34704-1009 11/12/2013 1/24

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
CHEMICAL SAFETY AND
POLLUTION PREVENTION

November 12, 2013

Mr. Premjit Halarnkar
Loveland Products, Inc.
P.O. Box 1286
Greeley, CO 80632-1286

Subject: Amended label to add pollinator protection language
Product Name: Malice 75 WSP
EPA Reg. No. 34704-1009
EPA Decision No. 484053
Submission dated September 27, 2013; resubmission dated November 7, 2013

Dear Dr. Halarnkar:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act is acceptable. A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release the product for shipment with the new labeling. See 40 CFR 156.10(a)(6).

Under 40 CFR 152.130(d), EPA may establish dates by which all product distributed or sold by the registrant must bear revised labeling. The following paragraphs set forth the schedule for ensuring that that your product bears revised labeling within a reasonable time period:

- Any product released for shipment after 2/28/14 must bear the new label.

If these conditions are not complied with, EPA will take appropriate action against this registration. If you have any questions please contact Julie Chao at 703-308-8735 or chao.julie@epa.gov.

Regards,

Venus Eagle

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

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Loveland PRODUCTS

MALICE® 75 WSP

Systemic and foliar insect control in turfgrass (including sod farms), and on fruit and nut trees, landscape ornamentals, and interior plantscapes and for control of listed insects infesting various crops.

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

Malice® 75 WSP contains imidacloprid, the active ingredient used in Merit® and Provado®.

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 do anything by mouth to an unconscious person.
If in eyes:	• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If on skin or clothing:	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565.
NOTE TO PHYSICIAN: No specific antidote is available. Treat the patient symptomatically.

EPA REG. NO. 34704-1009

EPA EST. NO. 34704-MT-001

NET CONTENTS 4 x 1.6 OZ WSP

EXP 09/13 BEES

ACCEPTED
NOV 12 2013
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under:

EPA. Reg. No: 34704-1009

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION

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

PERSONAL PROTECTIVE EQUIPMENT (PPE):

WPS USES: Applicators and other handlers who handle this product for any use covered by the Worker Protection Standard (40 CRF Part 170) – in general, agricultural plant uses e.g., crops, sod farms, must wear:

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

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

NON-WPS USES: Applicators and other handlers who handle this product for any use NOT covered by the Worker Protection Standard (40 CFR part 170) – in general, only agricultural plant uses are covered by the WPS, must wear:

- Shirt and pants
- Gloves
- Protective eyewear
- Shoes plus socks

ENGINEERING CONTROLS STATEMENTS

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

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is highly toxic to aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops/plants or weeds if bees are foraging. This product is toxic to wildlife and highly toxic to aquatic invertebrates.

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

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PROTECTION OF POLLINATORS

APPLICATION RESTRICTIONS EXIST FOR THIS PRODUCT BECAUSE OF RISK TO BEES AND OTHER INSECT POLLINATORS. FOLLOW APPLICATION RESTRICTIONS FOUND IN THE DIRECTIONS FOR USE TO PROTECT POLLINATORS.

Look for the bee hazard icon in the Directions for Use for each application site for specific use restrictions and instructions to protect bees and other insect pollinators.

This product can kill bees and other insect pollinators.
Bees and other insect pollinators will forage on plants when they flower, shed pollen, or produce nectar.

Bees and other insect pollinators can be exposed to this pesticide from:
- Direct contact during foliar applications, or contact with residues on plant surfaces after foliar applications.
- Ingestion of residues in nectar and pollen when the pesticide is applied as a seed treatment, soil, tree injection, as well as foliar applications.

When Using This Product Take Steps To:
- Minimize exposure of this product to bees and other insect pollinators when they are foraging on pollinator attractive plants around the application site.
- Minimize drift of this product on to beehives or to off-site pollinator attractive habitat. Drift of this product onto beehives or off-site to pollinator attractive habitat can result in bee kills.

Information on protecting bees and other insect pollinators may be found at the Pesticide Environmental Stewardship website at: http://pesticidestewardship.org/PollinatorProtection/Pages/default.aspx.

Pesticide incidents (for example, bee kills) should immediately be reported to the state/tribal lead agency. For contact information for your state, go to: www.aapco.org/officials.html. Pesticide incidents should also be reported to the National Pesticide Information Center at: www.npic.orst.edu or directly to EPA at: beekill@epa.gov

DIRECTIONS FOR USE

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

See individual crops for specific pollinator protection application restrictions. If none exist under the specific crop, for foliar applications, follow these application directions for crops that are contracted to have pollinator services or for food/feed and commercially grown ornamentals that are attractive to pollinators:

FOR CROPS UNDER CONTRACTED POLLINATION SERVICES
Do not apply this product while bees are foraging. Do not apply this product until flowering is complete and all petals have fallen unless the following condition has been met:

If an application must be made when managed bees are at the treatment site, the beekeeper providing the pollination services must be notified no less than 48-hours prior to the time of the planned application so that the bees can be removed, covered or otherwise protected prior to spraying.

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FOR FOOD/FEED CROPS AND COMMERCIALLY GROWN ORNAMENTALS NOT UNDER CONTRACT FOR POLLINATION SERVICES BUT ARE ATTRACTIVE TO POLLINATORS

Do not apply this product while bees are foraging. Do not apply this product until flowering is complete and all petals have fallen unless one of the following conditions is met:

- The application is made to the target site after sunset
- The application is made to the target site when temperatures are below 55 °F
- The application is made in accordance with a government-initiated public health response
- The application is made in accordance with an active state-administered apiary registry program where beekeepers are notified no less than 48-hours prior to the time of the planned application so that the bees can be removed, covered or otherwise protected prior to spraying
- The application is made due to an imminent threat of significant crop loss, and a documented determination consistent with an IPM plan or predetermined economic threshold is met. Every effort should be made to notify beekeepers no less than 48-hours prior to the time of the planned application so that the bees can be removed, covered or otherwise protected prior to spraying.

FOR NON-AGRICULTURAL USE SITES

Do not apply Malice® 75 WSP while bees are foraging. Do not apply Malice 75 WSP to plants that are flowering. Only apply after all flower petals have fallen off.

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

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

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

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves made of any waterproof material such as, barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton
- Protective eyewear
- Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

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

Keep children and pets off treated areas until dry.

RUNOFF MANAGEMENT

Do not cultivate within 10 feet of the aquatic areas to allow growth of vegetative filter strip. When used on erodible soils, best management practices for minimizing runoff should be employed. Consult your local Natural Resources Conservation Service for recommendations 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.

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This product contains a Group 4A insecticide called imidacloprid. Insect biotypes with acquired or inherent tolerance to Group 4A products may eventually dominate the insect population if Group 4A products are used repeatedly as the predominant method of control for targeted species. This may eventually result in partial or total loss of control of those species by this product and to other Group 4A products.

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

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

Other Group 4A, neonicotinoid products used as foliar treatments include: Actara®, Assail®, Calypso®, Centric®, Intruder®, Leverage®, Provado®, and Trimax™. Other 4A Group, neonicotinoid products used as soil treatment include: Admire® and Platinum®.

