



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

EPA Reg. Number:

70506-346

Date of Issuance:

7/30/18

NOTICE OF PESTICIDE:

Registration
 Reregistration
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Argyle Insecticide

Name and Address of Registrant (include ZIP Code):

Sherry Hutcheson
United Phosphorus, Inc.
630 Freedom Business Center, Suite 402
King of Prussia, PA 19406

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

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

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

This product is 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.

Signature of Approving Official:

Elizabeth Fertich, Product Manager 04
Invertebrate & Vertebrate Branch 1
Registration Division (7505P)
Office of Pesticide Programs

Date:

7/30/18

2. You are required to comply with the data requirements described in the DCI or EDSP Order identified below:

a. Bifenthrin GDCI-128825-902
 GDCI-128825-1114
 GDCI-128825-1158
 GDCI-128825-1159

b. Bifenthrin EDSP-128825-66
 EDSP-128825-67
 EDSP-128825-68
 EDSP-128825-70
 EDSP-128825-71
 EDSP-128825-73
 EDSP-128825-962

c. Acetamiprid GDCI-099050-1300

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI or EDSP Order listed above, you may contact the Chemical Review Manager in the Pesticide Reevaluation 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. 70506-346.”

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 the Federal Insecticide Fungicide and Rodenticide Act 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) list 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. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 11/08/2017

If you have any questions, please contact Matthew Aubuchon by phone at 703 347-0477, or via email at Aubuchon.Matthew@epa.gov.

Enclosure

ACCEPTED
07/30/2018
Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 70506-346

Argyle Insecticide
Draft Label
July 30, 2018

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 the uses covered by the certified applicator's certification.

GROUP	3A	INSECTICIDE
GROUP	4A	INSECTICIDE

ARGYLE INSECTICIDE

ACTIVE INGREDIENTS:	BY WT.
Bifenthrin (2 methyl[1,1'-biphenyl]-3-yl) methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethyl-cyclopropanecarboxylate*.....	18.0%
Acetamiprid, (E)-N ¹ -[(6-chloro-3-pyridyl)methyl]-N ² -cyano-N ¹ -methyl acetamidine.....	11.8%
OTHER INGREDIENTS:	70.2%
TOTAL:	100%

This product contains 1.52 pounds active ingredient of Bifenthrin and 1.00 pounds active ingredient of Acetamiprid

KEEP OUT OF REACH OF CHILDREN WARNING AVISO

This label must be in the possession of the user at the time of application.
Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
IF SWALLOWED	<ul style="list-style-type: none"> Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by the 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.
NOTE TO PHYSICIAN	
<p>This product contains a pyrethroid. If large amounts have been ingested, the stomach and intestine should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided. Contains petroleum distillates. Vomiting may cause aspiration pneumonia.</p> <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 CENTER 1-866-673-6671. FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300.</p>	

NET CONTENTS: _____ Gallons

United Phosphorus, Inc.
630 Freedom Business Center, Suite 402
King of Prussia, PA 19406
1-800-438-6071

EPA Reg. No. 70506-_____
EPA Est. No. _____

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS (& DOMESTIC ANIMALS)
WARNING / AVISO**

May be fatal if swallowed. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing, Harmful if inhaled or absorbed through the skin. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using the toilet. Avoid breathing vapors or spray mist. Wear protective eyewear.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants;
- Chemical resistant gloves (such as barrier laminate, Nitrile rubber, neoprene rubber, or Viton)
- Protective eyewear
- Shoes plus socks

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

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

User Safety Recommendations

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

Environmental Hazards

This product is toxic to birds, extremely toxic to fish and aquatic invertebrates. Use with care when applying in areas adjacent to any body of water. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not make applications when weather conditions favor drift from treated areas. Drift and run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters or rinsate.

This product is toxic to bees exposed to direct treatment. Do not apply this product while bees are foraging in the treatment area.

PHYSICAL AND CHEMICAL HAZARDS

Do not mix or allow contact with oxidizing agents. Hazardous chemical reaction may occur.

