

 <p style="text-align: center;">U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505P) 1200 Pennsylvania Avenue, N.W. Washington, D.C. 20460</p> <p style="text-align: center;">NOTICE OF PESTICIDE: <input checked="" type="checkbox"/> Registration <input type="checkbox"/> Reregistration</p> <p style="text-align: center;">(Under FIFRA as amended)</p>	EPA Reg. Number: 84836-16	Date of Issuance: AUG 12 2009
	Term of Issuance: Conditional	
	Name of Pesticide Product: Reality® 25 Insecticide	
Name and Address of Registrant (include ZIP Code): Gharda Generics, Inc. 660 Newtown-Yardley Road, Suite 106 Newtown, PA 18940		
<p>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.</p>		
<p>On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.</p> <p>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.</p> <p>This product is <u>conditionally</u> registered in accordance with FIFRA sec. 3(c)(7)(A), provided that you:</p> <ol style="list-style-type: none"> 1. You will submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4. 2. You will make the following label changes before you release the product for shipment: <ol style="list-style-type: none"> a. Revise the EPA Registration Number to read "EPA Registration Number 84836-16." 		
Signature of Approving Official: <i>Linda A De Loria for Richard Gebken</i>		Date: <i>August 12, 2009</i>

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b. Change the TABLE OF CONTENTS on page 2 to reflect the comments below.

c. Add a Nonagricultural Worker Protection Standard box.

d. Change "Hazards to Humans (& and Domestic Animals)" with "Hazards to Humans and Domestic Animals".

e. Relocate the paragraph under Directions for Use beginning "Do not apply this pesticide in a way...etc." and ending "...State or Tribe, consult the agency responsible for pesticide regulation" to appear directly above the Agricultural Use Requirements box.

f. On page 6 correct the website URL (address) for guidance to read as follows: www.in.nrcs.usda.gov/technical/agronomy/newconbuf.pdf.

g. On page 7 delete the Buffer zone for ULV Application instructions. This use is prohibited on page 6 by your statement "Do not apply this product by ULV cold foggers or fog/mist generators.

h. Move the Chemigation Use Directions section to before the General Instruction section.

i. Under Mixing Instructions change "Within each container... cause breakage." To "Reality® 25 Insecticide, a wettable powder formulation of the insecticide permethrin, is individually packaged in one-pound units in a translucent water soluble bag contained within an outer package. Do not open the water soluble bags. Do not allow the inner bag to become wet before adding to spray tank. Do not handle the inner bag with wet hands or wet gloves. Rough handling may cause breakage. Do not store at temperatures below 32°F (0°C). Allow to warm above 50 degrees F° (10°C) before normal use. Cooler water temperatures increase the time needed for the inner bag to dissolve completely."

j. Move the Preharvest Interval (PHI) statement from the box below the crop to next to the crop heading (i.e. Artichoke (0 day PHI)) for all crops.

k. In the listing of crops under the heading "Leafy Vegetables (except Brassica)" change "For lettuce.." to "For lettuce, head and leaf..".

l. Move the "Pistachios" section to before the Potatoes section.

m. On page 27 change "Greenhouse and Nursery Applications" to "Greenhouse Application". Greenhouse and Nursery applications must be separate.

n. On page 27 delete change "Ornamental Nursery Stock (Field Grown: Including, Lath and Shade Grown Shrubs, Plants, Flowers and Non-Bearing Fruit and Nut Trees)." to "Greenhouse Grown Ornamental Trees, Shrubs, Plants, and Flowers, No-bearing Fruit and Nut Trees and Lath and Shade House Use."

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- o. On page 27 under Greenhouse delete "Cabbage Looper and Citrus Thrips" these were not on the cited label.
- p. On page 27 under Greenhouse change "Insects Controlled*" to Insects Controlled".
- q. On page 27 under Greenhouse delete "*for additional insects controlled See AGRICULTURAL FIELD APPLICATIONS under the Directions for Use Section of this label.".
- r. On page 27 under Greenhouse the rate of application for Cucumber Beetle, Cutworms, Elm Leaf Beetle, Fall Webworm, Flea Beetle, Fungus Gnats, Leafhoppers, Leaf Feeding Caterpillars and Loopers should be 3.3 to 12.5 ounces (0.05 to 0.2 pound active) per 100 gallons of water.
- s. On page 27 under Greenhouse the rate of application for Aphids, Armyworms, Heliothis Spp, Lacebugs, Plant Bugs (including Lugus Spp), Whiteflies, Thrips, Leafrollers, Lepidopterous, Squash Bugs and Weevils should be 6.7 to 12.5 ounces (0.1 to 0.2 pound active) per 100 gallons of water.
- t. On page 27 under Greenhouse the rate of application for Brown Soft scale and Japanese Beetle should be 12.5 ounces (0.2 pound active) per 100 gallons of water.
- u. On page 27 add an additional heading "Ornamental Nursery Stock (Field Grown)".
- v. On page 27 use the under the heading "Ornamental Nursery Stock (Field Grown)" add "Insect Controlled "Bagworm, Beet Armyworm, Cabbage Looper, Citrus Thrips, Heliothis spp., Lace Bug, Leafhoppers, Leafminers and Whiteflies".
- w. The rate of application for Ornamental Nursery Stock (Field Grown) is the same as listed on page 27.
- x. The method of application for Ornamental Nursery Stock (Field Grown) is the same as that under Greenhouse is the same except delete "Use of an alternate class of chemistry in a treatment program is recommended to prevent or delay pest resistance."
- y. On page 30 change "Field Grown" to "Field Grown (only)" and "Greenhouse Grown" to "Greenhouse Grown (Only)".
- z. On page 30 Under field grown delete "Caution: Varieties may vary in their sensitivity to Reality 25 and a small number of plants should be treated under local conditions to determine plant safety prior to commercial use.". This restriction applies only to greenhouse grown roses.
- aa. On page 33 before "Conditions of Sale and Limitation of Warranty and Liability" add "Dealers Must Sell in Original Packages Only."

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ACUTE TOXICITY REVIEW

STUDY	MRID	CATEGORY	CLASSIFICATION
Acute Oral	47653903	III	Acceptable
Acute Dermal	47653904	IV	Acceptable
Acute Inhalation	47653905	IV	Acceptable
Eye Irritation	47653906	III	Acceptable
Dermal Irritation	47653907	IV	Acceptable
Dermal Sensitization	47653908	Negative	Acceptable

3. You must conduct a one year storage stability and corrosion characteristics study (830.6317) on the proposed product. Observations must be made at 0, 3, 6, 9 and 12 month intervals. The results must be submitted to the Agency in electronic and hard copy format.

4. Please submit two (2) copies of your final printed labeling before releasing the product for shipment. If these conditions 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 bearing amended labeling constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

If you have any questions regarding this action, please contact Linda A. DeLuise of my team at (703) 305-5428.

7/31/09 received

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[Front Container label and/or Booklet Cover]

RESTRICTED USE PESTICIDE
Toxic to fish and aquatic organisms
 For retail sale to and use only by certified applicators, or persons under their direct supervision and only for those uses covered by the certified applicator's certification.