Contact your local 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://irac-online.org/.

CROP USE LABEL
PRODUCT PACKAGED IN WSP

OBSERVE THE FOLLOWING PRECAUTIONS WHEN MIXING AND APPLYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES, RESERVOIRS, 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.

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 recommended. If containment pad is not used, maintain a minimum distance of 25 feet between mixing and loading areas and potential surface to groundwater conduits such as field sumps, uncased well heads, sinkholes, or field drains.

For Aerial Applications

Mount spray boom on the aircraft so as to minimize the 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.

Importance of Droplet Size

An important factor influencing drift is droplet size. Small droplets (<150 to 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 air stream as much as possible and by avoiding excessive spray boom pressure.
Release spray at the lowest possible height consistent with good pest control and flight safety. Do not apply more than 10 feet above the crop canopy.

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

Because the potential for spray drift is high during temperature inversions, do NOT make aerial or ground applications 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.

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Airblast (Air Assist) Specific 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 should 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 applications to the outside rows.

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.

RESTRICTIONS

- **DO NOT** apply this product through any type of irrigation system.
- Keep children and pets off treated areas until dry.
- **DO NOT** apply by air except for uses permitting aerial application in the "TREE, BRUSH AND VINE CROPS" section.
- **DO NOT** graze treated areas or use clippings from treated areas for feed or forage.
- **DO NOT** apply this product to soils that are waterlogged or saturated and avoid runoff or puddling of irrigation water following application.
- **DO NOT** allow leechate to run out for the first 10 days after application or reduced efficacy may result.
- Regardless of formulation or method of application, apply no more than 0.5 pounds active ingredient imidacloprid per acre per year, including seed treatment, soil, and foliar uses, unless specified within a crop-specific application section for a given crop.

APPLICATION INSTRUCTIONS

Apply as a directed or broadcast foliar spray using adequate spray volumes, properly calibrated application equipment and spray adjuvant (if necessary) to obtain thorough coverage. Thorough coverage of the foliage (without runoff) is necessary. Loss of insect control or delay in onset of activity may result if there is not adequate coverage and retention of this product on leaves and fruit. Except where otherwise specified, this product may be applied using properly calibrated ground and/or aerial application equipment using a minimum spray volume of 10.0 gallons per acre by ground application and 5.0 gallons per acre through aerial equipment.

Unless allowed under state-specific 24(c) labeling, do not use this product on crops grown for production of true seed intended for private or commercial planting. Your Cooperative Extension Service, PCAs, consultants or local Loveland Products, Inc. representatives can provide additional information on this product's uses with these crops.

Mixing Instructions

- Add a portion of the required amount of water to the spray tank and begin agitation.
- Add the specified amount of this product.
- Fill the tank with the remaining water needed, being sure to maintain sufficient agitation during both mixing and application.
- If tank mixing this product with other pesticides and/or fertilizer solutions, please refer to the Compatibility Testing Instructions below. When tank mixing this product with other pesticides, prepare the tank mixture as specified above and follow the Mixing Order below.

Mixing Order
Add this product first and allow the PVA packets to dissolve. Add any other wettable powders or wettable granules, flowables (suspension concentrates) second, and emulsifiable concentrates last. Maintain agitation as each component is added and do not add an additional component until the previous one is thoroughly mixed. A fertilizer pesticide compatibility agent may be needed if a fertilizer solution is added to the mix. To ensure uniformity of the spray mixture, be sure to maintain constant agitation during both mixing and application.

Compatibility Testing Instructions
Do not use PVA packets in a tank-mix with products that contain boron or release free chlorine. The resultant reaction of PVA and boron or free chlorine is a plastic that is not soluble in water or solvents. For further information, contact your local Loveland Products, Inc. representative.
Conduct the following test for compatibility of the intended tank mixture before adding this product to the spray or mix tank:

1. In a pint or quart jar, add proportionate amounts of each ingredient in the appropriate order.
2. Cap and shake for 5 minutes.
3. Let set for 5 minutes.
4. Observe the jar for signs indicating an incompatible mixture that should not be used such as poor mixing or the formation of precipitates that do not readily re-disperse.

Rotational Crops
As soon as practical following the last application, 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. 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.

Cover crops for soil building or erosion control may be planted at any time, but do not graze or harvest for food or feed.

Immediate Plant-back:
All crops on this label plus the following crops not on this label: barley, canola, corn (field, sweet and pop), rapeseed, sorghum, sugar beet and wheat.

30-Day Plant-back:
Cereals (including buckwheat, millet, oats, rice, rye and triticale), soybeans and safflower

10-Month Plant-back:
Onion and bulb vegetables

12-Month Plant-back:
All other crops

FIELD CROPS

Application Instructions
Apply as a broadcast or directed foliar spray to infested area as pest populations begin to build. Thorough uniform coverage using the rates below is necessary to achieve optimum control. To improve coverage, a spray adjuvant may be used. This product may not knock-down heavy or established insect infestations; scout fields and make two applications if necessary to achieve control. For knockdown of pests or for improved control of other pests, this product may be tank mixed with other insecticides as listed below.

COTTON
Restrictions
- **DO NOT** graze treated fields after any application of this product
- Pre-Harvest Interval (PHI): 14 days
- Minimum interval between applications: 7 days
- Maximum of this product allowed per year: 6.5 ounces per acre (0.31 pound active ingredient per acre)

Pests Controlled	Application Rate (Oz/A)
Banded-winged whitefly	0.7 to 1.3
Bollworm/Budworm (ovicidal effect)	
Cotton aphid	
Cotton fleahopper	
Green stink bug	
Plant bugs (excludes *Lygus hesparus*)	
Southern green stink bug	
Lygus bug (*Lygus Hesperus*)†	1.0 to 1.3
Whiteflies (other than Banded winged whitefly) †	

† Suppression only.

Tank Mix Instructions
For early season control of Thrips:
- Mix 0.7 to 1.0 ounce per acre of this product with 1.6 to 3.2 ounces per acre of Bidrin® 8.

For mid- to late-season control of Cotton leafperforator, Grasshoppers, Plant bugs, Saltmarsh catepillar and Stink bugs (including Brown stink bug):
- Mix 0.7 to 1.0 ounce of this product with 4.0 to 8.0 ounces of Bidrin® 8 per acre.

Be sure to refer to the Bidrin® 8 label for specific use instructions and to observe the most conservative use directions and restrictions from both labels.

POTATO
Restrictions
- Pre-Harvest Interval (PHI): 7 days
- Minimum interval between applications: 7 days
- Maximum of this product allowed per crop year: 4.0 ounces per acre (0.19 pound active ingredient per acre)

Pests Controlled	Application Rate (Oz/A)
Aphids	1.0
Colorado potato beetle	
Flea beetles	
Leafhoppers	
Psyllids	

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TOBACCO
Restrictions
- Pre-Harvest Interval (PHI): 14 days
- Minimum interval between applications: 7 days
- Maximum of this product allowed per crop year: 6.0 ounces per acre (0.28 pound active ingredient per acre)

Pests Controlled	Application Rate (Oz/A)
Aphids	0.5 to 1.1
Flea beetles Japanese beetle	1.1

VEGETABLE and SMALL FRUIT CROPS

Application Instructions
Apply as a broadcast or directed foliar spray to infested area as pest populations begin to build. Thorough uniform coverage using the rates below is necessary to achieve insect control. To improve coverage, a spray adjuvant may be used. This product may not knockdown heavy or established insect infestations; scout fields and make two applications if necessary to achieve control. For knockdown of pests or for improved control of other pests, this product may be tank mixed with other insecticides as recommended below.

