



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

EPA Reg. Number:

105526-15

Date of Issuance:

2/25/26

NOTICE OF PESTICIDE:

Registration
 Reregistration
 (under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

AG-PERU-9004

Name and Address of Registrant (include ZIP Code):

AGROVIA LLC
 15401 Weston Parkway
 Suite 170
 Cary, NC 27513

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

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

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

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

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

Continues page 2

Signature of Approving Official:

Elizabeth Fertich, Product Manager 04
 Invertebrate & Vertebrate Branch 1
 Registration Division (7505T)

Date:

2/25/26

2. You are required to comply with the data requirements described in the generic data call-in (GDCI) identified below:

- a. Permethrin GDCI-109701-1113

You must comply with all of the data requirements within the established deadlines. If you have questions about the GDCI listed above, you may contact the Chemical Review Manager in the Pesticide Re-Evaluation Division: <http://iaspub.epa.gov/apex/pesticides/f?p=chemicalsearch:1>

3. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, "EPA Reg. No. 105526-15."
4. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance. If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

The record for this product currently contains the following CSF(s):

- Basic CSF dated 11/10/2025

If you have any questions, please contact Kaitlin Saunders at 202-566-2890 or at Saunders.Kaitlin@epa.gov.

Enclosure

**RESTRICTED USE PESTICIDE
Due to Toxicity 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

Permethrin GROUP 3A INSECTICIDE

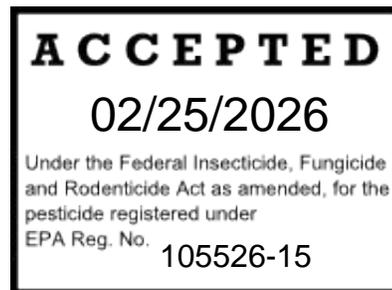
AG-PERU-9004

Active Ingredient	
Permethrin*	36.8%
Other Ingredients**	63.2%
TOTAL	100.0%

*cis/trans ratio: Max. 42% (±) cis and min. 58% (±) trans

** Contains petroleum distillates.

Contains 3.2 pounds permethrin per gallon as an emulsifiable concentrate.



KEEP OUT OF REACH OF CHILDREN

CAUTION

[Optional Booklet Reference Statements:

Outer container/box/carton: See containers inside for [First Aid,] additional Precautionary Statements and complete Directions For Use.

Outside of booklet: See inside for [First Aid,] additional Precautionary Statements and complete Directions For Use.

Base label of booklet securely attached to container: See attached booklet for [First Aid,] additional Precautionary Statements and complete Directions For Use. PEEL DOWN FOR DIRECTIONS]

FIRST AID	
IF SWALLOWED	<ul style="list-style-type: none"> • Immediately call a poison control center or doctor. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give any liquid to the person. • Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
IF IN EYES	<ul style="list-style-type: none"> • 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.
IF INHALED	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth to mouth if possible. • Call a poison control center or doctor for further treatment advice.
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency medical assistance call the Rocky Mountain Poison and Drug Safety at 1-866-673-6671. FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300</p>	
<p>NOTE TO PHYSICIAN: Contains petroleum distillates – vomiting may cause aspiration pneumonia</p>	

Net Contents: 1 gallon, 30 gallons, 55 gallons

AGROVIA LLC
15401 Weston Parkway, Suite 170
Cary, NC 27513

EPA Reg. No. 105526-XX
EPA Est. No.

PRECAUTIONARY STATEMENTS
Hazards to Humans & Domestic Animals
CAUTION

Harmful if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing.

Personal Protection Equipment (PPE)

Applicators using ULV cold foggers or fog/mist generators in indoor spaces must wear:

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate, Neoprene rubber ≥14 mils, nitrile rubber ≥14 mils, and Viton ≥14 mils.
- Chemical-resistant footwear plus socks, and
- Chemical-resistant headgear, if overhead exposure.

Applicators using ULV cold foggers and/or fog/mist generators in outdoor spaces must wear:

- Long-sleeve shirt and long pants,
- Shoes plus socks, and
- Chemical-resistant gloves, such as barrier laminate, Neoprene rubber ≥14 mils, nitrile rubber ≥14 mils, and Viton ≥14 mils.

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

- Long-sleeve shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves, such as barrier laminate, Neoprene rubber ≥14 mils, nitrile rubber ≥14 mils, and Viton ≥14 mils, 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 and for handlers performing animal dip applications

See engineering controls for additional requirements.

Engineering Controls

Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard 9WPS) for agricultural pesticides [40 CFR 170.240(d)(6)].

User Safety Requirements

Follow manufacturer's instruction for cleaning/maintaining PPE. If no such instructions are available for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched (except as required by directions for use) or heavily contaminated with this product's concentrate. Do not reuse them.

User Safety Recommendations:

Users should:

- Remove PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- 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 extremely toxic to fish and 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 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 by cleaning of equipment or disposal of equipment washwaters.

Under some conditions, it may also have the 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 overlying tile drainage systems that drain to surface waters.

This product is highly toxic to bees and other pollinating insects exposed to direct treatment on blooming crops or weeds. Do not apply this pesticide to or allow it to drift to blooming crops or weeds while bees or other pollinating insects are actively foraging the treatment area. **Protect pollinating insects by following label directions intended to minimize drift and to reduce risk to these organisms.**

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.

Physical/Chemical Hazards

Combustible. Do not use or store near heat or open flame.

DIRECTIONS FOR USE

RESTRICTED USE PESTICIDE

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

Resistance:

For resistance management, AG-PERU-9004 contains a Group 3A insecticide. Any insect population may contain individuals naturally resistant to AG-PERU-9004 and other Group 3A insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance, take the following steps:

- Rotate the use of AG-PERU-9004 or other Group 3A insecticides within a growing season, or among growing seasons, with different groups that control the same pests.
- Use tank mixtures with insecticides/acaricides from a different group that are equally effective on the target pest when such use is permitted. Do not rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues (for the targeted pests) between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):
 - o Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
 - o Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
 - o When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
 - o Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
 - o The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticide use that includes scouting, uses historical information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact AGROVIA LLC at 1-800-438-6071.

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 on this product that are covered by Worker Protection Standard.

Do not enter or allow worker entry to 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, such as barrier laminate, Neoprene rubber ≥14 mils, nitrile rubber ≥14 mils, and Viton ≥14 mils.
- Shoes plus socks.

PROHIBITION: harvesting of conifer seed cones is prohibited within 30 days of application.

VEGETATIVE FILTER STRIPS

Construct and maintain a vegetative filter strip, according to the width specified below, of grass or other permanent vegetation between the field edge and nearby down gradient aquatic habitat (such as, but not limited to, lakes; reservoirs; rivers; streams; marshes or natural ponds; estuaries; and commercial fish farm ponds).