Ground Water Advisory

This product has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

Surface Water Advisory

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for several months or more after application. Avoid accidental or intentional application of this product to ditches, swales, drainage ways or impervious surfaces such as driveways. Runoff of this product to surface water will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

SPRAY DRIFT

Avoid spray drift. Do not apply when weather conditions may cause drift. Do not allow this product to drift on to non-target areas. To avoid spray drift, DO NOT apply aurally when wind speed is greater than 10 mph or during periods of temperature inversions. For aerial application, select nozzles and pressure that deliver **MEDIUM** spray droplets as indicated in nozzle manufacturer's catalogs and in accordance with ASAE Standard S-572.

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

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

The following drift management requirements must be followed to avoid off-target movement from aerial applications to agricultural crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

1. The distance of the outer most nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
2. Nozzles must always point backward parallel with the air stream.

Where states have more stringent regulations, they should be observed.

The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory below:

AERIAL DRIFT REDUCTION ADVISORY

[This section is advisory in nature and does not supersede the mandatory label requirements.]

INFORMATION ON DROPLET SIZE

The most effective way to reduce drift potential is to apply **MEDIUM** droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (See Wind, Temperature and Humidity, and Temperature Inversions).

CONTROLLING DROPLET SIZE

Volume - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.

Pressure - Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

Number of nozzles - Use the minimum number of nozzles that provide uniform coverage.

Nozzle Orientation - Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.

Nozzle Type - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

BOOM LENGTH

For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

APPLICATION HEIGHT

Applications should not be made at a height greater than 10 feet above the top of the target plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

SWATH ADJUSTMENT

When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator should compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.).

WIND

Drift potential is lowest between wind speeds of 3 - 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

TEMPERATURE INVERSIONS

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source 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.

SENSITIVE AREAS

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

DIRECTIONS FOR USE

RESTRICTED USE PESTICIDE

**It is a violation of Federal law to use this product in any manner inconsistent with its labeling.
Read entire label before using this product.**

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Agricultural Use Requirements

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

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

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, Nitrile rubber, neoprene rubber, or Viton), and shoes plus socks.

Non-Agricultural Use Requirements

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The Worker Protection Standard applies when this product is used to protect agricultural plants on farms, forests, nurseries or greenhouses. Keep unprotected persons out of treated area until sprays have dried.

Resistance Management

Any insect/mite population may contain individual insects that may develop resistance to a specific pesticide product used in consecutive generations to control these pests. Prediction of resistance development is uncertain. Follow appropriate resistance management strategies. Contact your local extension specialist or certified crop advisors for any additional pesticide resistance management and/or Integrated Pest Management recommendations for the specific site and pest problems in your area.

If resistance to this product develops in your area, you may find reduced control from this product or other products with a similar mode of action. If poor performance cannot be related to improper application methods or extreme weather, it is possible that a resistant strain of insect may be present. If poor control occurs and resistance is a reasonable cause, immediately consult with your local UPI representative or agricultural advisor for the best alternative method of control for your area.

DIRECTIONS FOR CHEMIGATION APPLICATIONS

For chemigation use only on soybeans after foliage has emerged and only through overhead sprinkler irrigation systems.

Apply this product only through overhead irrigation systems including center pivot, lateral move, side (wheel) roll, solid set, or hand move irrigation systems after soybean foliage has emerged. 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.

The set up and calibration of chemigation equipment are important to achieve control of target insect pests. Crop injury, lack of effectiveness, or illegal residues in the crop can result from non-uniform distribution of treated water. Contact your State Agricultural Extension Service specialists, equipment manufacturers or other experts for advice on the suitability of the equipment set up for optimum control of the target insect pests.

A person knowledgeable of the chemigation system and responsible for its operations, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise. Failure to cease application during a mechanical stoppage may result in undesirable residues to adjacent areas.

The overhead sprinkler chemigation 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 back flow.

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.