FRUITING VEGETABLES
Crop Group 8 plus Okra including: Eggplant, Ground cherry, Okra, Pepper (including bell, chili, cooking, pimento and sweet), Tomato, Pepinos, Tomatillo
Restrictions
- NOT for use on crops grown for seed unless allowed by state-specific 24(c) labeling.
- Pre-Harvest Interval (PHI): 0 days
- Minimum interval between applications: 5 days
- Maximum of this product allowed per crop season: 5.0 ounces per acre (0.23 pound active ingredient per acre)

Pests Controlled	Application Rate (Oz/A)	Application Instructions
Aphids Leafhoppers Whiteflies	1.0	For insect control, good coverage of foliage Colorado potato beetle and fruit is necessary. Incorporate applications of this product into a full-season program that uses effective products from multiple classes of chemistry and different modes of action in a blocked or windowed approach. For additional information, please contact your Loveland Products, Inc. representative, extension specialist or crop advisor.
Pepper weevil (Pepper only)	1.6	Apply the rate of this product using ground equipment only. Time applications prior to a damaging population becoming established.

GLOBE ARTICHOKE
Restrictions
- Pre-Harvest Interval (PHI): 7 days
- Minimum interval between applications: 14 days
- Maximum of this product allowed per crop year: 10.7 ounces per acre (0.5 pound active ingredient per acre)

Pests Controlled	Application Rate (Oz/A)
Aphids Leafhoppers	1.1 to 2.7

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HEAD and STEM BRASSICA VEGETABLES
Crop Group 5 including: Broccoli, Broccoli raab (rapini), Brussels sprouts, Cabbage, Cauliflower, Cavalo broccoli, Chinese (gai lon) broccoli, Chinese (bok choy) cabbage, Chinese (napa) cabbage, Chinese mustard (gai choy) cabbage, Collards, Kale, Kohlrabi, Mizuna, Mustard greens, Mustard spinach, Rage greens, Turnip (tops or leaves)

LEAFY VEGETABLES
Crop Group 4 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 chickory), 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)

Restrictions
- NOT for use in California unless otherwise directed by state-specific 24(c) labeling.
- Pre-Harvest Interval (PHI): 7 days
- Minimum interval between applications: 5 days
- Maximum of this product allowed per crop season: 5.0 ounces per acre (0.23 pound active ingredient per acre)
- NOT for use on crops grown for seed unless allowed by state-specific 24(c) labeling.

Pests Controlled	Application Rate (Oz/ A)	Application Instructions
Aphids Flea beetles Leafhoppers Whiteflies	1.0	For applications made to watercress: Apply to fully leafed-up canopies only. 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 hr following the application.

LEGUME VEGETABLES
Crops of Crop Group 6 (except soybean, dry) including:
Edible Podded and Succulent Shelled pea and Bean and Dried shelled pea and Bean
Bean (*Lupinis* 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, catjang, Chinese longbean, cowpea, Crowder pea, moth bean, mung bean, rice bean, Southern pea, urd bean, yardlong bean)
Pea (*Pisum* spp. includes dwarf pea, edible 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

Restrictions
- NOT for use on crops grown for seed unless allowed by state-specific 24(c) labeling.
- Pre-Harvest Interval (PHI): 7 days
- Minimum interval between applications: 7 days
- Maximum of this product allowed per crop season: 2.8 ounces per acre (0.13 pound active ingredient per acre)

Pests Controlled	Application Rate (Oz/A)
Aphids Leafhoppers Whiteflies	0.9

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ROOT, TUBEROUS and CORM VEGETABLES

Crop Group 1 (except sugarbeet) including: Arracacha, Arrowroot, Artichoke (Chinese and Jerusalem), Beet (garden)†, Burdock (edible)†, Canna (edible, Queensland arrowroot), Carrot†, Cassava (bitter and sweet)†, Celeriac†, Chayote (root), Chervil (turnip-rooted)†, Chickory†, Chufa, Dasheen (taro)†, Ginger, Ginseng, Horseradish, Leren, Parsley (turnip-rooted), Parsnip†, Radish†, Oriental radish (diakon)†, Rutabaga†, Salsify (black)†, Salsify (oyster plant), Salsify (Spanish), Skirret, Sweet potato†, Tanier (cocoyam)†, Tumeric, Turnip†, Yam bean (jicama, manioc pea), Yam (true)†

† Tops or green from these crops may be utilized for food of feed.

For applications on Potato, refer to the Field Crops section.

Restrictions

- NOT for use on crops grown for seed unless allowed by state-specific 24(c) labeling.
- Pre-Harvest Interval (PHI): 7 days
- Minimum interval between applications: 5 days
- Maximum of this product allowed per crop season: Radish: 0.9 ounce per acre (0.044 pound active ingredient per acre) All other crops: 2.8 ounces per acre (0.13 pound active ingredient per acre)
- Maximum number of applications of this product per crop season: Radish: 1; All other crops: 3

Pests Controlled	Application Rate (Oz/A)
Aphids	0.9
Flea beetles	
Leafhoppers	
Whiteflies	

STRAWBERRY

Restrictions

- Pre-Harvest Interval (PHI): 7 days
- Minimum interval between applications: 5 days
- Maximum of this product allowed per crop season: 3.0 ounces per acre (0.14 pound active ingredient per acre)
- DO NOT apply during bloom or within 10 days prior to bloom or when bees are foraging.

Pests Controlled	Application Rate (Oz/A)
Aphids	1.0
Spittlebugs	
Whiteflies	

TREE, BUSH and VINE CROPS

Application Instructions

Apply as a broadcast or directed foliar spray to infested area as pest populations begin to build. Thorough uniform coverage using the rates below is necessary to achieve optimum control. To improve coverage, a spray adjuvant may be used. This product may not knock-down heavy or established insect infestations; scout fields and make two applications if necessary to achieve control. For knockdown of pests or for improved control of other pests, this product may be tank mixed with other insecticides as listed below.

Applying this product aerially 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.

BUSH BERRY

Crop Subgroup 13 including: Blueberry, Currant, Elderberry, Gooseberry, Huckleberry, Juneberry, Lingonberry, Salal

Restrictions

- Pre-Harvest Interval (PHI): 3 days
- Minimum interval between applications: 7 days
- Maximum of this product allowed per year: 10.7 ounces per acre (0.5 pound active ingredient per acre)
- Maximum number of applications of this product per year: 5
- Maximum application volume (water): 20.0 GPA – ground; 5.0 GPA – aerial
- DO NOT apply during bloom or within 10 days prior to bloom or when bees are foraging.