REALITY[®] 25

Insecticide in Water Soluble Packets

Active Ingredients	By Wt.
*Permethrin**	25.0%
Inert Ingredients:	75.0%
	100.0%

*(3-Phenoxyphenyl)methyl (±) cis-trans 3-(2,2-dichloroethenyl)-2, 2-dimethylcyclopropanecarboxylate

**cis/trans ratio: Max. 55% (±) cis and min. 45% (±) trans

Keep water soluble packets in this container and store in a cool dry place but not below freezing (32°F). Do not remove packets from container except for immediate use.

First letters in Batch Code Indicate Producing establishment:

EPA Reg. No. 84836-RA

EPA Est. No.: 5905-GA-01 = CG

5905-IA-01 = DI

KEEP OUT OF REACH OF CHILDREN CAUTION/CUIDADO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.

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.

HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact **PROSAR 1- 866-359-5660** for emergency medical treatment.

See other Inside Booklet for Directions for Use and additional Precautionary Statements.

REALITY[®] is a Registered Trademark of Gharda Chemicals Limited

GHARDA GENERICS, INC.
660 Newtown-Yardley Rd.
Newtown, Pa 18940
(215) 968-9474

NET CONTENTS
1 x 2.0 lb
Water Soluble Packet

RECEIVED
with COMMENTS
to EPA Label Draft

AUG 12 2009

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 84836-16

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[To be finalized at label printing]

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PRECAUTIONARY STATEMENTS

Hazards to Humans (& Domestic Animals)

CAUTION: Harmful if swallowed. Causes moderate eye irritation. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Avoid contact with eyes or clothing. Wear: Long-sleeved shirt and long pants, socks, shoes, and gloves.

Personal Protective Equipment(PPE):

Some materials that are chemical-resistant to this product are natural rubber. If you want more options, follow the instructions for category A on the EPA chemical-resistance category selection chart.

All mixer, loaders, applicators and other handlers must wear:

- long-sleeved shirt and long pants
- shoes plus socks,
- Chemical-resistant gloves for all handlers except for applicators using motorized ground equipment, pilots, and flaggers.
- Chemical –resistant apron for mixers/loaders, persons cleaning equipment, and persons exposed to the concentrate.

See engineering controls for more requirements.

Engineering Control Statements

Water-soluble packets when used correctly qualify as a closed mixing/loading system under the Worker Protection standard for Agricultural Pesticides [40 CFR 170.240(d)(4)]. Mixers and loaders using water-soluble packets must:

- wear the personal protective equipment required in the PPE section of this labeling for mixers and loaders, and
- be provided and must have immediately available for use in an emergency, such as a broken package, spill, or equipment breakdown chemical resistant footwear and dust/mist respirators.

Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)].

User Safety Requirements

Users should:

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

Discard clothing and other absorbent materials that have been drenched (except as required by directions for use) or heavily contaminated with this product's concentrate. Do not reuse them.

Environmental Hazards

This pesticide is extremely toxic to aquatic organisms, including fish and invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below

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the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash waters.

Under some conditions, it may also have a potential for transport into surface water in runoff (primarily adsorbed to suspended soil particles), for several months or more after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, and areas overlying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-lying tile drainage systems that drain surface waters.

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 while bees are actively visiting the treatment area.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

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.

Resistance. Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. Consult your local or state agricultural authorities for details.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for your area.

AGRICULTURAL USE REQUIREMENTS

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

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

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, and
- shoes plus socks.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

Pesticide Storage: Store in original container and out of the reach of children, in a secured cool dry storage area as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Do not store at temperatures below 32°F (0°C).

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): Do not reuse or refill this container. Dispose of empty container in a sanitary landfill, by incineration or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC AT 1-800-424-9300

GENERAL INSTRUCTIONS

Reality 25 insecticide is a 25% wettable powder formulation of the insecticide permethrin. Apply Reality 25 when insects appear or feeding is noticed. The higher rate should be used as pest populations increase. Repeat the application as necessary to maintain control. Reality 25 may be applied by both ground and aerial equipment. Use sufficient water to obtain full coverage.

Do not apply this product by ULV cold foggers or fog/mist generators.

Mix as needed, do not store diluted material.

Spray Drift Management

AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR AND THE GROWER.

The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

BUFFER ZONES

Vegetative Buffer Strip

Construct and maintain a minimum 10-foot-wide vegetative filter strip of grass or other permanent vegetation between the field edge and down gradient aquatic habitat (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marshes or natural ponds; estuaries; and commercial fish farm ponds). Only apply products containing permethrin onto fields where a maintained vegetative buffer strip of at least 10 feet exists between the field and down gradient aquatic habitat.

For guidance, refer to the following publication for information on constructing and maintaining effective buffers: *Conservation Buffers to Reduce Pesticide Losses*. Natural Resources Conservation Services. USDA, NRCS. 2000. Fort Worth, Texas. 21 pp.

[Http://www.in.csusda/v/technical/agronom/newconbuf.pdf](http://www.in.csusda/v/technical/agronom/newconbuf.pdf)

Buffer Zone for Ground Application (groundboom, overhead chemigation, or airblast) - Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, ponds, estuaries, and commercial fish ponds).

Buffer Zone for ULV Aerial Application - Do not apply within 450 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, ponds, estuaries, and commercial fish ponds).

Buffer Zone for Non-ULV Aerial Application - Do not apply within 150 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, ponds, estuaries, and commercial fish ponds).

Spray Drift Requirements

Wind Direction and Speed

Only apply this product if the wind direction favors on-target deposition.

Do not apply when the wind velocity exceeds 15 mph.

Temperature Inversion

Do not make aerial or ground applications into temperature inversions.

Inversions are characterized by stable air and increasing temperatures with height above ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

Droplet Size

Use only Medium or coarser spray nozzles (for ground and non-ULV aerial application) according to ASAE (S572) definition for standard nozzles. In conditions of low humidity and high temperatures, applicators should use a coarse droplet size.

Additional Requirements for Ground Applications

Wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application.

For ground boom applications, apply using a nozzle height of no more than 4 feet above the ground or crop canopy.

For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.

Additional Requirements for Aerial Applications

The spray boom should be mounted on the aircraft as to minimize drift caused by wingtip or rotor vortices.

The minimum practical boom length should be used and must not exceed 75% of the wing span or 80% rotor diameter.

Flight speed and nozzle orientation must be considered in determining droplet size.

Spray must be released at the lowest height consistent with pest control and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.

When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.

Chemigation

Apply this product only through sprinkler type chemigation systems, including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system.

Crop injury, lack of effectiveness, or illegal residues in the crop can result from nonuniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts. 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. The system must contain a functional check valve, vacuum relief valve, and low-pressure drain

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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.