Only apply products containing permethrin onto fields where a maintained vegetative filter strip of at least 25 feet exists between the field edge and where a down gradient aquatic habitat exists. This minimum required width of 25 feet may be reduced or removed under the following conditions:

- For Western irrigated agriculture, a maintained vegetative filter strip of at least 10 feet wide is required. Western irrigated agriculture is defined as irrigated farmland in the following states: WA, OR, CA, ID, NV, UT, AZ, MT, WY, CO, NM, and TX (west of I-35).
 - For Western irrigated agriculture, if a sediment control basin is present, a vegetative filter strip is not required.
- In all other areas, a vegetative filter strip with a minimum width of 25 feet is required, unless the following conditions are met. The vegetative filter strip requirement may be reduced from 25 feet to 15 feet if at least one of the following applies:
 - The area of application is considered prime farmland (as defined in 7 CFR § 657.5).
 - Conservation tillage is being implemented on the area of application. Conservation tillage is defined as any system that leaves at least 30% of the soil surface covered by residue after planting. Conservation tillage practices can include mulch-till, no-till, or strip-till.
 - A functional terrace system is maintained on the area of application.
 - Water and sediment control basins for the area of application are functional and maintained.
 - The area of application is less than or equal to 10 acres.

For further guidance on vegetated filter strips, refer to the following publication for information on constructing and maintaining effective buffers: Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. <https://www.regulations.gov/document?D=EPA-HQ-OPP-2008-0331-0175>

BUFFER ZONES

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).

Mandatory Spray Drift Management

Aerial Applications:

- Do not release spray at a height greater than 10 feet above the vegetative canopy, unless a greater application height is necessary for pilot safety.
- Applicators are required to select nozzle and pressure that deliver medium or coarser droplets (ASABE S641).
- Do not apply when wind speeds exceed 15 mph at the application site. If the wind speed is greater than 10 mph, the boom length must be 65% or less of the wingspan for fixed wing aircraft and 75% or less of the rotor diameter for helicopters. Otherwise, the boom length must be 75% or less of the wingspan for fixedwing aircraft and 90% or less of the rotor diameter for helicopters.
- If the windspeed is 10 miles per hour or less, applicators must use ½ swath displacement upwind at the downwind edge of the field. When the windspeed is between 11-15 miles per hour, applicators must use ¾ swath displacement upwind at the downwind edge of the field.
- Do not apply during temperature inversions.

Airblast Applications:

- Sprays must be directed into the canopy.
- Do not apply when wind speeds exceed 15 mph at the application site.
- User must turn off outward pointing nozzles at row ends and when spraying outer row.
- Do not apply during temperature inversions.

Ground Boom Applications:

- User must only apply with the nozzle height recommended by the manufacturer, but no more than 4 feet above the ground or crop canopy.
- Applicators are required to select nozzle and pressure that deliver medium or coarser droplets (ASABE S572).
- Do not apply when wind speeds exceed 15 mph at the application site.
- Do not apply during temperature inversions.

Spray Drift Advisories

**THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.
BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.**

IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

Controlling Droplet Size – Ground Boom

- Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

Controlling Droplet Size – Aircraft

- Adjust Nozzles - Follow nozzle manufacturers recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

BOOM HEIGHT – Ground Boom

- For ground equipment, the boom should remain level with the crop and have minimal bounce.

RELEASE HEIGHT - Aircraft

- Higher release heights increase the potential for spray drift.

SHIELDED SPRAYERS

- Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

TEMPERATURE AND HUMIDITY

- When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

- Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. 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 air mixing. Avoid applications during temperature inversions.

WIND

- Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.
- Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

NON-TARGET ORGANISM ADVISORY STATEMENT (Environmental Hazards):

- This product is highly toxic to bees and other pollinating insects exposed to direct treatment or to residues in/on blooming crops or weeds. Protect pollinating insects by following label directions intended to minimize drift and reduce pesticide risk to these organisms.

Following best management practices can help reduce risk to terrestrial pollinators. Examples of best management practices include applying pesticides in the evening and at night when pollinators are not foraging and checking to confirm hive locations before spraying. For additional resources on pollinator best management practices, visit <https://www.epa.gov/pollinator-protection/find-best-management-practices-protect-pollinators>.

Managed pollinator protection plans are developed by states/tribes to promote communication between growers, landowners, farmers, beekeepers, pesticide users, and other pest management professionals to reduce exposure of bees to pesticides. If available, visit state plans for additional information on how to protect pollinators.

How to Report Bee Kills

It is recommended that users contact both the state lead agency and the U.S. Environmental Protection Agency to report bee kills due to pesticide application. Bee kills can be reported to EPA at beekill@epa.gov. To contact your state lead agency, see the current listing of state pesticide regulatory agencies at the National Pesticide Information Center's website: http://npic.orst.edu/reg/state_agencies.html.

Chemigation

Apply this product only through the following types of sprinkler irrigation: 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 non-uniform distribution of treated water. For questions concerning calibration consult the equipment manufacturer or your local State Extension Service representative. A person knowledgeable of the chemigation system and responsible for its operation, or person under the supervision of the person responsible, 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 appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

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.

Apply AG-PERU-9004 continuously for the duration of the water application. Dilute AG-PERU-9004 in sufficient volume to ensure accurate application of the area to be treated. When using chemigation, a minimum of 0.1 inch per acre of irrigation water is recommended. Agitation generally is not required when a suitable diluent is used. Conduct a diluent test to ensure that phase separation will not occur during dilution and application. Failure to achieve a uniform dilution throughout the time of application may result in undesirable residues or less than desirable control.

Commercial Impregnation and Application on Dry Bulk Fertilizers

AG-PERU-9004 may be impregnated on dry bulk fertilizers. When applied as directed, AG-PERU-9004/dry bulk fertilizer mixtures provide insect control equal to that provided by the same rates of AG-PERU-9004 applied in water.

The AG-PERU-9004/fertilizer mixtures may be surface applied or shallow incorporated. The higher labeled rate should be used if incorporation is used.

Impregnation: Apply using a minimum of 200 pounds of dry bulk fertilizer per acre and up to a maximum of 450 pounds per acre with the recommended amount of AG-PERU-9004 per acre. Use a closed rotary-drum mixer or a similar type of closed blender equipped with suitable spray equipment. The spray nozzle(s) should be in a position to provide a uniform, fine spray pattern over the tumbling fertilizer for thorough coverage. The physical properties of fertilizers vary particularly in liquid absorption capacity. When absorptivity is sufficient, simply spray impregnation of the fertilizer with AG-PERU-9004 provides a satisfactory, dry mixture. If the absorptive capacity is inadequate, the use of a highly absorptive powder is required to provide a dry, flowable mixture. Microcel E (Johnson Manville Product Corporation) is a recommended absorbent powder. Generally less than 2% by weight of Microcel E is required. DO NOT impregnate AG-PERU-9004 onto straight coated ammonium nitrate or straight limestone because these materials will not absorb the insecticide. Dry fertilizer blends containing mixtures of ammonium nitrate or limestone may be impregnated with AG-PERU-9004.