Pests Controlled	Application Rate (Oz/A)
Aphids	0.8 to 1.1
Leafhoppers/Sharpshooters	
Blueberry maggot	1.6 to 2.1
Japanese beetles (adults)	
Thrips	

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CITRUS

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), Tangelo, Satsuma mandarin, and other cultivars and/or hybrids of these crops

Restrictions

- Pre-Harvest Interval (PHI): 0 days
- Minimum interval between applications: 10 days
- Maximum of this product allowed per year: 10.7 ounces per acre (0.5 pound active ingredient per acre)
- DO NOT apply during bloom or within 10 days prior to bloom or when bees are foraging.

Pests Controlled	Application Rate (Oz/ A)	Application Instructions
Aphids Asian citrus psyllid Black fly Leafhoppers / Sharpshooters Leafminers Mealybugs Scales Whiteflies	2.7 to 5.3 (depending on tree size, target pest and infestation pressure)	Scales: Time applications to the crawler stage and treat each generation.
Thrips†	2.7 to 5.3	

† Suppression only.

GRAPE

Including American bunch grape, Muscadine grape and Vinifera grape

Restrictions

- Pre-Harvest Interval (PHI): 0 days
- Minimum interval between applications: 14 days
- Maximum of this product allowed per year: 2.0 ounces per acre (0.1 pound active ingredient per acre)

Pests Controlled	Application Rate (Oz/ A)	Application Instructions
Leafhoppers / Sharpshooters Mealybugs	0.8 to 1.0	
Grapeleaf skeletonizer	1.0	Ground applications that provide thorough coverage of foliage should control Grapeleaf skeletonizer. Aerial applications may provide suppression.

HOP

Restrictions

- Pre-Harvest Interval (PHI): 28 days
- Minimum interval between applications: 21 days
- Maximum of this product allowed per year: 6.4 ounces per acre (0.3 pound active ingredient per acre)

Pests Controlled	Application Rate (Oz/A)
Aphids	2.1

PECAN

Restrictions

- NOT for use in California unless otherwise directed by state-specific 24(c) labeling.
- **DO NOT** apply after shuck split.
- Minimum interval between applications: 10 days
- Maximum of this product allowed per year: 7.5 ounces per acre (0.35 pound active ingredient per acre)

Pests Controlled	Application Rate (Oz/A)
Aphids (use higher listed rate for Black pecan aphid) *Phylloxera* Spittlebugs	0.9 to 1.9

POME FRUIT
Crop Group 11 including: Apple, Crabapple, Loquat, Mayhaw, Pear (including Oriental pear), Quince
Restrictions
- Pre-Harvest Interval (PHI): 7 days
- Minimum interval between applications: 10 days
- Maximum of this product allowed per year: 10.7 ounces per acre (0.5 pound active ingredient per acre)
- DO NOT apply during bloom or within 10 days prior to bloom or when bees are foraging.

Pests Controlled	Application Rate (Oz/A)	Application Instructions
Leafhoppers	1.2 to 2.1	Apply low listed rate for low to moderate populations of White apple leafhoppers and high listed rate for high populations or for other leafhopper species. Apply this product while most Leafhoppers are in the nymphal stage.
Aphids (except Woolly apple aphid) Leafminers San Jose scale	2.1	Leafminer – To control first generation Leafminer, apply as soon as pollination is complete and bees are removed from the orchard. Greatest control will result from the earliest possible application. For second and succeeding generations of Leafminer, optimal control is obtained from applications made early in the adult flight against egg and early instar larvae. A second application may be required 10 days later if severe pressure continues or if generations are overlapping. A single application may result in suppression only. This product will not control late instar larvae. Rosy apple aphid – apply prior to leafrolling caused by Rosy apple aphid. San Jose scale – time applications to the crawler stage. Treat each generation.
PEAR ONLY: Mealybugs Pear psylla	5.3	Mealybugs – apply maximum gallonage for tree with ground equipment. Ensure good spray coverage of the trunk and scaffolding limbs or other resting sites of Mealybugs.

STONE FRUIT
Crop Group 12 including: Apricot, Cherry (including sweet and tart), Nectarine, Peach, Plum (including Chickasaw, Damson and Japanese), Plumcot, Prune (fresh and dried)
Restrictions
- DO NOT apply during bloom or within 10 days prior to bloom or when bees are foraging.

Apricot, Nectarine, Peach:
Restrictions
- Pre-Harvest Interval (PHI): 0 days
- Minimum interval between applications: 7 days
- Maximum of this product allowed per year: 6.4 ounces per acre (0.3 pound active ingredient per acre)
- Minimum application volume (water): 50 GPA – ground application; 25 GPA – aerial application

Cherries, Plums, Plumcot, Prunes:
Restrictions
- Pre-Harvest Interval (PHI): 7 days
- Minimum interval between applications: 10 days
- Maximum of this product allowed per year: 10.7 ounces per acre (0.5 pound active ingredient per acre)
- Minimum application volume (water): 50 GPA – ground application; 25 GPA – aerial application

Pests Controlled	Application Rate (Oz/A)
Aphids Green June beetle Japanese beetle Leafhoppers/Sharpshooters Plant bugs Rose chafer San Jose scale	1.1 to 2.1
Cherry fruit fly (maggot of Eastern and Western)	1.6 to 2.1
Plum curculio† Stink bugs†	2.1

† Suppression only.

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TROPICAL FRUIT
Including: Acerola, Avocado, Black sapote, Canistel, Feijoa, Jaboticaba, Guava, Longan, Lychee, Mamey sapote, Mango, Papaya, Passionfruit, Pulasan, Rambutan, Sapodilla, Spanish lime, Star apple, Starfruit, Wax jambu

Restrictions
- Pre-Harvest Interval (PHI): 7 days
- Minimum interval between applications: 10 days
- Maximum of this product allowed per year: 10.7 ounces per acre (0.5 pound active ingredient per acre)
- DO NOT apply during bloom or within 10 days prior to bloom or when bees are foraging.

Pests Controlled	Application Rate (Oz/A)
Aphids	2.1
Leafhoppers/Sharpshooters	
Thrips	
Whiteflies	
Scales†	2.1

† Suppression only.

OTHER CROPS

Application Instructions
Apply as a broadcast or directed foliar spray to infested area as pest populations begin to build. Thorough uniform coverage using the rates below is necessary to achieve optimum control. To improve coverage, a spray adjuvant may be used. This product may not knock-down heavy or established insect infestations; scout fields and make two applications if necessary to achieve control. For knockdown of pests or for improved control of other pests, this product may be tank mixed with other insecticides as listed below.

POPLAR/COTTONWOOD
Includes members of the genus *Populus* grown for pulp or timber

Restrictions
- NOT for use in California unless otherwise directed by state-specific 24(c) labeling.
- Minimum interval between applications: 10 days
- Maximum of this product allowed per year: 10.7 ounces per acre (0.5 pound active ingredient per acre)
- DO NOT apply during bloom or within 10 days prior to bloom or when bees are foraging.

