seed	
Sweet Corn	
For Use In Commercial Seed Treatment Facilities	
Target Pests	**Fl oz product/100 lb seed**
Flea beetle Early season corn leaf aphid Seed corn maggot Wireworm	8 0
Imported fire ant Early season corn leaf aphid Seed corn maggot Wireworm	4 0 – 8 0
Imported fire ant Seed corn maggot (seed protection) Wireworm (seed protection)	2 0 – 4 0
Wireworm (seed protection)	1 0 – 2 0
Adjust the final slurry rate to apply 16 to 20 fluid ounces of diluted solution per 100 lb of seed with commercial equipment	
Popcorn	
For Use In Commercial Seed Treatment Facilities	
Target Pests	Fl oz product/100 lb seed
Flea beetles	8 0

COTTON (Delinted Seed Only)		
To provide protection of seedlings against injury by listed pests apply as a seed treatment at the specified rates		
For Use In Commercial Seed Treatment Facilities		
Target Pests	**Fl oz product/100 lb seed**	**MG AI/SEED**
Thrips Aphids	16 0	0 375
For End Use Application At Agricultural Establishments		
Apply using an HCBT or an 8 Bag Batch Treater Shake this product thoroughly before use This product may be diluted with water or an approved Willowood fungicide mixture for extended disease protection Adjust the final slurry rate to apply a rate of 8 to 10 fluid ounces of diluted slurry per 50 pound bag of seed Treat one half of seed with one half of slurry mix Add the balance of the seed and apply balance of slurry Allow mixing until seed is thoroughly covered		
Target Pests	**Fl oz product/50 lb bag**	
Thrips, Aphids	8 0	
USE RESTRICTIONS Regardless of the type of application (seed treatment soil or foliar) DO NOT apply more than a total of 0 5 pound of imidacloprid per acre per year		

OIL SEED CROP GROUP	
To provide early season protection of seedlings against injury by listed pests apply as a seed treatment at rates the specified	
For Use In Commercial Seed Treatment Facilities	
Target Pests	**Fl oz product/100 lb seed**
Aphids Flea beetles Wireworms	12 8 – 32 0
In areas where flea beetles and foliar insects are in high numbers, use the higher application rate within the specified range Consult your local agricultural office for pest patterns history and forecasts to assist in determining the appropriate rate for your region	
For suppression of 2nd Generation Lygus bugs including Lygus spp Seedpod weevil larvae including *Ceutorhynchus assimilis*	19 2 – 32 0
Flax, Crambe, and Borage	
Target Pests	**Fl oz product/100 lb seed**
Wireworms Seed corn maggots Flea beetles	32 0
Safflower	
Target Pests	**MG AI/SEED**
Wireworms	0 25 – 0 50 (14 200 mg imidacloprid/fl oz product
Sunflower	
Target Pests	**MG AI/SEED**
Wireworms Seed corn maggots Flea beetles	0 25 – 0 50 (14 200 mg imidacloprid/fl oz product
For End Use Application At Agricultural Establishments	
Apply using an HCBT or a Batch Treater Shake this product thoroughly before use This product may be diluted with an approved Willowood fungicide mixture for extended disease protection Treat one half of seed with one half of slurry mix Add the balance of the seed and apply balance of slurry Allow mixing until seed is thoroughly covered	
Canola, Rapeseed, Mustard Seed	
Target Pests	**Fl oz product/50 lb bag**
Aphids Flea beetles Wireworms	6 4 – 16 0
Flax, Sunflower, Crambe, and Borage	
Target Pests	**Fl oz product/100 lb bag**
Wireworms Seed corn maggots Flea beetles	16 0
Safflower	
Target Pests	**Fl oz product/100 lb bag**
Wireworms	16 0
USE RESTRICTIONS Rape greens grown and harvested from this products treated seed must not be used for human and feed consumption Rapeseed grown and harvested from this products treated seed is only for industrial uses and cannot be used for edible oil or any other human/feed consumption Seed treated in California must be destined for planting in states other than California and is not to be planted in California	