The amount of AG-PERU-9004 actually required in the preparation of individual fertilizer mixtures should be determined carefully for each production operation. This is necessary to ensure that the amount of pesticide actually contained in the mixture applied to the soil represents the correct rate of use. Apply bulk fertilizer impregnated with AG-PERU-9004 immediately, not stored.

All individual state regulations relating to bulk dry fertilizer blending, registration, labeling and application of the mixtures are the responsibility of the individual and/or company selling the fertilizer and AG-PERU-9004 mixture.

USE RESTRICTIONS

Do not apply this product that will contact workers or other persons either directly or through drift. Only protected handlers may be in the area during application.

Use of high pressure hand wand prohibited in mushroom houses.

When used in dairy barns or facilities: Close milk bulk tank lids to prevent contamination from spray and from dead or falling insects. Remove or cover milking utensils before application. Wash teats of animals before milking.

Not for use in outdoor residential misting systems.

Unless otherwise directed by registered supplemental labeling, follow the Directions for Use in each crop group section.

PRODUCT USE INFORMATION

Important:

AG-PERU-9004 is toxic to fish and aquatic organisms. Exercise care when making applications near ponds, lakes, streams, reservoirs and other aquatic environments where fish and aquatic organisms are present.

For advice concerning current control practices with relation to specific local conditions, consult your local State Cooperative Extension or regulatory agencies.

AG-PERU-9004 is formulated as an emulsifiable concentrate (EC) formulation and is to be diluted and applied as an emulsion. When tank mixing as an emulsion with other products, observe all precautions and limitations on the labels of each product in the mixture.

AG-PERU-9004 can be tank-mixed with natural pyrethrin-containing products or Insect Growth Regulators (IGRs). Do not tank mix with dichlorvos (DDVP) or other fumigant products.

AG-PERU-9004 is a 3.2 pounds per gallon formulation of the insecticide permethrin. Apply AG-PERU-9004 when insects appear or feeding is noticed. The higher labeled rate should be used as pest populations increase. Repeat the application as necessary to maintain control. Use sufficient water to obtain full coverage. With the exception of crops listed below, rotational crops should not be planted within 60 days of last application.

This label must be in the possession of the user at the time of application.

RATE CONVERSION CHART

POUNDS ACTIVE PER ACRE	FORMULATION OUNCES PER ACRE
0.05	2.0
0.10	4.0
0.15	6.0
0.20	8.0
0.25	10.0
0.30	12.0

Index to Crops Listed on this Label

Vegetable Crops:

- Artichoke
- Asparagus
- Avocado
- Cole Crops (Brassica Leafy Vegetables)
- Collards and Turnips
- Corn, Sweet
- Corn, Sweet (Florida only)
- Cucurbit Vegetables
- Eggplant
- Horseradish
- Leafy Vegetables (except Brassica)
- Onions, Bulb and Garlic
- Peppers, Bell
- Potatoes
- Tomatoes, Tomatillos

Tree Fruit and Nuts

- Almonds
- Apples
- Cherries
- Filberts
- Papaya (Florida Only)
- Peaches and Nectarines
- Pistachios
- Pears
- Walnuts

Other Crops

- Alfalfa

- Corn (Field), Field Corn Grown for Seed, Popcorn
 - Pre-emergent Use
 - Foliar Use
- Corn (Field), Field Corn Grown for Seed, Popcorn
 - At Plant Use
- Mushrooms
- Range Grass (New Mexico Only)
- Soybeans
- Ornamentals
 - Chrysanthemum
 - Conifers (Container and Field Grown)
 - Ornamental Nursery Stock (Field Grown)
 - Pine Seed Orchards
 - Roses (Field Grown)
 - Roses (Greenhouse)
- Lawn and Ornamental Uses
- Other Uses
 - Premises Spray
 - Treatment of Preconstruction Lumber and Logs

VEGETABLE CROPS

ARTICHOKE		
TARGET PESTS	RATE FL OZ/A (LBS AI/A)	REMARKS
Artichoke plume moth Leafminers	4 – 12 (0.1 – 0.3)	Do not apply more than 5 applications or 36 oz. product (0.9 lbs. a.i.) per acre per year.
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. • Do not apply at intervals less than 10 days. • Applications may be made up to harvest. 		

ASPARAGUS		
TARGET PESTS	RATE FL OZ/A (LBS AI/A)	REMARKS
Asparagus beetle Cutworms	2 – 4 (0.05 – 0.1)	Do not apply more than 16 oz. product (0.4 lbs. a.i.) per acre per year.
Asparagus beetle Japanese beetle (Adult stage)* Lygus bugs Tarnished plant bug	4 (0.1)	Post harvest application only. Apply to the fern stage of the asparagus plant after spear harvest when larval and adult stages are present. *Not for control of this insect in California
<ul style="list-style-type: none"> • Apply by ground in a minimum of 10 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. • Do not apply at intervals less than 7 days. • Do not apply within 1 day of harvest. 		

AVOCADO		
TARGET PESTS	RATE FL OZ/A (LBS AI/A)	REMARKS
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	8 (0.2)	Do not apply more than 32 oz. product (0.8 lbs. a.i.) per acre per year. Apply when insects first appear and repeat at 7 to 10 day intervals as needed to provide control.
<ul style="list-style-type: none"> • Apply by ground equipment in 25-400 gallons of finished spray per acre. • Do not graze livestock in treated areas. • Do not feed cover crops from treated areas to livestock. • Do not apply at intervals less than 7 days. • Do not apply within 7 days of harvest. 		

COLE CROPS – Brassica Leafy Vegetables

CROP	TARGET PESTS	RATE FL OZ/A (LBS A/A)	REMARKS
Broccoli	Cabbage looper Armyworm spp. Imported cabbageworm Diamondback moth Plant bugs Thrips Cabbage aphid*	2-8(0.05 –0.2)	Apply every 5 days as needed. Maximum rate is 8 oz. product (0.2 lbs. a.i.)/A. Do not apply more than 0.8 lbs. a.i. per acre per year.
Chinese Broccoli (gai lon, white flowering broccoli), Brussels Sprouts; Cauliflower;	Cabbage looper Armyworm spp. Imported cabbageworm Diamondback moth Plant bugs Thrips Cabbage aphid*	2 – 4 (0.05 – 0.1)	Apply every 5 days as needed. Do not apply more than 0.4 lbs a.i. per acre per year for Brussels sprouts and cauliflower.
Cabbage, Chinese Cabbage (napa, tight-headed varieties only)	Cabbage looper Imported cabbageworm Diamondback moth Southern white butterfly Cabbage aphid*	2 – 8 (0.05 – 0.2)	Apply every 5 – 10 days or as needed. Do not apply more than 16 oz. product (0.4 lbs. a.i.) per acre per year (32 oz. product/0.8 lbs. a.i. in Hawaii).
	Armyworm spp. Cutworms Flea beetles	4 – 8 (0.1 – 0.2)	
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. • Do not apply at intervals less than 5 days. • Do not apply within 1 day of harvest. <p>* Aids in the suppression only</p>			