Mixing Instructions

Within each container are clear inner Packets containing a 25% Wettable Powder formulation of Reality 25 insecticide. The clear inner packets are water soluble. Do not allow packets to become wet prior to adding to the spray tank. Do not handle the clear inner packets with wet hands or wet gloves. Rough handling may cause breakage. Reseal the container to protect remaining packets. Reality 25 Insecticide Water Soluble Packets dissolve readily in water to form a suspension. Reality 25 Insecticide should be diluted in a sufficient volume of water to ensure accurate application over the area to be treated.

Chemigation Application: Determine from the "Application Rate Calculation" Section below the recommended number of packets to be added to the supply tank based on the number of acres to be treated and the rate of Reality 25 to be applied. Pre-mix the required number of Reality 25 packets with sufficient water to dissolve the packets, then add this pre-mixed solution to the chemigation supply tank. Maintain sufficient agitation during both mixing and application to ensure uniformity of the mixture in the supply tank. Hydraulic or mechanical agitation is recommended. Reality 25 should be applied continuously for the duration of the water application. When applying Reality 25 thru chemigation, a minimum of 0.1 inch per acre of irrigation water is recommended.

Sprayer Application: To prepare a spray mixture, drop the required number of unopened clear water soluble packets into the spray tank containing an adequate amount of water to initiate agitation in the spray tank. Determine from the "Application Rate Calculation" Section below the recommended number of packets to be added to the supply tank based on the number of acres to be treated and the rate of Reality 25 to be applied. Add the remaining volume of water to the tank while maintaining sufficient agitation to dissolve the packets. Maintain uniformity of the suspension during application. Hydraulic or mechanical agitation is recommended. Do not use strainers finer than 50 mesh size.

Application Rate Calculation: Calculate the number of packets needed for the recommended rate according to the following formula:

Recommended Rate of Application (Active/Acre)	X	Number of Acres to be treated with the volume of water in the spray tank	=	Number of Packets required to deliver the recommended rate
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ROTATIONAL RESTRICTIONS

With the exception of crops listed below, rotational crops should not be planted within 60 days of last application.

Field Crop Applications

Alfalfa; Alfalfa Grown for Seed

(Includes lucerne, sainfoin, holy clover, esparcet, birdsfoot trefoil and varieties and/or hybrids of these)

Insects Controlled	Rate of Application	Method of Application
Alfalfa Caterpillar Armyworms spp. Blue Alfalfa Aphid Cutworms Green Cloverworm Green Peach Aphid Loopers Pea Aphid Spotted Alfalfa Aphid Velvetbean Caterpillar Webworms	3.2 to 12.8 ounces (0.05 to 0.2 pound active) per acre	Use higher recommended dosage for increased pest pressure or for increased residual pest control. Apply with ground equipment in a minimum of 10 gallons of finished spray per acre or 2 gallons of finished spray per acre by aircraft.
Alfalfa Weevil Cucumber Beetle Egyptian Alfalfa Weevil Meadow Spittlebug Plant Bugs (including <i>Lygus</i> spp.) Potato Leafhopper Stink Bugs	6.4 to 12.8 ounces (0.1 to 0.2 pound active) per acre	
<p>Preharvest Interval (PHI): 0 day* RESTRICTIONS: *When rates greater than 0.1 pound active per acre are used, do not apply within 14 days of harvest. Do not apply more than 0.2 pound active ingredient per cutting. Do not make applications less than 30 days apart. Do not apply to mixed stands with intentionally grown forage grasses and/or legumes.</p>		

Apples

Insects Controlled	Rate of Application	Method of Application
Green Fruitworm Oblique Banded Leafroller Plum Curculio Redbanded Leafroller Rosy Apple Aphid Spotted Tentiform Leafminer Tarnished Plant Bug White Apple Leafhopper	6.4 to 16.0 ounces (0.1 to 0.25 pound active) per acre	Use with ground equipment only. Apply in 25-400 gallons of finished spray per acre when insects first appear and repeat at 10 day intervals as needed to provide control.

Preharvest Interval (PHI): 0 Day
RESTRICTIONS:
 Do not apply more than 0.5 pound active ingredient per acre per season.
 Do not apply after petal fall.
 Do not graze livestock in treated areas.
 Do not feed cover crops from treated areas to livestock.
 Do not make applications less than 10 days apart.

Artichoke

Insects Controlled	Rate of Application	Method of Application
Artichoke Plume Moth Leafminers	6.4 to 19.2 ounces (0.1 to 0.3 pound active) per acre.	Apply with ground equipment in a minimum of 10 gallons of finished spray per acre or in a minimum of 2 gallons per acre by aircraft. Apply when insects first appear and repeat at 10 day intervals as needed to provide control. Buds may be harvested on the day of application.

Preharvest Interval (PHI): 0 Day
RESTRICTIONS:
 Do not apply more than 0.9 pound active ingredient per acre per season.
 Do not make applications less than 10 days apart.

Asparagus

Insects Controlled	Rate of Application	Method of Application
Asparagus Beetle Cutworms	3.2 to 6.4 ounces (0.05 to 0.1 pound active) per acre	Apply with ground equipment in a minimum of 10 gallons of finished spray per acre. Apply when insects first appear and repeat at 7 day intervals as needed to provide control.
Asparagus Beetle Japanese Beetle (Adult stage)* Lygus Bugs Tarnished Plant Bug	6.4 ounces (0.1 pound active) per acre	For post harvest application, apply to the fern stage of the asparagus plant after spear harvest when larval and adult stage are present. *Not for control of this insect in California.

Preharvest Interval (PHI): 1 Day
RESTRICTIONS:
 Do not apply more than 0.4 pound active ingredient per acre per season.
 Do not make applications less than 7 days apart.

Avocado

Insects Controlled	Rate of Application	Method of Application
Avocado Caterpillar Avocado Lace Bug Avocado Leafhopper Avocado Leafroller Avocado Looper Avocado Tree Girdler Avocado Whitefly Brown Soft Scale Mirids Omnivorous Looper Orange Tortrix Scale Crawlers Spanworm Thrips Twig Borers	12.8 ounces (0.2 pound active) per acre	Apply with ground equipment in 25-400 gallons of finished spray per acre. Apply when insects first appear and repeat at 7 day intervals as needed to provide control.
<p>Preharvest Interval (PHI): 7 Days RESTRICTIONS: Do not apply more than 0.8 pounds active ingredient per acre per season. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock. Do not make applications less than 7 days apart.</p>		

Broccoli; Chinese Broccoli (gai lan, white flowering broccoli);

Insects Controlled	Rate of Application	Method of Application
Armyworm spp. Cabbage Looper Diamondback Moth Imported Cabbageworm Plant Bugs Thrips	3.2 to 6.4 ounces (0.05 to 0.2 pound active) per acre	Apply with ground equipment in a minimum of 10 gallons of finished spray per acre or in a minimum of 2 gallons per acre by aircraft. Apply when insects first appear and repeat at 5 day intervals as needed to provide control.
<p>Preharvest Interval (PHI): 1 Day RESTRICTIONS: Do not apply more than 0.8 pound active per acre per season. Do not make applications less than 5 days apart.</p>		