Pests Controlled	Application Rate (Oz/A)
Aphids	1.1 to 2.1
Leaf beetles	

CHRISTMAS TREE

Restrictions
- Minimum interval between applications: 7 days
- Maximum of this product allowed per year: 10.7 ounces per acre (0.5 pound active ingredient per acre)

Pests Controlled	Application Rate (Oz/A)	Application Instructions
Aphids Adelgids Sawflies	1.1 to 2.1	Gall-forming adelgids – time applications to coincide with full bud-swell or first bud-break of earliest bud-breaking trees. Once Galls form, spraying will be ineffective.

TURF AND ORNAMENTALS FOR PRODUCT PACKAGED IN WSP

MIXING AND APPLICATION INSTRUCTIONS

Inside each foil pouch is a clear, water-soluble inner packet containing this product. To prepare a solution, remove the outer foil pouch and drop the required number of unopened clear water-soluble packets into the spray tank while filling with water to the desired level. Be sure to agitate while mixing and depending on the amount of agitation and the water temperature, the packets should completely dissolve within a few minutes of being added to the water. Note that cooler water temperatures increase the time needed for the inner packet to completely dissolve.

Mixing Restrictions:
- DO NOT allow packets to become wet prior to adding to the tank.
- DO NOT handle the clean inner packets with wet hands or wet gloves.
- DO NOT use this product in a tank-mix with products that contain boron or release free chlorine. Combining these products will result in a plastic that is not soluble in water or solvents (such as diesel oils, kerosene, gasoline or alcohol). Chlorinated water may be used.

- Because the water-soluble packets are not soluble in petroleum-based liquids, **DO NOT** attempt to use this product's water-soluble packets directly in diesel oils or summer spray type oils such as those used in ULV or LV applications.
- DO NOT allow this product to contact plants in bloom if bees are foraging in the treatment area.

Rough handling of the packets may cause breakage.
Reseal outer carton to protect remaining packets.

Tank Mixes: This product has been found to be compatible with commonly used liquid fertilizers, fungicides and insecticides. If this product is not known to be compatible with your particular tank mix partners, check compatibility using the correct proportion of products in the following small jar test:
1) Add proportionate amount of each ingredient in the appropriate order to a pint or a quart jar;
2) Cap and shake for 5 minutes;
3) Let set for 5 minutes.

Do not use if poor mixing or formation of precipitates that do not readily re-disperse indicates an incompatible mixture. For further information, contact your local Loveland Products, Inc. representative.

Mixing Instructions: The enclosed packets containing this product are water-soluble and will completely dissolve in water. The proper mixing procedure for this product alone or in tank mix combinations with other pesticides is:
1. Fill the spray tank 1/4 to 1/3 full with clean water.
2. While recirculating and with the agitator running, add the required number of unopened packets of this product.
3. The packets should completely dissolve in 5 to 10 minutes; allow sufficient time for thorough mixing.
4. Continue to fill spray tank with water until 1/2 full.
5. If applicable, add remaining tank mix components in the following order: wettable powders, flowables, and emulsifiable concentrates. Ensure good agitation as each component is added. Do not add a tank mix component until the previous component is thoroughly mixed.
6. Fill spray tank to desired level and maintain constant agitation to ensure uniformity of spray mixture.

TURFGRASS

This product will control listed soil-inhabiting pests in grassy areas on home lawns, business and office complexes, shopping complexes, multi-family residential complexes, golf courses, airports, cemeteries, parks, playgrounds, athletic fields and sod farms. The need for an application can be based on historical monitoring of the site, previous records or experiences, current season adult trapping or other methods. Applications may be made preceding the egg laying activity of the target pests and high levels of control may be achieved when applications are made proceeding or during the egg laying period. For insect control, make applications prior to egg hatch of the target pests, followed by sufficient irrigation or rainfall to move the active ingredient through the thatch.

Use Restrictions:
- DO NOT exceed a total of 8.6 ounces (0.4 pound of active ingredient) per acre per year.
- DO NOT make applications when grassy areas are waterlogged or the soil is saturated with water because adequate distribution of the active ingredient cannot be achieved when these conditions exist.
- The treated grassy area must be in such a condition that the rainfall or irrigation will penetrate vertically in the soil profile.
- DO NOT mow treated areas until after sufficient rainfall or irrigation has occurred in order to maintain the uniformity of the application.
- DO NOT apply this product in a way that will contact people or pets.
- DO NOT allow children or pets to enter treated areas until sprays have dried.

Application Instructions:
Apply this product in sufficient water to provide adequate distribution in the treated area. Use of accurately calibrated equipment normally used for soil application of insecticides is required. Use equipment that will produce a uniform, coarse droplet spray, using a low pressure setting to eliminate off-target drift. Check calibration periodically to ensure that equipment is working properly.

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Pest	Application Rate	Specific Instructions
Larvae of: Annual bluegrass weevil Asiatic garden beetle Billbugs Black turfgrass ataenius Cutworms† European chafer European crane fly Green June beetle Japanese beetle Northern masked chafer Oriental beetle *Phyllophaga* spp. Southern masked chafer	1.6 oz (1 packet)/ 8250 to 11,000 sq ft	**Grubs, European crane fly, billbugs and annual bluegrass weevil:** For best results make applications prior to egg hatch of the target pest. **Chinchbugs:** Make applications prior to the hatching of the first instar nymphs. **Mole crickets:** Make applications prior to or during the peak egg hatching period. When adults or large nymphs are present and actively tunneling, accompany this product with a remedial insecticide. For insect control, the active ingredient must be moved through the thatch by irrigation or rainfall occurring within 24 hours after application.
Chinchbugs† Mole crickets	1.6 oz (1 packet)/ 8250 sq ft	

ORNAMENTALS, GROUNDCOVERS AND INTERIOR PLANTSCAPES

This product is a systemic insecticide that may be applied to ornamentals, groundcovers and interior plantscapes in and around industrial and commercial buildings and residential areas. The insecticide is translocated upward into the plant system and for best results must be placed where the growing portions of the target plant can absorb the active ingredient. When applicable, adding a fertilizer containing nitrogen into the spray solution may enhance plant uptake of this product.

Use Restriction
• Applications must not exceed a total of 8.6 ounces (0.4 pound of active ingredient) per acre per year.

Ant Management Programs:
This product may be used to limit the honeydew available as a food source for ant populations when controlling aphids, scale insects, mealy bugs and other sucking pests on ornamentals. Applications of this product may be supplemented with bait traps, residual sprays and other methods to further reduce the unwanted ant population.

Insect Resistance:
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. Consult your Cooperative Extension Service for resistance management strategies and recommended pest management practices for your area.

Woody Perennials:
Protection in woody perennials is slower than in herbaceous species and a delay of 2 or more weeks should be expected, with longer delays for larger plants. Because of this, make applications to woody perennials well in advance of expected insect activity.

Bark Media:
Treatments of this product to media with 30 to 50% or more bark content may confer a shorter period of protection.