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

APPLICATION INSTRUCTIONS

Follow the requirements in the System Requirement section above. Apply Argyle insecticide only through systems containing anti-siphon and check valves designed to prevent water source contamination or overflow of the mix tank and containing interlocking controls between the metering device and the water pump to insure simultaneous shut-off. Maintain a gentle continuous agitation in mix tank during mixing and application to assure a uniform suspension. Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute suspension per unit time. Application of more than recommended quantities of irrigation water per acre may result in decreased product performance. Do not apply when wind speed favors drift, when system connections or fittings leak, when nozzles do not provide uniform distribution or when lines containing the product cannot be flushed and must be dismantled and drained. In a center pivot system, block the nozzle set nearest the well/pivot/injection unit to prevent spray being applied to this area. Use of end guns which deliver uneven distribution of water is not recommended. Where sprinkler distribution patterns do not overlap sufficiently, unacceptable insect control may result. Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. Argyle insecticide may be applied in conjunction with chemically neutral liquid fertilizers. Application in conjunction with highly alkaline fertilizers, such as aqueous ammonia, may cause a degradation of the pesticide, resulting in reduced performance and should be avoided.

SPRAY PREPARATION

Remove scale, pesticide residues, and other foreign matter from the chemical tank and entire injector system. Flush with clean water. Prepare a solution of Argyle insecticide in a mix tank. Fill the tank with $\frac{1}{2}$ to $\frac{3}{4}$ the desired amount of water. Start mechanical or hydraulic agitation. Slowly add the required amount of Argyle insecticide and then the remaining volume of water.

SPRINKLER IRRIGATION

Follow all System Requirements and Application Instructions above. Set sprinkler system to deliver a maximum of 0.2 inch of water per acre. Volumes of water higher than this may reduce efficacy. Start sprinkler and then uniformly inject the solution of Argyle Insecticide into the irrigation water line so as to deliver the desired rate per acre. The solution of Argyle Insecticide should be injected with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing. Retention of Argyle Insecticide on foliage is necessary for optimum activity. Do not apply when wind speed favors drift beyond the area intended for treatment. When sprinkler distributed patterns do not overlap sufficiently, unacceptable insect control may result.

DIRECTIONS FOR AERIAL OR GROUND SPRAY APPLICATION

APPLICATION TIMING

Begin application when insect populations reach recognized economic threshold levels. Consult the Cooperative Extension Service, Professional Consultants or other qualified authorities to determine appropriate threshold levels for treatment in your area.

APPLICATION INSTRUCTIONS

Follow the following minimum water volumes per acre by crop type unless otherwise specified differently in an individual crop section.

Spray Volumes – Cotton and Soybeans

Argyle Insecticide should be applied in a minimum finished spray volume of 3 gallons per acre by aircraft and 10 gallons per acre by ground equipment. Under extreme pest populations or dense foliage, use a minimum spray volume of 5 gallons per acre by air.

Spray Volumes – All Other Crops

Argyle Insecticide should be applied in a minimum finished spray volume of 5 gallons per acre by aircraft and 20 gallons per acre by ground equipment. Under extreme pest populations or dense foliage, increase water volume.

Additional Requirements for Ground Applications.

Wind speed must be measured adjacent to the application site on the upwind side, immediately prior to applications. For ground boom applications, apply using a nozzle height of no more than 4 feet above the ground or crop 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.

USE OF ADJUVANTS

The use of spray adjuvants, such as high quality methylated seed oil (MSO) for applications by ground or crop oil concentrates (COC) for applications by air are recommended to improve coverage and pest control. The addition of an adjuvant is recommended for all applications made to cotton. The use of stickers is not recommended. Some adjuvants can cause adverse affects, such as spotting or burn to foliage. Follow adjuvant label use directions. Consult your local Extension Service, Crop Advisor or United Phosphorus Inc. sales representative for additional information.

RECOMMENDED APPLICATION INSTRUCTIONS

Use higher dosage rates for heavy infestations, dense foliage or for control of mid-to late season populations. The specific length of residual control depends on environmental factors, plant growth, dosage rate, and degree of insect infestation.

For best results, it is important to obtain thorough and uniform spray coverage of the plant. For best results when making **ground applications**, apply using nozzles that produce FINE TO MEDIUM size droplets (ex. flat fan, twin jets or hollow cones). The use of nozzles that produce very course droplets (ex. Air induction or ultra low drift) are not recommended. When **banding**, determine the amount of chemical to use per acre by dividing the band width by the row width and multiplying by the appropriate broadcast rate. For **aerial application**, select nozzles and pressure that deliver MEDIUM spray droplets as indicated in nozzle manufacturer's catalogs and in accordance with ASAE Standard S-572.