Brussels Sprouts; Cauliflower; Cavalo broccolo; Kohlrabi

Insects Controlled	Rate of Application	Method of Application
Armyworm spp. Cabbage Looper Diamondback Moth Imported Cabbageworm Plant Bugs Thrips	3.2 to 6.4 ounces (0.05 to 0.1 pound active) per acre	Apply with ground equipment in a minimum of 10 gallons of finished spray per acre or in a minimum of 2 gallons per acre by aircraft. Apply when insects first appear and repeat at 5 day intervals as needed to provide control.
<p>Preharvest Interval (PHI): 1 Day RESTRICTIONS: Do not apply more than 0.4 pound active per acre per season. Do not make applications less than 5 days apart.</p>		

Cabbage; Cabbage, Chinese (napa) (tight-heading varieties only)

Insects Controlled	Rate of Application	Method of Application
Cabbage Looper Diamondback Moth Imported Cabbageworm Southern White Butterfly	3.2 to 12.8 ounces (0.05 to 0.2 pound active) per acre	Apply with ground equipment in a minimum of 10 gallons per acre or in a minimum of 2 gallons per acre by aircraft. Apply when insects first appear and repeat at 5 day intervals as needed to provide control.
Armyworm spp. Cutworms Flea Beetles	6.4 to 12.8 ounces (0.1 to 0.2 pound active) per acre	
<p>Preharvest Interval (PHI): 1 Day RESTRICTIONS: Do not apply more than 0.4 pound active ingredient per acre per season (0.8 pound active ingredient per acre only in Hawaii). Do not make applications less than 5 days apart.</p>		

Cantaloupes: For general use directions refer to the Cucurbit Vegetables crop grouping.

Celery, Florence fennel (sweet anise, sweet fennel, finocchio) (fresh leaves and leaf petioles only): For general use directions refer to the Leafy Vegetable crop grouping.

Cherries (Includes Sweet Cherries and Tart Cherries)

Insects Controlled	Rate of Application	Method of Application
Green Fruitworm Lesser Peach Tree Borer Plum Curculio Redbanded Leafroller Rose Chafer Tarnished Plant Bug	6.4 to 12.8 ounces (0.1 to 0.2 pound active) per acre	Use Reality 25 insecticide as a dilute spray. Apply when insects first appear and repeat at 10 day intervals as needed to provide control. Apply with ground equipment in 25-400 gallons of finished spray per acre.
<p>Preharvest Interval (PHI): 3 Days RESTRICTIONS: Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock. <i>East of the Rockies</i>, do not exceed 6 applications per season, with no more than 4 applications after petal fall, no more than 0.6 pound active ingredient per acre per season <i>West of the Rockies</i>, do not apply more than 4 applications per season, with no more than 3 applications after petal fall, no more than 0.6 pound active ingredient per acre per season. Do not make applications less than 10 days apart.</p>		

Collards and Turnips

Insects Controlled	Rate of Application	Method of Application
Beet Armyworm Cabbage Looper Corn Earworm Cutworms Diamondback Moth European Corn Borer Fall Armyworm Green Cloverworm Imported Cabbageworm Leafhoppers Leafminer Southern Armyworm Southern White Butterfly Tobacco Budworm Vegetable Leafminer Aphids*	3.2 to 9.6 ounces (0.05 to 0.15 pound active) per acre	Apply with ground equipment only. Apply with ground equipment in a minimum spray volume of 10 gallons of finished spray per acre. Apply when insects first appear and repeat at 3 day intervals as needed to provide control.

Preharvest Interval (PHI): 1 Day
RESTRICTIONS:
 For use on Collards in AR, AZ, GA, IL, NC, OK, SC, and TX and on Turnips in FL, GA, IL, IN, OK, SC, TX, and WA. Do not apply more than 0.45 pound active ingredient per acre per season on Collards and Turnips.
 Do not make applications less than 3 days apart.
 * Suppression only.

Corn (Field), Field Corn Grown for Seed, Popcorn

Insects Controlled	Rate of Application	Method of Application
<p>Preemergent Use: Armyworms Cutworms Stalk Borers</p>	<p>6.4 to 9.6 ounces (0.1 to 0.15 pound active) per acre as a broadcast spray OR 0.5 to 0.75 ounces per 1000 linear feet row (based on a 4" band and 40" row spacing.)</p>	<p>Reality 25 may be applied as a preplant incorporated, pre-emergence, or at planting time application. Apply as a broadcast spray by ground or air (minimum of 2 gallons finished spray per acre by air) or 4-15 inch band using sufficient spray volume to achieve adequate coverage. Linear row calculations should be used proportional to the standard Band Width/Row Width formula to adjust rates for different band widths or row spacings. Use higher rates of Reality 25 when incorporating into the soil without exceeding the recommended dosage. When using tank mixes, observe all restrictions and precautions which appear on the labels of these products. Provide constant agitation during mixing and application to keep the mixture in solution.</p>

<p>Foliar Use: Armyworm (including Fall Armyworm) Corn Borers European Southwestern Corn Earworm Corn Rootworm Beetles Cutworms Flea Beetle Hop Vine Borer Stalk Borers Webworms</p>	<p>6.4 to 9.6 ounces (0.1 to 0.15 pound active) per acre</p>	<p>When treating for stalk borers, Reality 25 must be applied when or shortly before the stalk borer larvae are moving into the corn from surrounding weeds and grasses. Mowing or burndown herbicide are suggested to initiate movement. For control of Corn Earworm apply just before silking and repeat at 7 day intervals as needed to provide control. Apply a minimum of 2 gallons of finished spray per acre by air or 10 gallons per acre with ground equipment.</p>
<p style="text-align: center;">Insects Controlled</p>	<p style="text-align: center;">Rate of Application</p>	<p style="text-align: center;">Method of Application</p>
<p>Foliar Use: Western Bean Cutworm</p>	<p>3.2 to 6.4 ounces (0.05 to 0.1 pound active) per acre</p>	
<p>Preharvest Interval (PHI): 0 Day RESTRICTIONS: Up to 0.45 pound active ingredient may be used per season. Do not make treatments less than 7 days apart or apply less than 30 days prior to harvest of grain or fodder (stover). Forage may be harvested on the day of application.</p>		

Corn (Field), Field Corn Grown for Seed, Popcorn (At Plant Use)

Insects Controlled	Rate of Application	Method of Application
<p>Armyworms Cutworms</p>	<p>0.5 ounces per 1,000 linear feet of row</p>	<p>Apply as an in-furrow, band or T-band treatment using a minimum 4" band. Use table below to determine the Reality 25 needs for each acre.</p>
<p>Row Spacings (inches)</p>	<p style="text-align: center;">40</p>	<p style="text-align: center;">30 20</p>
<p>Reality 25 (pounds ai per acre)</p>	<p style="text-align: center;">0.10</p>	<p style="text-align: center;">0.15 0.20</p>
<p>Reality 25 (formulated ounces per acre)</p>	<p style="text-align: center;">6.4</p>	<p style="text-align: center;">9.6 12.8</p>
<p>Preharvest Interval (PHI): 0 Day</p>		

Corn, Sweet

Insects Controlled	Rate of Application	Method of Application
Corn Earworm Corn Rootworm Beetles* Cutworms European Corn Borer Fall Armyworm Flea Beetle Hop Vine Borer Leafhoppers Southern Armyworm Stalk Borers	6.4 to 12.8 ounces (0.1 to 0.2 pound active) per acre	Apply every 3 to 5 days or as needed to provide control. Apply with ground equipment in a minimum of 10 gallons of finished spray per acre or in a minimum of 2 gallons per acre by aircraft. *Pest does not occur on this crop in California.
Preharvest Interval (PHI): 1 Day RESTRICTIONS: Do not apply more than 0.8 pounds active ingredient per acre per season. Do not make applications less than 3 days apart.		