COLLARDS and TURNIPS

CROP	TARGET PESTS	RATE FL OZ/A (LBS A/A)	REMARKS
Collards (AR, AZ, GA, IL, NC, OK, SC, and TX only)	Beet armyworm Cabbage looper Corn earworm Cutworms Diamond back moth European corn borer Fall armyworm Green cloverworm Imported cabbageworm Leafhoppers Leafminer Southern armyworm Southern white butterfly Tobacco budworm Vegetable leafminer Aphids*	2 – 6 (0.05 – 0.15)	Apply with ground equipment only. Apply as needed. Do not exceed 8 applications. AR, TX: Do not apply more than 18 oz. product (0.45 lbs. a.i.) per acre per year.
Turnips (FL, GA, IL, IN, OK, SC, TX, and WA only)	Beet armyworm Cabbage looper Corn earworm Cutworms Diamond back moth European corn borer Fall armyworm Green cloverworm Imported cabbageworm Leafhoppers Leafminer Southern armyworm Southern white butterfly Tobacco budworm Vegetable leafminer Aphids*	2 – 6 (0.05 – 0.15)	Apply with ground equipment only. Apply as needed. Do not exceed 8 applications. Do not graze treated areas or feed crop refuse to livestock. TX, IN: Do not apply more than 18 oz. product (0.45 lbs. a.i.) per acre per year. SC, GA, FL, WA: Do not apply more than 18 oz. product (0.45 lbs. a.i.) per acre per year.
<ul style="list-style-type: none"> • Apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. • Do not apply at intervals less than 3 days. • Do not apply within 1 day of harvest. <p>* Aids in the suppression only</p>			

CORN, SWEET		
TARGET PESTS	RATE FL OZ/A (LBS A/A)	REMARKS
Aster leafhopper Corn earworm Corn rootworm beetles* Cutworms European corn borer Fall armyworm Flea beetle Hop vine borer Leafhoppers Southern armyworm Stalk borers	4 – 8 (0.1 – 0.2)	Do not apply more than 32 oz. product (0.8 lbs. a.i.) per acre per year. Apply every 3 to 5 days or as needed. *Pest does not occur on this crop in California
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. • Do not apply at intervals less than 3 days. • Do not apply within 1 day of harvest. 		

CUCURBIT VEGETABLES*		
TARGET PESTS	RATE FL OZ/A (LBS A/A)	REMARKS
Aphids Leafminers Squash bugs	8 (0.2)	For Cantaloupe, do not apply more than 32 oz. product (0.8 lbs a.i.) per acre per year (48 oz. product/1.2 lbs. a.i. in Hawaii).
Cabbage looper Cucumber beetle (adult) Cutworms Leafhoppers Melonworm Pickleworm Plant bugs (including Lygus and Stink bugs) Rindworms Squash vine borer	4 – 8 (0.1 – 0.2)	For all others, do not apply more than 48 oz. product (1.2 lbs. a.i.) per acre per year.
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 4 gallons of water per acre. By ground, apply in a minimum of 20 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. • Do not apply at intervals less than 7 days. • Applications may be made up to harvest. 		
<p>* Cucurbit vegetables include: Chayote (fruit), Chinese waxgourd (Chinese preserving melon), Citron melon, Cucumber, Gherkin, Gourd (edible) (includes hyotan, cucuzza), Luffa spp. (includes hechima), Momordica spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber), Muskmelon (hybrids and/or cultivars of Cucumia melo, including 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; Summer Squash (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini), Winter Squash (includes butternut squash, calabaza, hubbard squash, C. mixta, C. pepo, acorn squash, spaghetti squash), Watermelon (includes hybrids and/or varieties of Citrullus spp.)</p>		

EGGPLANT		
TARGET PESTS	RATE FL OZ/A (LBS AI/A)	REMARKS
Cabbage looper Colorado potato beetle Flea beetles Vegetable leafminer	6 (0.15)	Do not apply more than 24 oz. product (0.6 lbs. a.i.) per acre per year 1.0 in Hawaii). Apply as needed, using sufficient water to obtain uniform coverage.
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. • Do not apply at intervals less than 7 days. • Do not apply within 3 days of harvest. 		

HORSERADISH		
TARGET PESTS	RATE FL OZ/A (LBS AI/A)	REMARKS
Imported crucifer weevil (Baris lepidii)	0.1% active solution (2 pt, 1 oz per 100 gallons)	As a spring preplant dip, soak sets for 30 minutes and air-dry before planting.
	6 (0.15)	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. Do not apply more than 18 oz. product (0.45 lbs. a.i.) per acre per year.
<ul style="list-style-type: none"> • Do not apply within 30 days of harvest. • Do not apply at intervals less than 10 days. 		

LEAFY VEGETABLES (except Brassica)*		
TARGET PESTS	RATE FL OZ/A (LBS AI/A)	REMARKS
Aphids Beet armyworm Corn earworm Cutworms European corn borer Fall armyworm Green cloverworm Leafminers Southern armyworm Tobacco budworm	4 – 8 (0.1 – 0.2)	For Celery, do not apply more than 40 oz. product (1.0 lbs. a.i.) per acre per year (1.2 in Hawaii). For Spinach (including New Zealand and vine, Malabar and Indian spinach), do not apply more than 24 oz. product (0.6 lbs. a.i.) per acre per year. For Lettuce (head and leaf), do not apply more than 32 oz. product (0.8 lbs. a.i.) per acre per year (48 oz. product/1.2 lbs. a.i. in Hawaii). For other crops, do not apply more than 80 fl. oz. product (2.0 lbs. a.i.) per acre per year.
Alfalfa looper Cabbage looper Leafhoppers	2 – 8 (0.05 – 0.2)	
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. • For Spinach, do not apply at intervals less than 3 days. For all others, do not apply at intervals less than 7 days. • Do not apply within 1 day of harvest. 		
<p>* Leafy vegetables: Amaranth (leafy amaranth, Chinese spinach, tampala), Arugula (Roquette), Cardoon, Celery, Chinese celery, Celtuce, Chervil, Chrysanthemum (edible-leaved and garland), Corn salad, Garden Cress, Upland Cress (yellow rocket, winter cress), Dandelion, Dock (sorrel), Endive (escarole), Florence fennel (finocchio), Head and Leaf Lettuce, Orach, Parsley, Garden Purslane, Winter Purslane, Rhubarb, Swiss chard, Spinach (including New Zealand and vine, Malabar spinach, Indian spinach).</p>		

ONIONS, BULB		
TARGET PESTS	RATE FL OZ/A (LBS AI/A)	REMARKS
Armyworms Onion thrips	6 – 12 (0.15 – 0.3)	Begin applications when pests appear and repeat as necessary to maintain control. Use the higher label rates as onion thrips population increases and avoid rescue situations. Do not apply more than 40 oz. product (1.0 lbs. a.i.) per acre per year.
Cutworms Leafminers Onion maggots (adults) Stink bugs	4 – 12 (0.1 – 0.3)	
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 5 gallons of water per acre. By ground, apply in a minimum of 20 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. • Do not apply at intervals less than 7 days. • Do not apply within 1 day of harvest. 		