To clean the sprayer after use, drain and flush with water. Use rinsings on crop according to label instructions or dispose of in an approved manner (see STORAGE AND DISPOSAL).

MIXING INSTRUCTIONS

MIXING ORDER

Argyle Insecticide is an oil disperse formulation that readily disperses in water to form a spray. Argyle can be applied by ground or air. Utilize the following mixing instructions to prepare the spray solution.

1. Plan ahead. Prepare only enough spray mixture as can be applied on the day of mixing.
2. Fill tank $\frac{1}{4}$ to $\frac{1}{2}$ full with the required amount of total spray volume of water.
3. Begin agitation and add Argyle Insecticide. **SHAKE THE JUG BEFORE POURING.**

4. Continue to fill tank.
5. Allow mixing in tank for 2 minutes after filling or until thoroughly mixed before applying.
6. Maintain continuous agitation during mixing and application to assure uniform suspension. If mixture sits without agitation for extended periods, agitate the mixture for at least 10 minutes before use.
7. Equip spray system with a 50-mesh inline filter, which will protect nozzles that are typically used. Nozzles may also be equipped with 50-mesh nozzle filters or 25 to 50 mesh (equivalent) slotted nozzle filters.
8. Argyle Insecticide is unstable in water pH below 4 and above 9. If necessary, buffer water to obtain optimum pH range.

SPECIAL INSTRUCTIONS FOR TANK MIXING ARGYLE INSECTICIDE

When tank mixing Argyle Insecticide with other products, introduce the products into the tank in the following order: (1) Products in water soluble bags, (2) wettable powders, (3) water dispersible granules, (4) water-based suspension concentrates, (5) water soluble concentrates, (6) oil-based concentrates, (7) emulsifiable concentrates, (8) adjuvants, surfactants, oils, (9) soluble fertilizers, and (10) drift retardants.. Always allow each product to fully disperse before adding the next product.

Read and follow all applicable directions, restrictions, and precautions on the EPA-registered labels for other tank mix partners. Follow the most restrictive language that appear on the labels of the tank mix partner. Test for compatibility of products before mixing. See **COMPATIBILITY** section of this label.

COMPATIBILITY

Argyle Insecticide, when diluted with the proper volume of water, is physically compatible with a wide range of commonly used spray products, but the full range of compatibilities under local conditions is not known. Therefore, it is essential that before using Argyle Insecticide in any tank mixture the compatibility of the mixture be established. Add a small amount of this product to an equal volume of water in a small container and then add the other pesticide or spray product and mix thoroughly. **DO NOT USE MIXTURES THAT CURDLE, PRECIPITATE, OR GREASE. FOR BEST RESULTS, SPRAY MIXTURES SHOULD BE USED IMMEDIATELY AFTER MIXING WITH ADEQUATE AGITATION.** Read and follow all applicable directions, restrictions, and precautions on the EPA-registered labels for other tank mix partners.

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 bifenthrin onto fields where a maintained vegetative buffer strip of at least 10 feet exists between the field and down gradient aquatic habitat.

Buffer Zone for Ground Application (groundboom, overhead chemigation)

Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries, and commercial fish ponds). In New York State, this product may not be applied within 100 feet (using ground equipment) of coastal marshes or streams that drain into coastal marshes.

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, permanent streams, marshes, natural ponds, estuaries, and commercial fish ponds). In New York State, this product may not be applied within 300 feet (using aerial equipment) of coastal marshes or streams that drain into coastal marshes.

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.nrcs.usda.gov/technical/agronomy/newconbuf.pdf>.

ROTATIONAL PLANT BACK INTERVALS

There are no rotational plant back restrictions for Argyle Insecticide if the plant back crop is on both acetamiprid and bifenthrin product labels. All other crops cannot be planted until 30 days after the last application of Argyle Insecticide.