Corn, Sweet (Florida Only)

Insects Controlled	Rate of Application	Method of Application
Aster Leafhopper Corn Earworm Cutworm European Corn Borer Fall Armyworm Southern Armyworm	6.4 to 16.0 ounces (0.1 to 0.25 pound active) per acre	Apply every 3 to 5 days or as needed. Apply with ground equipment in a minimum of 10 gallons of finished spray per acre or in a minimum of 2 gallons per acre by aircraft.
Preharvest Interval (PHI): 0 Day RESTRICTIONS: Do not apply more than 2.0 pounds active ingredient per acre per season. Do not make applications less than 3 days apart.		

Cucurbit Vegetables Including Cantaloupe: Chayote (fruit) (*Sechium edule*); Chinese waxgourd (Chinese preserving melon) (*Bernincasa hispida*); Citron melon (*Citrullus lanatus* var. *citroides*); Cucumber (*Cucumis sativus*); Gherkin (*Cucumis anguria*); Gourd, edible (*Lagenaria* spp.) (includes hyotan, cucuzza); (*Luffa* spp.) (includes hechima, Chinese okra); (*Momordica* spp.) (includes balsam apple, balsam pear, bitter melon, Chinese cucumber); Muskmelon (hybrids and/or cultivars of *Cucumis melo*) (includes true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon); Pumpkin (*Cucurbita* spp.); Squash, summer (*Cucurbita pepo* var. *meloepo*) (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini); Squash, winter (*Cucurbita maxima*; *C. moshata*) (includes butternut squash, calabaza, hubbard squash; (*C. mixta*; *C. pepo*) includes acorn squash, spaghetti squash); Watermelon (includes hybrids and/or varieties of *Citrullus* spp.).

Insects Controlled	Rate of Application	Method of Application
Aphids Leafminers Squash Bug	12.8 ounces (0.2 pound active) per acre	Apply with ground equipment in a minimum spray volume of 20 gallons of finished spray per acre or in a minimum of 4 gallons per acre by aircraft.
Cabbage Looper Cucumber Beetle (adults) Cutworms Leafhoppers Melonworm Pickleworm Plant Bugs (including Lygus and Stink Bugs) Rindworms Squash Vine Borer	6.4 to 12.8 ounces (0.1 to 0.2 pound active) per acre	
<p>Preharvest Interval (PHI): 0 Day RESTRICTIONS: Do not apply more than 1.2 pounds active ingredient per acre per season, except cantaloupes. For cantaloupes, do not apply more than 0.8 pound active ingredient per acre per season (1.2 pound active ingredient per acre per season in Hawaii) Do not make applications less than 7 days apart. Applications may be made up to harvest.</p>		

Eggplants

Insects Controlled	Rate of Application	Method of Application
Colorado Potato Beetle	9.6 ounces (0.15 pound active) per acre	Apply with ground equipment in a minimum of 10 gallons of finished spray per acre or a minimum of 2 gallons per acre by aircraft. Apply using sufficient water to obtain uniform coverage. Apply when insects first appear and repeat at 7 day intervals as needed to provide control.
Cabbage Looper Flea Beetles Vegetable Leafminer	6.4 to 9.6 ounces (0.1 to 0.15 pound active) per acre	
<p>Preharvest Interval (PHI): 3 Days RESTRICTIONS: Do not apply more than 0.6 pounds active ingredient per acre per season (1.0 pound active ingredient per acre per season in Hawaii). Do not make applications less than 7 days apart.</p>		

Filberts

Insects Controlled	Rate of Application	Method of Application
Filbertworm Oblique Banded Leafroller	12.8 to 16.0 ounces (0.2 to 0.25 pound active) per acre	For full coverage application apply 0.05 to 0.1 pound active per 100 gallons (based on 400 gallons finished spray per acre) and spray to run-off, OR for low volume concentrate application apply 0.2 to 0.25 pound active per acre (50 to 200 gallons finished spray per acre). For aerial application apply 0.2 to 0.25 pound active in a minimum of 10 gallons of finished spray per acre. Apply when insects first appear and repeat at 10 day intervals as needed to provide control.
Preharvest Interval (PHI): 14 Days RESTRICTIONS: Do not apply more than 0.75 pounds active ingredient per acre per season. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock. Do not make applications less than 10 days apart.		

Horseradish

Insects Controlled	Rate of Application	Method of Application
Imported Crucifer Weevil (<i>Baris lepidii</i>)	9.6 ounces (0.15 pound active) per acre	For foliar application, apply with ground equipment in a minimum spray volume of 20 gallons finished spray per acre. Make up to 3 foliar applications as needed to control weevil adults during oviposition.
Preharvest Interval (PHI): 30 Days Do not apply more than 0.45 pounds active ingredient per acre per season. Do not make applications less than 10 days apart.		

Leafy Vegetables (except Brassica): Amaranth (leafy amaranth, Chinese spinach, tampala); Arugula (Roquette); Cardoon; Celery; Celery, Chinese; Celtuce; Chervil; Chrysanthemum, edible-leaved and garland; Corn salad; Cress, garden; Cress, upland (yellow rocket, winter cress); Dandelion; Dock (sorrel); Endive (escarole); Fennel, Florence (finocchio); Lettuce, head and leaf; Orach; Parsley; Purslane, garden; Purslane, winter; Radicchio (red chicory); Rhubarb; Spinach (including New Zealand and vine, Malabar spinach, Indian spinach); Swiss chard.

Insects Controlled	Rate of Application	Method of Application
Aphids Beet Armyworm Corn Earworm Cutworms European Corn Borer Fall Armyworm Green Cloverworm Leafminers Southern Armyworm Tobacco Budworm	6.4 to 12.8 ounces (0.1 to 0.2 pound active) per acre	Apply as needed by air or ground. Use sufficient water to obtain full coverage of foliage. Apply with ground equipment in a minimum of 10 gallons of finished spray per acre or in a minimum of 2 gallons per acre by aircraft.
Alfalfa Looper Cabbage Looper Leafhoppers	3.2 to 12.8 ounces (0.05 to 0.2 pound active) per acre	
<p>Preharvest Interval (PHI): 1 Day RESTRICTIONS: Do not apply more than 1.0 pounds active ingredient per acre per season (1.2 pounds active ingredient per season in Hawaii), except for lettuce and spinach. For lettuce, do not apply more than 0.8 pounds active ingredient per acre per season (1.2 pounds active ingredient per season in Hawaii) For spinach, Do not apply more than 0.6 pounds active ingredient per acre per season. Do not make applications less than 7 days apart (3 days for spinach).</p>		

Mushrooms Including: Mushroom houses and adjacent premise areas.