Foliar and Broadcast Applications
This product may be applied as a broadcast or foliar application to trees (including non-bearing fruit and nut trees), shrubs, evergreens, flowers, foliage plants, ground covers, interior plantscapes and vegetable plants intended for resale.

Application Instructions:
Apply this product in sufficient water to provide adequate distribution in the treated area. Use of accurately calibrated equipment normally used for soil application of insecticides is required. Use equipment which will produce a uniform, coarse droplet spray, using a low pressure setting to eliminate off-target drift. Check calibration periodically to ensure that equipment is working properly.

When making foliar applications to plants with hard-to-wet foliage such as holly, pine or ivy, the use of a spreader/sticker may increase effectiveness.

Pest	Application Method	Application Rate	Specific Instructions
Adelgids Aphids Japanese beetle (adult) Lacebugs Leaf beetles (including Elm and Viburnum leaf beetles) Leafhoppers (including Glassy-winged sharpshooter) Leafminers Mealybugs Sawfly larvae Thrips† Whiteflies	Foliar	1.6 oz (1 packet)/ 300 gal of water	Make applications prior to establishment of large pest populations and retreat as necessary. Applying this product foliarly after a soil application in the same crop may reduce resistance management.
White grub larvae (such as Japanese beetle larvae, Chafers, *Phyllophaga* spp., Asiatic garden beetle and Oriental beetle)	Broadcast	1.6 oz (1 packet)/ 8250 to 11,000 sq ft	Mix the specified amount of this product in sufficient water to uniformly cover the area being treated using at least 2.0 gal of water per 1000 sq ft. For insect control, incorporate this product into the upper soil profile by irrigating after the application is made.

† Suppression only.

Soil Injection and Drench Applications

Application Site	Application Rate	Application Instructions	Pests Controlled
Trees (Application to trees already heavily infested may not prevent the eventual loss of the trees due to existing pest damage and tree stress.)	1.6 oz (1 packet)/ 24 to 48" of cumulative trunk diameter (DBH)	• **SOIL INJECTION – Restriction: No soil injection application allowed in Nassau or Suffolk counties of New York.** GRID SYSTEM: Holes must be spaced on 2.5 ft centers, in a grid pattern, extending to the drip line of the tree. CIRCLE SYSTEM: Apply in holes evenly spaced in circles, (use more than 1 circle dependent upon the size of the tree) beneath the drip line of the tree extending in from that line. BASAL SYSTEM: Space injection holes evenly around the base of the tree trunk no more than 6 to 12" out from the base. Mix required dosage in sufficient water to inject an equal amount of solution in each hole. Maintain a low pressure and use sufficient solution for distribution of the liquid into the treatment zone. For insect control, keep the treated area moist for 7 to 10 days. Do not use less than 4 holes /tree.	Adelgids Aphids Armored scale† Black vine weevil larvae Emerald ash borer Eucalyptus longhorned borers Flatheaded borers (including Bronze birch and Alder borers) Japanese beetles (adults) Lacebugs Leaf beetles (including Elm and Viburnum leaf beetles) Leafhoppers (including Glassy-winged sharpshooter) Leafminers Mealybugs Pine tip moth larvae Psyllids Royal palm bugs Sawfly larvae Soft scales Thrips† White grub larvae Whiteflies
		SOIL DRENCH: Remove plastic or any other barrier that will stop solution from reaching the root zone. Uniformly apply around the base of the tree, direct to the root zone as a drench in no less than 10 gal of water/1000 sq ft.	
Shrubs	1.6 oz (1 packet)/ 24 to 48 ft of cumulative shrub ht	• **SOIL INJECTION – Restriction: No soil injection application allowed in Nassau or Suffolk counties of New York.** Mix required dosage in sufficient water to inject an equal amount of solution in each hole. Using a minimum of 4 holes/shrub, apply to individual plants maintaining	

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		a low pressure and use sufficient solution for distribution of the liquid into the treatment zone. Keep the treated area moist for 7 to 10 days. **SOIL DRENCH:** Remove plastic or any other barrier that will stop solution from reaching the root zone. Uniformly apply around the base of the tree, direct to the root zone as a drench in no less than 10.0 gal of water/1000 sq ft.
Flowers and Ground Cover	1.6 oz (1 packet)/ 8250 to 11,000 sq ft	Apply as a broadcast treatment and incorporate into the soil before planting, or apply prior to bloom or after petal fall is complete for established plants. If application is made to established plants, irrigate thoroughly after application.

† Suppression only of these species

POME FRUIT IN AND ON RESIDENTIAL AREAS

Apple, Crabapple, Loquat, Mayhaw, Pear (including Oriental pear) Quince

Restrictions

- Pre-Harvest Interval (PHI): 7 days
- Reapplication Interval: At least 10 days
- Maximum applications per year: 5
- Not permitted for control on pears in California.

Pest	Ounces per 300 Gals.of Water	Ounces per Acre‡	Specific Instructions
Aphids (except Woolly apple aphid) Leafhoppers (including Glassy-winged sharpshooter) Leafminer Mealybugs San Jose scale	1.6 (1 packet)	2.1	Apply as a foliar spray as needed after petal-fall is complete. **Rosy apple aphid:** Apply prior to leaf rolling caused by the pest. **Leafhopper:** For late season (preharvest) control, apply while most Leafhoppers are in the nymphal stage. **Leafminer:** Make first application as soon as petal-fall is complete for control of first generation, with best results occurring when the application is made at the earliest possible time. For succeeding generations, best results occur when applications are made early in the adult flight against egg and early instar larvae. If generations are overlapping or severe pressure continues, a second application may be necessary after 10 days. A single application may result in suppression only. This product will not control late stage larvae. **Mealybug:** For insect control, be sure to have good spray coverage of the trunk and scaffolding limbs or other nesting sites. **San Jose scale:** Time applications to the crawler stage and treat each generation.

‡ The amount of this product required per acre depends on tree size and volume of foliage. The listed rate per acre is based on a standard of 400 gallons of dilute spray per acre for large trees.

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PECANS IN AND ON RESIDENTIAL AREAS

Restrictions

- **NOT PERMITTED IN CALIFORNIA unless otherwise directed by state-specific 24(c) labeling**
- Reapplication Interval: At least 10 days
- Maximum applications per year: 3
- Maximum of this product allowed per year: 6.3 ounces per acre.

Pest	Ounces/300 Gal of Water	Ounces /Acre‡	Specific Instructions
Yellow pecan aphid Black margined aphid Pecan leaf phylloxera Pecan spittlebug Pecan stem phylloxera	1.6 (1 packet)	2.1	Apply as a foliar spray as pest pressure builds but before infestation is extremely heavy. Two applications at a 10- to 14-day interval may be required to achieve control. For insect control, thorough and uniform coverage is necessary. Coverage may be improved through the use of an organosilicone-based spray adjuvant.

‡ The amount of this product required per acre depends on tree size and volume of foliage. The listed rate per acre is based on a standard of 400 gallons of dilute spray per acre for large trees.