GARLIC		
TARGET PESTS	RATE FL OZ/A (LBS AI/A)	REMARKS
Armyworms Onion thrips	6 – 18 (0.15 – 0.2)	Begin applications when pests appear and repeat as necessary to maintain control. Use the higher label rates as onion thrips population increases and avoid rescue situations. Do not apply more than 32 oz. product (0.8 lbs. a.i.) active ingredient per acre per year.
Cutworms Leafminers Onion maggots (adults) Stink bugs	4 – 8 (0.1 – 0.2)	
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 5 gallons of water per acre. By ground, apply in a minimum of 20 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. • Do not apply at intervals less than 10 days. • Do not apply within 1 day of harvest. 		

PEPPERS, BELL		
TARGET PESTS	RATE FL OZ/A (LBS AI/A)	REMARKS
Cabbage looper Corn earworm Cutworms Flea beetle Pepper weevil Vegetable leafminer	4 – 8 (0.1 – 0.2)	Do not apply more than 32 oz. product (0.8 lbs. a.i.) per acre per year.
European corn borer	8 (0.2)	
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. • Do not apply at intervals less than 5 days. • Do not apply within 3 days of harvest. 		

POTATOES		
TARGET PESTS	RATE FL OZ/A (LBS AI/A)	REMARKS
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	4 – 8 (0.1 – 0.2)	Do not apply more than 32 oz. product (0.8 lbs. a.i.) per acre per year.
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. • AG-PERU-9004 also may be applied using refined non-volatile vegetable oil for control of listed pests. AG-PERU-9004 should be diluted with oil and applied in a minimum of one quart total volume per acre using equipment calibrated to give adequate coverage. Use sufficient spray volume to obtain full coverage. • Do not apply at intervals less than 10 days. • Do not apply within 14 days of harvest. 		

TOMATOES, TOMATILLOS		
TARGET PESTS	RATE FL OZ/A (LBS AI/A)	REMARKS
Beet armyworm Cabbage looper Colorado potato beetle Granulate cutworm Hornworms Southern armyworm Tomato fruitworm Tomato pinworm Vegetable leafminers	2 – 8 (0.05 – 0.2)	Do not apply more than 24 oz. product (0.6 lbs. a.i.) per acre per year (0.8 in Hawaii). Do not apply to cherry tomatoes or other varieties which produce fruit less than one inch in diameter.
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. • Do not apply at intervals less than 7 days. • May be applied up until harvest. 		

TREE FRUIT AND NUTS

ALMONDS		
TARGET PESTS	RATE FL OZ/A (LBS AI/A)	REMARKS
Navel orangeworm Peach twig borer	10 (0.25)	Apply when insects appear and repeat as required to maintain control. Apply by air or ground equipment. By air, apply in a minimum of 15 gallons of water per acre. By ground, apply in 25-400 gallons of finished spray per acre.
Ants	10 (0.25)	Apply by ground equipment only in a minimum of 15 gallons of water per acre. Application should follow mowing of weed growth to ensure maximum coverage of the soil surface. Overhead moisture following application will enhance activity.
<ul style="list-style-type: none"> Do not apply more than 30 oz. product (0.75 lbs. a.i.) per acre per year. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock. Do not apply at intervals less than 10 days. Do not apply within 7 days of harvest. 		

APPLES		
TARGET PESTS	RATE FL OZ/A (LBS AI/A)	REMARKS
Green fruitworm Oblique banded leafroller Plum curculio Redbanded leafroller Rosy apple aphid Spotted tentiform leafminer Tarnished plant bug White apple leafhopper	10(0.25)	Do not apply more than 20 oz. product (0.5 lbs. a.i.) per acre per year. Apply when insects appear and repeat as required to maintain control. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock.
<ul style="list-style-type: none"> Apply by ground equipment only. Apply in 25-400 gallons of finished spray per acre. Do not apply at less than 10 day intervals. Do not apply after petal fall. 		

CHERRIES (including sweet and tart cherries)		
TARGET PESTS	RATE FL OZ/A (LBS AI/A)	REMARKS
Green fruitworm Lesser peach tree borer Plum curculio Redbanded leafroller Rose chafer Tarnished plant bug	4 – 8 (0.1 – 0.2)	Apply when insects first appear. East of the Rockies: Do not exceed 6 applications per year, with no more than 4 applications after petal fall. West of the Rockies: Do not apply more than 4 applications per year, with no more than 3 applications after petal fall. Do not apply more than 24 oz. product (0.6 lbs. a.i.) per acre per year.
<ul style="list-style-type: none"> • Apply by ground equipment only. Apply in 25-400 gallons of finished spray per acre. • Do not graze livestock in treated areas. • Do not feed cover crops from treated areas to livestock. • Do not apply at less than 10 day intervals. • Do not apply within 3 days of harvest. 		

FILBERTS/HAZELNUTS		
TARGET PESTS	RATE FL OZ/A (LBS AI/A)	REMARKS
Filbertworm Oblique banded leafroller	10 (0.25)	Do not apply more than 30 oz. product (0.75 lbs. a.i.) per acre per year. Apply when insects appear. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock.
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 10 gallons of water per acre. By ground, apply in 25-400 gallons of finished spray per acre. • Do not apply at intervals less than 10 days. • Do not apply within 14 days of harvest. 		

PAPAYA (Florida Only)		
TARGET PESTS	RATE FL OZ/A (LBS AI/A)	REMARKS
Aphids Brown soft scale Mealybug Papaya fruit fly Papaya webworm Papaya whitefly Scale crawlers	6 (0.15)	Do not apply more than 30 oz. product (0.75 lbs. a.i.) per acre per year. Spray to wet all foliage. Apply when insects first appear and repeat at 7-10 day intervals as needed to provide control. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock.
<ul style="list-style-type: none"> • Apply by ground equipment only. Apply in 25-400 gallons of finished spray per acre. • Do not apply at intervals less than 10 days. • Do not apply within 7 days of harvest. 		

PEACHES and NECTARINES		
TARGET PESTS	RATE FL OZ/A (LBS AI/A)	REMARKS
Green fruitworm Lesser peach tree borer Oriental fruit moth Peach twig borer Plum curculio Rose chafer Tarnished plant bug	4 – 10 (0.1 – 0.25)	Do not apply more than 30 oz. product (0.75 lbs. a.i.) per acre per year. Spray to wet all foliage. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock.
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 10 gallons of water per acre. By ground, apply in 25-400 gallons of finished spray per acre. • Do not apply at interval less than 10 days. • Do not apply within 14 days of harvest. 		