Insects Controlled	Rate of Application	Method of Application
Mushroom Flies (Sciarid and Phorid adults)	Apply 6 ounces to 11 gallons water or 8 level table- spoons to 3 gallons water. As a guide, use 1 gallon spray per 750 sq.ft. (400 - 1,400 sq.ft.)	Spray directly to walls and ceilings as residual surface treatment only. Spray to point of runoff. Use Reality 25 prior to filling house, during cooldown, during spawning, up to pinning and between breaks. Do not use when mushrooms are present. Treat as needed when flies appear. Do not make more than 20 applications prior to pinning of first break; apply no more than two applications between each break. Do not apply more than 30 applications total per crop of 5 breaks.

Preharvest Interval (PHI): 3 Day

Restrictions:

Use of high pressure hand wand prohibited in mushroom houses.
Do not apply directly into sewers or drains, or to any area like a gutter where drainage to storm sewers, water bodies, or aquatic habitat can occur.
Do not allow the product to enter any drain during or after application.

Onions, Bulb

Insects Controlled	Rate of Application	Method of Application
Armyworms Onion Thrips	9.6 to 19.2 ounces (0.15 to 0.3 pound active) per acre	Apply with ground equipment in a minimum of 20 gallons of finished spray per acre or in a minimum of 5 gallons per acre by aircraft. Apply when insects first appear and repeat at 7 day intervals as needed to provide control. Use the higher label rates as Onion Thrips population increases to avoid rescue situations.
Cutworms Leafminers Onion Maggots (Adults) Stink Bugs	6.4 to 19.2 ounces (0.1 to 0.3 pound active) per acre	
<p>Preharvest Interval (PHI): 1 Day RESTRICTIONS: Do not apply more than 1.0 pounds active ingredient per acre per season. Do not make applications less than 7 days apart.</p>		

Garlic

Insects Controlled	Rate of Application	Method of Application
Armyworms Onion Thrips	9.6 to 12.8 ounces (0.15 to 0.2 pound active) per acre	Apply with ground equipment in a minimum of 20 gallons of finished spray per acre or in a minimum of 5 gallons per acre by aircraft. Apply when insects first appear and repeat at 10 day intervals as needed to provide control. Use the higher label rates as Onion Thrips population increases and avoid rescue situations.
Cutworms Leafminers Onion Maggots (Adults) Stink Bugs	6.4 to 12.8 ounces (0.1 to 0.2 pound active) per acre	

Preharvest Interval (PHI): 1 Day**RESTRICTIONS:**

Do not apply more than 0.8 pounds active ingredient per acre per season.
Do not make applications less than 10 days apart.

Papaya (Florida Only)

Insects Controlled	Rate of Application	Method of Application
Aphids Brown Soft Scale Mealybug Papaya Fruit Fly Papaya Webworm Papaya Whitefly Scale Crawlers	9.6 ounces (0.15 pound active) per acre	Apply with ground equipment in 25-400 gallons of finished spray per acre. Apply when insects first appear and repeat at 10 day intervals as needed to provide control.
Preharvest Interval (PHI): 7 Day RESTRICTIONS: Do not apply more than 0.75 pounds active ingredient per acre per season. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock. Do not make applications less than 10 days apart.		

Pistachios

Insects Controlled	Rate of Application	Method of Application
Leaf-footed Bugs Navel Orangeworm Peach Twig Borer Plant Bugs Stink Bugs	12.8 to 19.2 ounces (0.2 to 0.3 pound active) per acre	Use sufficient water to obtain full coverage of foliage. Apply Reality 25 in a minimum of 10 gallons of finished spray per acre by aircraft or by ground equipment in 25-400 gallons of finished spray per acre.
Ants	19.2 ounces (0.3 pound active) per acre	Application should be after mowing of weed growth to insure maximum coverage of the soil surface. Overhead moisture after application will enhance activity.
Preharvest Interval (PHI): 0 Day RESTRICTIONS: Do not apply more than 0.9 pound active ingredient per acre per season. Do not apply after 10% hull split. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock. Do make applications less than 10 days apart.		

Peaches, Nectarines

Insects Controlled	Rate of Application	Method of Application
Green Fruitworm Lesser Peach Tree Borer Oriental Fruit Moth Peach Twig Borer Rose Chafer Plum Curculio Tarnished Plant Bug	6.4 to 16.0 ounces (0.1 to 0.25 pound active) per acre	Apply with ground equipment using 25-400 gallons of spray per acre or a minimum of 10 gallons per acre by aircraft when insects first appear and repeat at 10 day intervals as needed to provide control. Spray to wet all foliage.
Preharvest Interval (PHI): 14 Days RESTRICTIONS: Do not apply more than 0.75 pounds active ingredient per acre per season. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock. Do not make applications less than 10 days apart.		

Pears (Dormant through Delayed Dormant)

Insects Controlled	Rate of Application	Method of Application
Pear Psylla	12.8 to 25.6 ounces (0.2 to 0.4 pound active) per acre	Apply during the dormant through delayed dormant growth periods only. Apply in a minimum of 10 gallons of finished spray per acre by aircraft and 25-400 gallons per acre by ground equipment.
Preharvest Interval (PHI): 0 Day RESTRICTIONS: Do not apply more than 0.65 pound active ingredient per acre per season. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock. Do not make applications less than 10 days apart.		

Pears (Pre-Bloom)

Insects Controlled	Rate of Application	Method of Application
Codling Moth Green Fruitworm Pear Psylla	12.8 to 16.0 ounces (0.2 to 0.25 pound active) per acre	Apply with ground equipment using 25-400 gallons of finished spray per acre or a minimum of 10 gallons per acre by aircraft. Pre-bloom sprays can be applied from dormant through bud burst stages when insects first appear.
Preharvest Interval (PHI): 0 Day RESTRICTIONS: Do not apply more than 0.65 pound active ingredient per acre per season. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock. Do not make applications less than 10 days apart.		

Peppers, Bell

Insects Controlled	Rate of Application	Method of Application
Cabbage Looper Corn Earworm Cutworms Flea Beetle Pepper Weevil Vegetable Leafminer	6.4 to 12.8 ounces (0.1 to 0.2 pound active) per acre	Apply using sufficient water to obtain uniform coverage. Apply when insects first appear and repeat at 5 day intervals as needed to provide control. Apply with ground equipment using a minimum of 10 gallons of finished spray per acre or a minimum of 2 gallons per acre by aircraft.
European Corn Borer	12.8 ounces (0.2 pound active) per acre	
Preharvest Interval (PHI): 3 Days RESTRICTIONS: Do not apply more than 0.8 pounds active ingredient per acre per season. Do not make applications less than 5 days apart.		