SEED AND POD VEGETABLES (including)	
Adzuki Bean Asparagus Bean Broad Bean (Succulent or Dry) Catjang Bean Chinese Longbean Field Bean Guar Bean Jackbean Kidney Bean Lablab Bean Lima Bean (Succulent or Dry) Moth Bean (Succulent or Dry), Mung Bean Navy Bean Pinto Bean Rice Bean Runner Bean Snap Bean Sword Bean Tepary Bean Urd Bean Wax Bean Yardlong Bean Blackeyed Pea (Succulent or Dry) Chickpea Cowpea (Succulent or Dry) Crowder Pea Dwarf Pea Edible Pod Pea English Pea Field Pea Garden Pea Green Pea Pigeon Pea (Succulent or Dry) Snow Pea Southern Pea (Succulent or Dry) Sugar Snap Pea Gram Lupin Sweet Lupin White Lupin White Sweet Lupin Lentil	
To provide early season protection of seedlings against injury by listed pests apply as a seed treatment at the specified rates	
For Use In Commercial Seed Treatment Facilities	
Target Pests	**Fl oz product/100 lb bag**
Wireworm Bean Leaf Beetle, Fire ant Aphids	2 0 – 4 0
USE RESTRICTIONS Seed-and-pod vegetable seed treated in California must be destined for planting in states other than California and is not to be planted in California	

SORGHUM	
To provide early season protection of seedlings against injury by listed pests apply as a seed treatment at the specified rates	
For Use In Commercial Seed Treatment Facilities	
Target Pests	**Fl oz product/100 lb bag**
Aphids (including Corn leaf English grain Greenbug and Yellow sugar cane) Chinch bugs Fire ants Wireworms	8 0
For End Use Application At Agricultural Establishments	
Apply using an HCBT or an 8-Bag Batch Treater Shake this product thoroughly before use Dilute this product with water Adjust the final slurry rate to apply a rate of 8 to 10 fluid ounces of diluted slurry per 50-pound bag of seed Treat one-half of seed with one-half of slurry mix Add the balance of the seed and apply balance of slurry Allow mixing until seed is thoroughly covered Apply 0 75 ounce of dry TALC per 50-pound bag of seed following the product application and allow it to distribute evenly on the seed	
Target Pests	**Fl oz product/50 lb bag**
Aphids (including Corn leaf English grain Greenbug and Yellow sugar cane) Chinch bugs Fire ants Wireworms	4 0
USE RESTRICTIONS DO NOT graze or feed livestock on treated areas for 45 days after planting	

SOYBEAN

To provide early season protection against injury by listed pests and to suppress the spread of certain viruses caused by insect vectors apply as a seed treatment at the specified rates

For Use In Commercial Seed Treatment Facilities

Use higher rates within the specified range to provide increased length of protection and for heavy insect pressure This product can be used as an over-treatment

Target Pests	Fl oz of product/			Mg A I /SEED
	100 lb seed*	1000 seeds	140,000 seed count	
Seed corn maggot Soybean aphids Bean leaf beetles (overwintering)	2 0 – 4 0	0 0067 – 0 0133	0 93 – 1 87	0 095 – 0 190

This product contains 14 200 mg imidacloprid /fluid ounce
*based on a standard number of 3000 seeds / lb
NOTE To maintain mg ai / seed adjust fluid ounces / 100 lb of seed in proportion to the actual seed count / lb compared to the base number of seeds / lb for that crop, fluid ounces per number of seeds (i e 1000 80 000 140 000) does not need to be adjusted For example if there are 2800 soybean seeds / lb and the targeted rate is 0 095 mg ai / seed at a non adjusted rate per 2 0 fl oz /100 lb of seed use (2800 + 3000) x 2 0 = 1 87 fl oz /100 lb of seed
USE RESTRICTIONS
DO NOT graze or feed livestock on soybean forage or hay

SUGARBEETS

To provide early season protection of seedlings against injury by listed pests apply as a seed treatment at the specified rates

For Use In Commercial Seed Treatment Facilities

Target Pests	Use Rate
Whitefly Aphids / Leafhoppers (including vectors that may spread Curly top and Yellow mosaic virus) Root aphids Thrips Wireworms	3 0 to 6 25 fluid ounces of this product in or on a unit of pelleted sugar beet seed with a weight ratio of 2 1 pelleting mixture to raw seed (seed count 100 000 seed approximately 1 kilogram by weight) Apply in a film coat directly to raw seed (100 000 seed or approximately 1 kilogram by weight) at a rate of 3 0 fluid ounces per unit of seed If rates exceed 3 0 fluid ounces per unit seed must be pelleted