PISTACHIOS		
TARGET PESTS	RATE FL OZ/A (LBS AI/A)	REMARKS
Leaffooted bugs Naval orangeworm Peach twig borer Plant bugs Stink bugs	8 – 12 (0.2 – 0.3)	Use sufficient water to obtain full coverage of foliage.
Ants	12 (0.3)	Application should follow mowing of weed growth to ensure maximum coverage of the soil surface. Overhead moisture following application will enhance activity.
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 10 gallons of water per acre. By ground, apply in 25-400 gallons of finished spray per acre. • Do not apply after 10 percent hull split. • Do not apply more than 36 oz. product (0.9 lbs. a.i.) per acre per year. • Do not graze livestock in treated areas. • Do not feed cover crops from treated areas to livestock. • Do not apply at intervals less than 10 days. 		

PEARS			
CROP	TARGET PESTS	RATE FL OZ/A (LBS AI/A)	REMARKS
Pears (Dormant through Delayed Dormant)	Pear psylla	8 – 16 (0.2 – 0.4)	May be combined with 2 to 8 gallons of spray oil per acre. Apply during the dormant through delayed dormant growth periods only.
Pears (Pre-Bloom)	Codling moth Green fruitworm Pear psylla	10 (0.25)	Pre-bloom sprays can be applied from dormant through bud burst stages.
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 10 gallons of water per acre. By ground, apply in 25-400 gallons of finished spray per acre. Use sufficient water to obtain uniform coverage. • Do not graze livestock in treated areas. • Do not apply more than 26 oz. product (0.65 lbs. a.i.) per acre per year. • Do not apply at intervals less than 10 days. • Do not feed cover crops from treated areas to livestock. 			

WALNUTS		
TARGET PESTS	RATE FL OZ/A (LBS AI/A)	REMARKS
Codling moth Navel orangeworm Walnut husk fly	10 (0.25)	Do not apply more than 30 oz. product (0.75 lbs. a.i.) per acre per year. Apply when insects appear. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock.
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 10 gallons of water per acre. By ground, apply in 25-400 gallons of finished spray per acre. Use sufficient water to obtain uniform coverage. • Do not apply at intervals less than 10 days. • Do not apply within 1 day of harvest. 		

OTHER CROPS

ALFALFA			
CROP	TARGET PESTS	RATE FL OZ/A (LBS A/A)	REMARKS
Alfalfa Alfalfa grown for seed (Includes lucerne, sainfoin, holy clover, esparcet, birdsfoot trefoil and varieties and/or hybrids of these)	Alfalfa caterpillar Armyworms Blue alfalfa aphid Cutworms Green cloverworm Green peach aphid Loopers Pea aphid Spotted alfalfa aphid Velvetbean caterpillar Webworms	2 – 8 (0.05 – 0.2)	Do not apply more than 8 oz. product (0.2 lbs. a.i.) per cutting. Use higher labeled rates for increased pest pressure or for increased residual pest control. Avoid application when bees are actively foraging by applying during the early morning or during the evening hours.
	Alfalfa weevil Cucumber beetle Egyptian alfalfa weevil Meadow spittlebug Plant bugs (including <i>Lygus</i> spp.) Potato leafhopper Stink bugs	4 – 8 (0.1 – 0.2)	
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Use higher gallonage, 5-10 gallons by air or 20 by ground, of finished spray per acre when foliage is dense and/or when pest populations are high. • May be applied up until harvest when rates of 0.1 pound per active per acre or less are used. When rates greater than 4 oz. product (0.1 lbs. a.i.) are used, do not apply within 14 days of harvest. • Do not apply at intervals less than 30 days. • Apply only to fields planted to pure stands of alfalfa. 			

CORN (FIELD), FIELD CORN GROWN FOR SEED, POPCORN			
CROP	TARGET PESTS	RATE FL OZ/A (LBS AI/A)	REMARKS
Field Corn, Field corn grown for seed, Popcorn (Pre-emergent Use)	Armyworm Cutworm Stalk borers	4 – 6 (0.1 – 0.15) as a broadcast spray OR 0.3 – 0.6 oz per 1000 linear feet row (based on a 4” band and 40” row spacing)	May be applied as a preplant incorporated, pre-emergence, or at planting time application. Apply in the time period from 5 days prior to planting up to emergence of the crop. Apply as a broadcast spray by ground or 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 labeled rates of AG-PERU-9004 when incorporating into the soil without exceeding the recommended dosage. Do not apply more than 18 oz. product (0.45 lbs. a.i.) per acre per year.
Field Corn, Field Corn Grown for Seed, Popcorn (Foliar Use)	Armyworm (including Fall Armyworm) Corn borer European, Southwestern Corn earworm Corn rootworm beetles Cutworm Flea beetle Hop vine borer Stalk borers Webworms	4 – 6 (0.1 – 0.15)	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. Do not apply more than 18 oz. product (0.45 lbs. a.i.) per acre per year. When treating for stalk borers, AG-PERU-9004 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 is suggested to initiate
	Western bean cutworm	2 – 4 (0.05 – 0.1)	movement. For control of corn earworm, apply just before silking and continue as necessary to maintain control.
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. Maximum rate is 6 oz. product (0.15 lbs. a.i.) per acre. • Do not apply at intervals less than 7 days. • Do not apply within 30 days of harvest of grain or fodder (stover). • Forage may be harvested on the day of application. 			

CORN (FIELD), FIELD CORN GROWN FOR SEED, POPCORN			
CROP	TARGET PESTS	RATE FL OZ/A (LBS AI/A)	REMARKS
Field Corn, Field corn grown for seed, Popcorn (At Plant Use)	Armyworm Cutworm Seed corn maggot* Wireworm*	0.3 oz per 1000 linear feet of row	Apply as an in furrow, band or T-band treatment using a minimum 4" band. Use table below to determine the AG-PERU-9004 needs for each acre. * Not for use in California
Row Spacings (inches)		40	30 20
AG-PERU-9004 (ounces per acre)		4.0	6.0 6.0
AG-PERU-9004 (pounds ai per acre)		0.10	0.15 0.20

MUSHROOMS (Mushroom Houses and Adjacent Premise Areas)		
TARGET PESTS	RATE OZ (LBS AI)	REMARKS
Mushroom flies (Sciarid and Phorid adults)	2 – 2.5 (0.05 – 0.0625)	Preparation of the building prior to fogging: (1) Close all doors, windows, and ventilators, (2) Lock or barricade all entrances, turn off pilot lights, post warning signs, and take precautions to prevent persons and animals from entering the area. Use prior to filling the house, during cool-down, during spawning, up to pinning, and between breaks. Do not use when mushrooms are present. Treat once daily 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. Length of exposure time should be limited to 1 hour; then ventilate the house. Use fans to ventilate in houses that do not have forced air circulation. Wear a minimum of a NIOSH-approved elastomeric half-mask respirator with organic vapor (OV) cartridges; OR a NIOSH-approved full face respirator with OV cartridges; OR a gas mask with OV canisters; OR a powered air purifying respirator with OV cartridges.
<ul style="list-style-type: none"> • Apply in 30 ounces of water or suitable diluent. Use 1 quart of solution per standard double house (35,000 cu. ft.: 8000 sq. ft.). • Apply as a fogging or aerosol treatment. • Do not apply within 3 days of harvest. • Use of high pressure hand wand is prohibited in mushroom houses. 		