Potatoes

Insects Controlled	Rate of Application	Method of Application
Aster Leafhopper Beet Armyworm Cabbage Looper Colorado Potato Beetle Cutworms European Corn Borer Potato Aphid Potato Flea Beetle Potato Leafhopper Potato Psyllid Potato Tuberworm Tarnished Plant Bug	6.4 to 12.8 ounces (0.1 to 0.2 pound active) per acre	Apply with ground equipment in a minimum of 10 gallons of finished spray per acre or in a minimum of 2 gallons per acre by aircraft. Use sufficient spray volume to obtain full coverage. Apply when insects first appear and repeat at 10 day intervals as needed to provide control.
Preharvest Interval (PHI): 14 Days RESTRICTIONS: Do not apply more than 0.8 pounds active ingredient per acre per season. Do not make applications less than 10 days apart.		

Soybeans

Insects Controlled	Rate of Application	Method of Application
Bean Leaf Beetle Cabbage Looper Corn Rootworm Beetles Cutworms Flea Beetles Green Cloverworm Japanese Beetle Mexican Bean Beetle Potato Leafhopper Saltmarsh Caterpillar (Woollybear Caterpillar)	3.2 to 6.4 ounces (0.05 to 0.1 pound active) per acre	Apply with ground equipment in a minimum of 10 gallons of finished spray per acre or in a minimum of 2 gallons per acre by aircraft.
Beet Armyworm Corn Earworm Soybean Looper Webworms	6.4 to 12.8 ounces (0.1 to 0.2 pound active) per acre	
Preharvest Interval (PHI): 60 Days RESTRICTIONS: Do not apply more than 0.4 pound active ingredient per acre per season. Do not make applications less than 10 days apart. Do not graze or feed soybean forage or hay.		

Tomatoes, Tomatillos

Insects Controlled	Rate of Application	Method of Application
Beet Armyworm Cabbage Looper Colorado Potato Beetle Granulate Cutworm Hornworms Southern Armyworm Tomato Fruitworm Tomato Pinworm Vegetable Leafminers	3.2 to 12.8 ounces (0.05 to 0.2 pound active) per acre	Apply with ground equipment in a minimum of 10 gallons finished spray per acre or in a minimum of 2 gallons per acre by aircraft.
<p>Preharvest Interval (PHI): 0 Day RESTRICTIONS: Do not apply more than 0.6 pounds active ingredient per acre per season (0.8 pounds active ingredient per acre per season in Hawaii). Do not apply to cherry tomatoes or other varieties which produce fruit less than one inch in diameter. Do not make applications less than 7 days apart.</p>		

Walnuts

Insects Controlled	Rate of Application	Method of Application
Codling Moth Navel Orangeworm Walnut Husk Fly	12.8 to 16.0 ounces (0.2 to 0.25 pound active) per acre	For full coverage application apply 0.05 to 0.1 pound active per 100 gallons (based on 400 gallons finished spray per acre), spray to run-off; OR, for low volume application apply 0.2 to 0.25 pound active per acre (25-200 gallons finished spray per acre). For aerial application apply 0.2 to 0.25 pound active in a minimum of 10 gallons of finished spray per acre. Apply when insects first appear and repeat at 10 day intervals as needed to provide control.
<p>Preharvest Interval (PHI): 1 Day RESTRICTIONS: Do not apply more than 0.75 pounds active ingredient per acre per season. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock. Do not make applications less than 10 days apart.</p>		

Agricultural Premise Application (For Agricultural Use Only)

Spray directly to walls and ceiling as residual surface treatment only. Do not treat manure or litter. Avoid contamination of feed and water. Do not apply directly to livestock or poultry.

Application	Target Insects	Method of Application	Dilute	Application Rate
Dairies, Barns, Feedlots, Stables, Poultry Houses, Swine and Livestock Houses	House Flies, Stable Flies and other Manure Breeding Flies. Also aids in the reduction of Cockroaches, Mosquitoes and Spiders.	Hand or Power Sprayer	6 ounces* to 11 gallons water	1 gallon per 750 square feet of surface
<p>Application: Re-treat as necessary, but not more often than once every 2 weeks. The use of any residual fly spray should be supplemental with proper manure management and general sanitation to reduce or eliminate fly breeding site.</p>				
<p>Restrictions: Do not apply directly into sewers or drains, or to any area like a gutter where drainage to storm sewers, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.</p>				

*6 ounces of this powder equals 0.1 lb Active Ingredient (See Application Rate Calculations under Mixing Instruction Section of this label).

Greenhouse and Nursery Applications

Ornamental Nursery Stock (Field Grown: Including, Lath and Shade House Grown Shrubs, Plants, Flowers and Non-bearing Fruit and Nut Trees).

Insects Controlled*	Rate of Application	Method of Application
<p>Aphids Armyworm Bagworm Brown Soft Scale Cabbage Looper Citrus Thrips Cucumber Beetle Cutworms Elm Leaf Beetle Fall Webworm Flea Beetle Fungus Gnats <i>Heliothis</i> spp. Japanese Beetle Lacebug Leaf Feeding Caterpillars Leafhoppers Leafminers Leafrollers Lepidoptera Loopers Plant Bugs, including Lygus Spp) Squash Bugs Weevils Whiteflies Thrips</p> <p style="text-align: center;">*For additional insects controlled See <i>AGRICULTURAL FIELD APPLICATIONS</i> under the <i>Directions for Use</i> Section of this label.</p>	<p>6.4 to 12.8 ounces (0.1 to 0.2 pound active) per 100 gal- lons of water</p>	<p>Reality 25 may be used to control specified pests on non-edible ornamentals and non-bearing plants of fruiting species.</p> <p>Caution: Reality 25 has demonstrated excellent plant safety; however, not all species and varieties have been tested. Before treating large numbers of plants of a particular variety, treat a few plants and observe prior to full scale application.</p> <p>Use of an alternate class of chemistry in a treatment program is recommended to prevent or delay pest resistance.</p>
<p>Preharvest Interval (PHI): 0 Day</p>		

Chrysanthemums (Container and Field Grown)

Insects Controlled	Rate of Application	Method of Application
Liriomyza Leafminer Flies	32 ounces (0.5 pound active) per 100 gallons	Avoid spraying the blooms. Reality 25 may be applied on a weekly schedule. Caution: Cultivars may vary in sensitivity and a small number of plants should be treated to determine plant safety prior to commercial use.
Preharvest Interval (PHI): 0 Day		

Conifers (Container and Field Grown)

Insects Controlled	Rate of Application	Method of Application
Nantucket Pine Tip Moth	6.4 to 12.8 ounces (0.1 to 0.2 pound active) per acre	Begin application when the adults appear and repeat at 5 to 7 day intervals or as needed throughout the season.
Preharvest Interval (PHI): 0 Day		