GRAPES
ORNAMENTAL USE

Restrictions

- Reapplication Interval: At least 14 days
- Maximum of this product allowed per year: 2.0 ounces per acare

Ornamental Grapes In Industrial and Commercial Buildings and On Residential Areas

Pest	Ounces/300 Gal of Water	Ounces /Acre‡	Specific Instructions
Leafhoppers (including Glassy-winged sharpshooter) Mealybugs	1.6 (1 packet)	1.0	Apply as a foliar spray using 200 gal of water/A.

TURF AND ORNAMENTALS
FOR PRODUCT PACKAGED IN NON-WSP

TURFGRASS

This product will control listed soil-inhabiting pests in grassy areas such as home lawns, business and office complexes, shopping complexes, multi-family residential complexes, golf courses, airports, cemeteries, parks, playgrounds, and athletic fields and sod farms. The need for an application can be based on historical monitoring of the site, previous records or experiences, current season adult trapping or other methods. Applications may be made preceding the egg laying activity of the target pests and high levels of control may be achieved when applications are made proceeding or during the egg laying period. For insect control, make applications prior to egg hatch of the target pests, followed by sufficient irrigation or rainfall to move the active ingredient through the thatch.

Restrictions

- DO NOT exceed a total of 8.6 ounces (0.4 pound of active ingredient) per acre per year.
- DO NOT make applications when grassy areas are waterlogged or the soil is saturated with water because adequate distribution of the active ingredient cannot be achieved when these conditions exist.
- The treated grassy area must be in such a condition that the rainfall or irrigation will penetrate vertically in the soil profile.
- DO NOT mow treated areas until after sufficient rainfall or irrigation has occurred in order to maintain the uniformity of the application.
- DO NOT apply this product in a way that will contact people or pets.
- DO NOT allow children or pets to enter treated areas until sprays have dried.

Application Instructions:

Apply this product in sufficient water to provide adequate distribution in the treated area. Use of accurately calibrated equipment normally used for soil application of insecticides is required. Use equipment which will produce a uniform, coarse droplet spray, using a low pressure setting to eliminate off-target drift. Check calibration periodically to ensure that equipment is working properly.

Pest	Level Tsp/ 1000 Sq Ft	Ounces /Acre	Specific Instructions
Larvae of: Annual bluegrass weevil Asiatic garden beetle Billbugs Black turfgrass ataenius Cutworms† European chafer Green June beetle Japanese beetle Northern masked chafer Oriental beetle *Phyllophaga* spp. Southern masked chafer	2.5 to 4.0	5.4 to 8.6	**Grubs, European crane fly, Billbugs and Annual bluegrass weevil:** For best results make applications prior to egg hatch of the target pest. **Chinchbugs:** Make applications prior to the hatching of the first instar nymphs. **Mole crickets:** Make applications prior to or during the peak egg hatching period. When adults or large nymphs are present and actively tunneling, accompany this product with a remedial insecticide. For insect control, the active ingredient must be moved through the thatch by irrigation or rainfall occurring within 24 hr after application.
Chinchbugs† Mole crickets	4.0	8.6	

† Suppression only.
1.0 level teaspoon = 1.4 grams of this product
3.0 level teaspoons = 1.0 level tablespoon

ORNAMENTALS, GROUNDCOVERS AND INTERIOR PLANTSCAPES

This product is a systemic insecticide that may be applied to ornamentals, groundcovers and interior plantscapes in and around industrial and commercial buildings and residential areas. The insecticide is translocated upward into the plant system and for best results must be placed where the growing portions of the target plant can absorb the active ingredient. When applicable, adding a fertilizer containing nitrogen into the spray solution may enhance plant uptake of this product.

Ant Management Programs:
This product may be used to limit the honeydew available as a food source for ant populations when controlling aphids, scale insects, mealy bugs and other sucking pests on ornamentals. Applications of this product may be supplemented with bait traps, residual sprays and other methods to further reduce the unwanted ant population.

Insect Resistance:
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. Consult your Cooperative Extension Service for resistance management strategies and best pest management practices for your area.

Woody Perennials:
Protection in woody perennials is slower than in herbaceous species and a delay of 2 or more weeks should be expected, with longer delays for larger plants. Because of this, make applications to woody perennials well in advance of expected insect activity.

Bark Media:
Treatments of this product to media with 30 to 50% or more bark content may confer a shorter period of protection.

Foliar and Broadcast Applications
This product may be applied as a broadcast or foliar application to trees (including non-bearing fruit and nut trees), shrubs, evergreens, flowers, foliage plants, ground covers, interior plantscapes and vegetable plants intended for resale.

Application Instructions:
Apply this product in sufficient water to provide adequate distribution in the treated area. Use of accurately calibrated equipment normally used for soil application of insecticides is required. Use equipment which will produce a uniform, coarse droplet spray, using a low pressure setting to eliminate off-target drift. Check calibration periodically to ensure that equipment is working properly.

When making foliar applications to plants with hard-to-wet foliage such as holly, pine or ivy, use of a spreader/sticker may increase effectiveness.

MALICE® 75 WSP
EPA REG. NO. 34704-1009

Pest	Application Method	Application Rate Malice 75 WSP	Application Rate Water	Specific Instructions
Adelgids Aphids Japanese beetle (adult) Lacebugs Leaf beetles (including Elm and Viburnum leaf beetles) Leafhoppers (including Glassy-winged sharpshooter) Leafminers Mealybugs Sawfly larvae Thrips† Whiteflies	Foliar	0.25 tsp 0.50 tsp 1.0 tsp 2.5 tsp 5.0 tsp 3.0 tbsp + 1.0 tsp	2.5 gal 5.0 gal 10.0 gal 25.0 gal 50.0 gal 100 gal	Make applications prior to establishment of large pest populations and retreat as necessary. Do not apply this product foliarly after a soil application in the same crop for resistance management purposes.
White grub larvae (such as Japanese beetle larvae, Chafers, *Phyllophaga* spp., Asiatic garden beetle and Oriental beetle)	Broadcast	3.0 to 4.0 level tsp/1000 sq ft		Mix the specified amount of this product in sufficient water to uniformly cover the area being treated using at least 2.0 gal of water per 1000 sq ft. For insect control, incorporate this product into the upper soil profile by irrigating after the application is made.