WHEAT, BARLEY, OATS, RYE, TRITICALE	
To provide early season protection of seedlings against injury by listed pests apply as a seed treatment at the specified rates	
For Use In Commercial Seed Treatment Facilities	
Target Pests	**Fl oz product/100 lb bag**
Aphids (including Bird cherry oat English gram Greenburg and Russian wheat aphid) Hessian fly	1 0 – 3 0
For Suppression of Wireworm	0 16 – 0 33
Grasshopper	1 5 – 3 0
Use the higher rate within the specified range to provide increased length of protection and to reduce potential spread of Barley yellow dwarf virus due to aphid vectors To reduce early season damage caused by grasshopper this product s treated seed may be planted as a 50 to 60 foot border around the edges of the field Consult your local university extension entomologist for details regarding grasshopper control in your area For maximum effectiveness seed should be treated uniformly	
For End Use Application At Agricultural Establishments	
Apply using a Total Slurry Treater (TST) Farmer Applied Seed Treater (FAST) Farmer Air Pressure System (FAP) or other on farm liquid or slurry seed treating equipment to deliver accurate rates of this product to achieve optimum product performance Combine this product with an approved Willowood fungicide product for seed and seedling protection against fungal pathogens Dilution with water may be necessary depending on fungicide formulation used This product may also be applied on farm as an over treatment to seed pretreated with a fungicide In this case dilution is necessary	
USE RESTRICTIONS DO NOT graze or feed livestock on treated areas for 45 days after planting	

ADDITIONAL USES
Stored Seed Protection When applied according to use directions and at labeled rates equal to or above 1 0 fluid ounce per 100 lb of seed this product will provide protection to seed against injury from the following insects Indian Meal Moth (Plodia mterpunctella) Rice Weevil (Sitophilus oryzea) Red Flour Beetle (Tribolium castaneum) and Lesser Grain Borer (Rhizopertha dominica) It is recommended that seed with existing populations of stored gram pests be fumigated prior to treating and bagging seed

STORAGE AND DISPOSAL

Do not contaminate water food or feed by storage or disposal

Pesticide Storage Store in a cool dry place, out of direct sunlight 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 invert to prevent leakage If container is leaking or material spilled for any reason or cause carefully dam up spilled material to prevent runoff Refer to Precautionary Statements on label for hazards associated with the handling of this material Do not walk through spilled material Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides below In spill or leak incidents keep unauthorized people away

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

Nonrefillable container (equal to or less than 5 gallons) Do not reuse or refill this container Triple rinse container (or equivalent) promptly after emptying Triple rinse as follows Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip Fill the container ¼ full with water and recap Shake for 10 seconds Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal Drain for 10 seconds after the flow begins to drip Repeat this procedure two more times Offer for recycling if available 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

Nonrefillable container (greater than 5 gallons) Do not reuse or refill this container Triple rinse container (or equivalent) promptly after emptying Triple rinse as follows Empty the remaining contents into application equipment or a mix tank Fill the container ¼ full with water Replace and tighten closures Tip container on its side and roll it back and forth ensuring at least one complete revolution for 20 seconds Stand the container on its end and tip it back and forth several times Turn the container over onto its other end and tip it back and forth several times Empty the rinsate into application equipment or mix tank or store rinsate for later use or disposal Repeat this procedure two more times Offer for recycling or puncture and dispose of in a sanitary landfill or incineration or if allowed by State and local authorities by burning If burned stay out of smoke

LIMITATION OF WARRANTY AND LIABILITY

Read the entire Directions for Use Conditions of Warranties and Limitations of Liability before using this product If terms are not acceptable return the unopened product container at once

By using this product user or buyer accepts the following Conditions Disclaimer of Warranties and Limitations of Liability

CONDITIONS The directions for use of this product are believed to be adequate and must be followed carefully However it is impossible to eliminate all risks associated with the 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 Willowood LLC To the extent consistent with applicable law such risks shall be assumed by the user or buyer

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