Pine Seed Orchards

Insects Controlled	Rate of Application	Method of Application
Coneworms Seed Bugs	12.8 ounces (0.2 pound active) in 100 gallons of water (0.025% dilution by weight)	For high volume sprayers, apply 5 to 10 gallons of finished spray per tree.
	66 ounces (1.6 pounds active) in 100 gallons of water (0.125% dilution by weight)	For low volume sprayers, apply 100 gallons per acre.
	48 ounces (1.2 pounds active) per acre	For aerial application, use in not less than 10 gallons of water.
<p>Preharvest Interval (PHI): 0 Day</p> <p>Application: To control Webbing Coneworm—make first application within 1 week of female flower closure or peak pollen flight. To control other coneworms and seed bugs—make first application within 30 days following female flower closure. Repeat applications at 4 week intervals, but do not apply more than 6 applications.</p> <p>RESTRICTIONS: Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock. Harvesting of conifer seed cones is prohibited within 30 days of application.</p>		

Roses (Field and Greenhouse)

Insects Controlled	Rate of Application	Method of Application
Field Grown		
<i>Heliothis</i> spp.	6.4 to 12.8 ounces (1.0 to 0.2 pound active) per acre	Apply with ground equipment in a minimum of 10 gallons of finished spray per acre or in a minimum of 2 gallons of finished spray per acre by aircraft. Caution: Varieties may vary in their sensitivity to Reality 25, and a small number of plants should be treated under local conditions to determine plant safety prior to commercial use.
Greenhouse Grown		
Beet Armyworm Cabbage Looper Omnivorous Leafroller	12.8 ounces (0.2 pound active) per 100 gallons of water	Caution: Varieties may vary in their sensitivity to Reality 25, and a small number of plants should be treated under local conditions to determine plant safety prior to commercial use.

Range Grass Applications

Range Grass (New Mexico Only)

Insects Controlled	Rate of Application	Method of Application
Range Caterpillar	0.64 ounces (0.01 pound active) per acre	Apply using sufficient spray volume to obtain uniform coverage. Apply with ground equipment in a minimum of 10 gallons of finished spray per acre or in a minimum of 2 gallons per acre by aircraft.
Do not apply more than once per year. Cattle may be present during application. Do not harvest or feed hay to livestock.		

Seed Treatment

(For use Only by Commercial Seed Treaters)

Application Directions

This product is to be used in applications for seed treatment with liquid or slurry type products only. Mix thoroughly before use. All tank mixes should be pretested to determine physical compatibility between product formulations.

Treated seed must not be used for or mixed with food or animal feed, or processed for oil. Seed commercially treated with Reality 25 Insecticide must be labeled in accordance with all applicable requirements of the Federal Seed Act. 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 21CFR, Part 2.25. Dye added to treated seed must be cleared for use under 40CFR, part 180.1001.

Reality 25 Insecticide will protect germinating seed from soil insects: e.g. wireworms, seed corn maggots, fire ants, and false wireworms. This product exhibits only contact activity and offers no systemic control of insects. Activity is by the contact and ingestion routes generally associated with pyrethroids. Protection from storage insects, e.g. weevils, moths, and beetles has also been demonstrated with this product.

Rotational Crops

With the exception of crops listed below, rotational crops should not be planted within 60 days of last application: corn, sweet; soybeans; curcubit vegetables; tomatoes; peppers, bell; eggplant; leafy vegetables (except Brassica); broccoli; Brussels sprouts; cabbage; celery; cauliflower; alfalfa; almonds; apples; artichokes; asparagus; avocados; garlic and onions (dry bulb); horseradish; potatoes; collards and turnips; cherries; filberts; pistachios; walnuts; papaya; peaches; nectarines; and pears.

SEED TYPES	Formulated Dosage Rate Oz/100 lbs of Seed
Corn (Field, Sweet and Popcorn) Soybeans Curcubits, Including cucumber, gourds, gherkins, melons (cantaloupe, casaba, honeydew, etc.), pumpkins, winter and summer squash, and watermelon). Tomatoes Peppers, bell Eggplant Leafy vegetables (except Brassica) Broccoli Brussels sprouts Cabbage Celery Cauliflower	1.5 – 2.0*
* 0.375 – 0.50 oz. Active ingredient per 100 pounds of seed.	

Use Rate Conversion Chart

Pounds Active per Acre	Ounces Reality 25 per Acre	Pounds Reality 25 per Acre
0.05	3.2	0.2
0.10	6.4	0.4
0.125	8.0	0.5
0.15	9.6	0.6
0.175	11.2	0.7
0.20	12.8	0.8
0.40	25.6	1.6

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Gharda Generics, Inc. or Seller. To the extent consistent with applicable law such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Gharda Generics, Inc. and Seller harmless for any claims relating to such factors.

Gharda Generics, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or Gharda Generics, Inc., and Buyer and User assume the risk of any such use. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW GHARDA GENERICS, INC. MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.**

To the extent consistent with applicable law Gharda Generics, Inc. or Seller not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF GHARDA GENERICS, INC. AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ROTAM AGROCHEMICAL COMPANY LIMITED OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

Gharda Generics, Inc. and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of Gharda Generics, Inc.

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[Back Booklet Container label/remains on container when booklet is removed]

RESTRICTED USE PESTICIDE

Toxic to fish and aquatic organisms

For retail sale to and use only by certified applicators, or persons under their direct supervision and only for those uses covered by the certified applicator's certification.

REALITY[®] 25

Insecticide in Water Soluble Packets

Active Ingredients	By Wt.
*Permethrin**	25.0%
Inert Ingredients:	<u>75.0%</u>
	100.0%

*(3-Phenoxyphenyl)methyl (±) cis-trans 3-(2,2-dichloroethenyl)-2, 2-dimethylcyclopropanecarboxylate

**cis/trans ratio: Max. 55% (±) cis and min. 45% (±) trans

Keep water soluble packets in this container and store in a cool dry place but not below freezing (32°F). Do not remove packets from container except for immediate use.

(First letters in Batch Code Indicate Producing establishment)

EPA Reg. No. 84836-RA

EPA Est. No.: 5905-GA-01 = CG
5905-IA-01 = DI

KEEP OUT OF REACH OF CHILDREN CAUTION/CUIDADO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

PRECAUTIONARY STATEMENTS

Hazards to Humans (& Domestic Animals)

CAUTION: Harmful if swallowed. Causes moderate eye irritation. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Avoid contact with eyes or clothing. Wear: Long-sleeved shirt and long pants, socks, shoes, and gloves.

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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.

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.

HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact **PROSAR 1- 866-359-5660** for emergency medical treatment.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish and aquatic invertebrates. For terrestrial uses, 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 apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. 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 if bees are visiting the treatment area.

AGRICULTURAL USE REQUIREMENTS

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

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

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

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

Pesticide Storage: Store in original container and out of the reach of children, in a secured cool dry storage area as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Do not store at temperatures below 32°F (0°C).

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): Do not reuse or refill this container. Dispose of empty container in a sanitary landfill, by incineration or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

**FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident,
call CHEMTREC AT 1-800-424-9300**

See inside booklet for Directions for Use and additional Precautionary Statements.

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GHARDA GENERICS, INC.
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(215) 298-9474

NET CONTENTS
1 x 2.0 lb
Water Soluble Packet