† Suppression only.
1.0 level teaspoon = 1.4 grams of this product
3.0 level teaspoons = 1.0 level tablespoon

Soil Injection and Drench Applications

Application Site	Application Rate	Application Instructions	Pests Controlled
Trees (Application to trees already heavily infested may not prevent the eventual loss of the trees due to existing pest damage and tree stress.)	0.7 to 1.4 level tsp per inch of trunk diameter (DBH) or 1.0 to 2.0 oz/ 30 cumulative inches of trunk diameter (DBH)	• **SOIL INJECTION – Restriction: No soil injection application allowed in Nassau or Suffolk counties of New York.** GRID SYSTEM: Holes must be spaced on 2.5 ft centers, in a grid pattern, extending to the drip line of the tree. CIRCLE SYSTEM: Apply in holes evenly spaced in circles, (use more than one circle dependent upon the size of the tree) beneath the drip line of the tree extending in from that line. BASAL SYSTEM: Space injection holes evenly around the base of the tree trunk no more than 6 to 12 inches out from the base. Mix required dosage in sufficient water to inject an equal amount of solution in each hole. Maintain a low pressure and use sufficient solution for distribution of the liquid into the treatment zone. For insect control, keep the treated area moist for 7 to 10 days. Do not use less than 4 holes per tree. **SOIL DRENCH:** Remove plastic or any other barrier that will stop solution from reaching the root zone. Uniformly apply around the base of the tree, direct to the root zone as a drench in no less than 10.0 gal of water 1000 sq ft.	Adelgids Aphids Armored scale† Black vine weevil larvae Eucalyptus longhorned borers Flatheaded borers (including Bronze birch and Alder borers) Japanese beetles (adults) Lacebugs Leaf beetles (including Elm and Viburnum leaf beetles) Leafhoppers (including Glassy-winged sharpshooter) Leafminers Mealybugs Pine tip moth larvae Psyllids Royal palm bugs Sawfly larvae Soft scales Thrips† White grub larvae Whiteflies

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Shrubs	0.7 to 1.4 level tsp/ft of shrub ht or 1.0 to 2.0 oz/30 cumulative ft of shrub ht	• **SOIL INJECTION – Restriction: No soil injection application allowed in Nassau or Suffolk counties of New York.** Mix required dosage in sufficient water to inject an equal amount of solution in each hole. Using a minimum of 4 holes/shrub, apply to individual plants maintaining a low pressure and use sufficient solution for distribution of the liquid into the treatment zone. Keep the treated area moist for 7 to 10 days. **SOIL DRENCH:** Remove plastic or any other barrier that will stop solution from reaching the root zone. Uniformly apply around the base of the tree, direct to the root zone as a drench in no less than 10.0 gal of water/1000 sq ft.
Flowers and Ground Cover	3.0 to 4.0 level tsp/1000 sq ft	Apply as a broadcast treatment and incorporate into the soil before planting, or apply prior to bloom or after petal fall is complete for established plants. If application is made to established plants, irrigate thoroughly after application.

† Suppression only of these species.
1.0 level teaspoon = 1.4 grams of this product
3.0 level teaspoons = 1.0 level tablespoon

POME FRUIT IN AND ON RESIDENTIAL AREAS

Apple, Crabapple, Loquat, Mayhaw, Pear (including Oriental pear) Quince

Restrictions

- Pre-Harvest Interval (PHI): 7 days
- Reapplication Interval: At least 10 days
- Maximum single application rate (per acre): 2.0 ounces
- Maximum applications per year: 5

Pest	Ounces/100 Gal of Water	Ounces /Acre‡	Specific Instructions
Aphids (except Wooly apple aphid) Leafhoppers (including Glassy-winged sharpshooter) Leafminer Mealybugs† San Jose Scale†	0.5 oz. (3.0 tbsp + 1.0 tsp)	2.0	Apply as a foliar spray as needed after petal-fall is complete. **Rosy apple aphid:** Apply prior to leaf rolling caused by the pest. **Leafhopper:** For late season (preharvest) control, apply while most Leafhoppers are in the nymphal stage. **Leafminer:** Make first application as soon as petal-fall is complete for control of first generation with best results occurring when the application is made at the earliest possible time. For succeeding generations, best results occur when applications are made early in the adult flight against egg and early instar larvae. If generations are overlapping or severe pressure continues, a second application may be necessary after 10 days. A single application may result in suppression only. This product will not control late stage larvae. **Mealybug:** For best results be sure to have good spray coverage of the trunk and scaffolding limbs or other nesting sites. **San Jose scale:** Time applications to the crawler stage and treat each generation.

† Not permitted for control on pears in California.
‡ The amount of this product required per acre depends on tree size and volume of foliage. The listed rate per acre is based on a standard of 400 gallons of dilute spray per acre for large trees.
1.0 level teaspoon = 1.4 grams of this product
3.0 level teaspoons = 1.0 level tablespoon

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PECANS IN AND ON RESIDENTIAL AREAS

Restrictions

- **NOT PERMITTED IN CALIFORNIA unless otherwise directed by state-specific 24(c) labeling**
- Reapplication Interval: At least 10 days
- Maximum applications per year: 3
- Maximum of this product allowed per year: 6.3 ounce sper acre
- DO NOT apply more than 6.3 ounces of product per acre per year.

Pest	Ounces/100 Gal of Water	Ounces /Acre‡	Specific Instructions
Yellow pecan aphid Black margined aphid Pecan leaf phylloxera Pecan spittlebug Pecan stem phylloxera	0.5 oz (3.0 tbsp + 1.0 tsp)	2.0	Apply as a foliar spray as pest pressure builds but before infestation is extremely heavy. Two applications at a 10- to 14-day interval may be required to achieve control. For insect control, thorough and uniform coverage is necessary. Coverage may be improved through the use of an organosilicone-based spray adjuvant. An addition of organosilicone-based spray adjuvant may not exceed the adjuvant manufacturer's labeled use rate.

‡ The amount of this product required per acre depends on tree size and volume of foliage. The listed rate per acre is based on a standard of 400 gallons of dilute spray per acre for large trees.
1.0 level teaspoon = 1.4 grams of this product
3.0 level teaspoons = 1.0 level tablespoon

GRAPES
ORNAMENTAL USE

Restrictions

- Reapplication Interval: At least 14 days
- Maximum of this product allowed per year: 2.0 ounces per acre
- DO NOT apply more than 2.0 ounces of product per acre per year.

Ornamental Grapes in Industrial and Commercial Buildings and on Residential Areas

Pest	Ounces/100 Gal of Water	Ounces /Acre‡	Specific Instructions
Leafhoppers (including Glassy-winged sharpshooter) Mealybugs	0.5 oz (3.0 tbsp + 1.0 tsp)	1.0	Apply as a foliar spray using 200 gallons of water/A. Applications may be applied up to and including the day of harvest.

STORAGE AND DISPOSAL

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

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

PESTICIDE STORAGE [For product packaged in Water-soluble Packaging]: Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food and feed. Store in original container and out of the reach of children, preferably in a locked storage area. Exposure to moisture or excessive handling of water-soluble packets may cause breakage.

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

Container Disposal: Do not reuse or refill this container.

Outer Packaging: Outer Packaging for this product is secondary packaging to contain either non water soluble plastic bags or water soluble plastic bags: Thoroughly rinse any soluble powder residue from pail or box into application equipment; then offer for recycling if available or dispose of in a sanitary landfill.

Non water-soluble plastic bags: Completely empty plastic bags into application equipment, ensure that all product is removed from the bag and then offer for recycling if available or dispose of in a sanitary landfill.

Water-soluble plastic bags: After adding water-soluble plastic bags to the spray tank, allow sufficient time for bags to dissolve before spraying. There is no container disposal once the bag has been dissolved in the spray tank.

For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC – 1-800-424-9300

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MALICE® 75 WSP
EPA REG. NO. 34704-1009

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

BEFORE BUYING OR USING THIS PRODUCT, read the entire Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary in any way.

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