RANGE GRASS (New Mexico Only)		
TARGET PESTS	RATE FL OZ/A (LBS AI/A)	REMARKS
Range caterpillar	0.4 (0.1)	Do not apply more than once per year. Cattle may be present during application.
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of finished spray per acre. Use sufficient volume to obtain uniform coverage. • Do not harvest or feed hay to livestock. 		

SOYBEANS		
TARGET PESTS	RATE FL OZ/A (LBS AI/A)	REMARKS
Bean leaf beetle Cabbage looper Corn rootworm beetle Cutworms Flea beetle Green cloverworm Japanese beetle Mexican bean beetle Potato leafhopper Saltmarsh caterpillar (Woollybear caterpillar) Thistle caterpillar Velvetbean caterpillar	2 – 4 (0.05 – 0.1)	Do not apply more than 16 oz. product (0.4 lbs. a.i.) per acre per year. Do not graze treated areas or feed soybean forage or hay.
Beet armyworm Corn earworm Soybean looper Webworms	4 – 8 (0.1 – 0.2)	
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. • AG-PERU-9004 may also be applied using refined non-volatile vegetable oil for control of listed pests. AG-PERU-9004 should be diluted with oil and applied in a minimum of 1 quart total volume per acre using equipment calibrated to give adequate coverage. When applying in water by aircraft, 1 quart of oil may be substituted for 1 quart of water per gallon of finished spray. • Do not apply at intervals less than 10 days. • Do not apply within 60 days of harvest. 		

CHRYSANTHEMUMS			
CROP	TARGET PESTS	RATE OZ (LBS AI)	REMARKS
Chrysanthemums	Liriomyza leafminer flies	20 (0.5) per 100 gallons of water (1 teaspoon per gallon)	Avoid spraying the blooms. May be applied on a weekly schedule.
<ul style="list-style-type: none"> • Caution: AG-PERU-9004 has demonstrated excellent plant safety; however, not all cultivars have been tested. Before treating large numbers of plants of a particular cultivar, treat a few plants and observe prior to full scale application. 			

CONIFERS (Container and Field Grown)			
CROP	TARGET PESTS	RATE FL OZ/A (LBS AI/A)	REMARKS
Conifers (container and field grown)	Nantucket pine tip moth	4 – 8 (0.1 – 0.2)	Begin application when the adults appear and repeat at 5 to 7 day intervals or as needed throughout the year.
<ul style="list-style-type: none"> AG-PERU-9004 may be diluted in a non-volatile vegetable oil or water in a minimum of 1 gallon of finished spray per acre using equipment calibrated to give adequate coverage. 			

ORNAMENTAL NURSERY STOCK (Field Grown)			
CROP	TARGET PESTS	RATE OZ (LBS AI)	REMARKS
Ornamental nursery stock (field grown)	Bagworm Beet armyworm Cabbage looper Citrus thrips Lace bug Leafhoppers Leafminers Whiteflies	4 – 8 (0.1 – 0.2) per 100 gallons of water	AG-PERU-9004 may be used to control specified pests on non-edible ornamentals and non-bearing plants of fruiting species.
<ul style="list-style-type: none"> Caution: Marginal leaf burn may occur on Salvia, Dieffenbachia and Pteris Fern. Application to blooming plants may cause browning of petals. AG-PERU-9004 has demonstrated excellent plant safety; however, not all species and cultivars have been tested. Before treating large numbers of plants of a particular variety, treat a few plants and observe prior to full scale application. 			

PINE SEED ORCHARDS			
CROP	TARGET PESTS	RATE OZ	REMARKS
Pine seed orchards	Coneworms Seed bugs	Ground (low and high volume applications: Use 8 – 16 fl. Oz. of product/treated acre (0.2 -0.4 lbs ai/treated acre.	Use a final carrier solution of 25-400 gallons depending on the type of sprayer system being used. Make up to three applications per year.
		Air: Use 24 fl. Oz. of product/treated acre (0.6 lbs. ai/treated acre)	Apply in a minimum of 5 gallons of finished spray per acre. Apply once per year.
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.			
<ul style="list-style-type: none"> • Do not graze livestock in treated areas. • Harvesting of conifer seed cones is prohibited within 30 days of application. • Do not feed cover crops from treated areas to livestock. • Avoid contact with open water. 			

ROSES (Field Grown)			
CROP	TARGET PESTS	RATE FL OZ/A (LBS AI/A)	REMARKS
Roses (field grown)	Heliothis spp.	4 – 8 (0.1 – 0.2)	
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of finished spray per acre. 			

ROSES (Greenhouse)			
CROP	TARGET PESTS	RATE OZ (LBS AI)	REMARKS
Roses (greenhouse)	Beet armyworm Cabbage looper Omnivorous leafroller	8 (0.2) per 100 gallons of water	Spray plant foliage thoroughly using standard spraying equipment including but not limited to hand-held, backpack, or power sprayers.
<ul style="list-style-type: none"> • AG-PERU-9004 is not phytotoxic to the following varieties of greenhouse roses: Ballena, Bettina, Cara Mia, Coquette, Excitement, Forever Yours, G. Wave, Jack Frost, Jr. Bridesmaid, Matador, Paul's Pink, Samantha, Seventeen, Sonia, Town Crier, Tropicana and Visa. Other varieties may vary in their sensitivity to AG-PERU-9004, and a small number of plants should be treated under local conditions to determine plant safety prior to commercial use. 			

**LAWN AND ORNAMENTAL USES
(Including Field and Container Grown Nursery Stock, Greenhouses,
Interiorscapes and Plantscapes, Lawns, Trees, and Shrubs)**

AG-PERU-9004 may be used to control insect pests on ornamentals and lawns in landscaped areas around residential, institutional, public, commercial and industrial buildings, parks, recreational areas and athletic fields.

PLANT	PEST	TREATMENT RATE	SPECIFIC APPLICATION INSTRUCTIONS
<p>Ornamental Plants, foliage and flowering plants, evergreens, woody and herbaceous non-edible ornamentals and non-bearing plants of fruiting species in landscaped areas around industrial, residential and commercial buildings, non-crop areas, nurseries and greenhouses; and, for treatment of plants intended for aesthetic purposes in interior gardens and plantscapes.</p>	<p>Ants Aphids Bagworm Beet Armyworm Birch Leafminer Cabbage Looper Cankerworms Citrus Thrips Coneworms* Fungus Gnat Gypsy Moth Caterpillars Heliothis spp Japanese Beetles Lace Bug Leaf Feeding Caterpillars Leafhoppers Leafminers Leaf rollers Lygus Bugs Mealybugs Nantucket Pine Tip Moth* Pine Sawflies Plant Bugs Root Weevils (Adult) Seed bugs* Tent Caterpillars Webworms Whiteflies Zimmerman Pine Moth</p>	<p>4 to 8 Fluid Ounces Per 100 gallons -- or -- Broadcast 4 to 8 Fluid Ounces Per Acre</p>	<p>Apply sufficient volume of water to adequately cover foliage.</p> <p>Use higher labeled rate for moderate to high infestations.</p> <p>Direct application to blooms may cause browning of petals. Marginal leaf burn may occur on Salvia, Dieffenbachia and Pteris Fern.</p> <p>*For control of coneworms, Nantucket pine tip moth and seed bugs in evergreens: Begin application when adults appear. Repeat applications may be made on 5-7 day intervals as needed. To control Webbing Coneworms make first application just prior to peak pollen flight. To control other Coneworms and Seed Bugs, make application 30 days following flower closure. Mix 8 oz. in 100 gals. of water and apply 5 to 10 gals. of spray per tree.</p>
<p>Ornamental Trees</p>	<p>Clearwing moth borers: Ash borer, Banded Ash Clearwing, Dogwood borer, Lesser peachtree borer, Lilac borer, Oak borer, Peachtree borer, Rhododendron borer</p>	<p>1 to 2 Quarts per 100 gallons</p>	<p>Treat thoroughly lower branches and trunk area but not to the point of runoff prior to adult emergence.</p> <p>Emergence varies according to host tree, environmental conditions and geography of the country.</p>

PLANT	PEST	TREATMENT RATE	SPECIFIC APPLICATION INSTRUCTIONS
	Bark Beetles: Dendroctonus spp., Ips spp., Elm bark beetles, Mountain pine beetle, Pine engravers, Turpentine beetles, Western pine beetle Coleopteran borers: Bronze birch borer, Flatheaded appletree borer	2 to 5 Quarts per 100 gallons	Thorough coverage of bark on scaffold limbs to the ground level of the trunk is recommended for best control.
Lawns (around residential, commercial, industrial, institutional, and public buildings, parks, recreational areas, and athletic fields) and grass nurseries	Chinchbugs Pillbugs Sod Webworm Ants Ant Mounds Armyworm Fire Ants Centipedes Crickets Mole Crickets Earwigs Firebrats Fleas ¹ Ground beetles Millipedes Scorpions Silverfish Sowbugs Spiders	0.4 to 0.8 Fluid Ounces per 1000 Square Feet	Apply using 4 – 25 gallons of spray volume. Use higher labeled rate for moderate to high infestations. Do not apply more than 40 oz. product (2.0 lbs.a.i.) per acre per year. ¹ Fleas: Mix 0.4 – 0.8 fl. oz. product (0.01 to 0.02 lbs. a.i.) in 4 to 25 gallons of water per 1000 square feet. Use the higher labeled rate for fast knockdown and increased residual control. Dense or excessive (greater than 3 inches) lawn height and arid conditions may require higher volume application rates. Repeat application if necessary. Application in combination with compatible surfactants or wetting agents may enhance penetration.

OTHER USES

PREMISES SPRAY (For Agricultural Use Only)			
SITE	TARGET PESTS	DILUTE	REMARKS
For Application In: 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	4 oz. product (0.1 lb. a.i.) to 12.5 gallons of water Apply by sprayer at 1 gallon per 750 sq. ft. of space	Spray directly to walls and ceiling as residual surface treatment only. Re-treat as necessary, but not more often than once every 2 weeks. Do not treat manure or litter.
<ul style="list-style-type: none"> The use of any residual fly spray should be supplemental with proper manure management and general sanitation to reduce or eliminate fly breeding sites. Do not apply directly to livestock or poultry. Do not contaminate feed and water. 			

TREATMENT OF PRECONSTRUCTION LUMBER AND LOGS

General Information

AG-PERU-9004 must be diluted. To prepare the spray, dilute AG-PERU-9004 as shown in the following spray dilution chart:

GALLONS OF SPRAY MIXTURE DESIRED	GALLONS OF AG-PERU-9004 FOR 0.5% SOLUTION	GALLONS OF AG-PERU-9004 FOR 0.75% SOLUTION	GALLONS OF AG-PERU-9004 FOR 1.0% SOLUTION
40	1/2	3/4	1
80	1	1 1/2	2
200	2 1/2	3 3/4	5
400	5	7 1/2	10
800	10	15	20

Directions for Application

To protect unseasoned lumber and logs from wood destroying insects, such as Termites, Carpenter Ants and Beetles (Ambrosia, Powder-post, Old house borers and others), totally treat wood with a 0.5% to 1.0% solution of AG-PERU-9004. This solution can be applied by spraying, brushing, dipping, and pressure treatment. Frequent monitoring of dip and pressure systems are necessary to insure that the desired level of AG-PERU-9004 is maintained. Wood can be handled after treatment when dry.

- For dip treatments, totally submerge the wood in the solution until thoroughly wet and then allow to dry in a suitable location. Agitate dipping solutions to which AG-PERU-9004 has been added should be agitated before use if left unused for long periods of time. Periodically clean debris and other deposits from the tank.
- For pressure treatments place the wood in the treatment chamber, add the AG-PERU-9004 solution, and pressurize the system up to 250 psi for up to one hour depending on the density and type of wood treated. After the pressure is released and the system drained, the wood should be placed in a suitable location for drying.
- For spray treatments, spray the wood thoroughly including back and ends.
- For brush treatments, thoroughly treat all parts of wood surfaces.

STORAGE AND DISPOSAL

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

Pesticide Storage: Store at temperatures above 40°F (5°C).

If feasible, shake container well before using. If crystals form, warm to room temperature by placing container in a room at ambient temperature 70°F (21°C) until crystals dissolve.

Do not use or store near heat, open flame or hot surfaces.

Keep out of reach of children and animals.

Store in a dry place and avoid excess heat in storage. Store in original containers only.

Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. To confine spill, dike surrounding area or absorb with sand, cat litter, commercial clay or gel absorbents. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Handling: Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying.

[Containers less than 5 gallons] Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

[Containers greater than 5 gallons] Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

ATTENTION

Dealers Must Sell in Original Packages Only.

**IMPORTANT INFORMATION
READ BEFORE USING PRODUCT**

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 reflect the opinion of experts based on field use and tests, and must be followed carefully. It is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as 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 AGROVIA LLC or Seller. Handling, storage, and use of the product by Buyer or User are beyond the control of AGROVIA LLC and Seller. To the extent consistent with applicable law all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold AGROVIA LLC and Seller harmless for any claims relating to such factors.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, AGROVIA LLC AND SELLER MAKE NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ON THIS LABEL.

To the extent consistent with applicable law, AGROVIA LLC or Seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product and **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF AGROVIA LLC 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 AGROVIA LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

AGROVIA LLC 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 the duly authorized representative of AGROVIA LLC.