USE RATES ACTIVE INGREDIENT PER ACRE
Active Ingredient Per Acre at Various Labeled Use Rates

Argyle Use Rate Per Acre	Bifenthrin AI/Acre	Acetamiprid AI/Acre
3.0 fl. oz/A	0.036 lbs ai/A	0.023 lbs ai/A
4.0 fl. oz/A	0.048 lbs ai/A	0.031 lbs ai/A
5.0 fl oz/A	0.059 lbs ai/A	0.039 lbs ai/A
6.0 fl oz./A	0.071 lbs ai/A	0.047 lbs ai/A
7.0 fl. oz/A	0.083 lbs ai/A	0.055 lbs ai/A
8.0 fl oz/A	0.095 lbs ai/A	0.063 lbs ai/A
9.0 fl. oz./A	0.107 lbs ai/A	0.070 lbs ai/A
16.0 fl oz/A	0.190 lbs ai/A	0.125 lbs ai/A

USE DIRECTIONS

COTTON

PEST CONTROLLED	USE RATE PER ACRE (FL.OZ/A)	APPLICATION INSTRUCTIONS
Aphid spp European Corn Borer Grasshopper Fleahopper	3.0 – 9.0 fl oz/A	Apply when labeled pests populations reach economic thresholds. Use higher rates specified when labeled pests populations are significantly above economic threshold.
Thrips Soybean Banded Tobacco Armyworm Beet* Fall Southern Yellow Striped Boll Weevil Bollworm Cabbage Looper Flea Beetle Leafperforator Cutworms Saltmarsh Caterpillar Southern Garden Leafhopper Tobacco Budworm* Spider Mites Carmin Two-Spotted Plant Bugs Clouded Tarnished Stink Bug Species (except Brown) Lygus spp. Pink Bollworm	4.0 – 9.0 fl oz/A	For whitefly control, apply when adult whiteflies first appear and before the development of nymphs. Apply prior to the establishment of heavy infestations. As long as infestation continues, make repeat applications 7 days apart. The use of spray adjuvants, such as a high quality non-ionic surfactant, crop oil concentrate, or methylated seed oil is recommended to enhance coverage and plant uptake and may also improve pest control. *Because pyrethroid resistance is common for beet armyworm and tobacco budworm, consult your local or state agricultural authorities to find out if resistant pest populations are in the treatment area. If so, refer to the resistance information in the Directions for Use section of this label.
Kudzu Bug Stinkbug Brown Brown Marmorated	7.0 – 9.0 fl oz/A	
Whitefly	9.0 fl oz/A	

RESTRICTIONS:

- Do not make more than 4 applications per calendar year.
- Do not apply more than 40 fl oz per acre per calendar year.
- Do not apply more than once every 7 days.
- Do not graze livestock in treated areas or cut treated crops for feed.
- Do not apply less than 28 days before harvest (PHI = 28 days).

SOYBEANS

PEST CONTROLLED	USE RATE PER ACRE (FL.OZ/A)	APPLICATION INSTRUCTIONS
Aphid species Beetles Beanleaf Cucumber Mexican Bean Sap Blister Flea Caterpillar Saltmarsh Velvetbean Leafhoppers Looper species (except Soybean Looper) Webworm Cloverworm Grasshopper	3.0 – 9.0 fl oz/A	<p>Apply when labeled pests populations reach economic thresholds.</p> <p>Use higher rates specified when labeled pests populations are significantly above economic threshold.</p> <p>For whitefly control, apply when adult whiteflies first appear and before the development of nymphs. Apply prior to the establishment of heavy infestations. As long as infestation continues, make repeat applications 7 days apart.</p> <p>The use of spray adjuvants, such as a high quality non-ionic surfactant, crop oil concentrate, or methylated seed oil is recommended to enhance coverage and plant uptake and may also improve pest control.</p> <p>*Because pyrethroid resistance is common for beet armyworm and tobacco budworm, consult your local or state agricultural authorities to find out if resistant pest populations are in the treatment area. If so, refer to the resistance information in the Directions for Use section of this label.</p>
Corn Earworm Cutworm species Corn Rootroom (adults) Alfalfa Caterpillar Armyworm Beet* Fall Southern Yellowstriped) Japanese Beetle (adults) Imported Cabbageworm Pea Leaf Weevil Stinkbug species (except Brown) Three-cornered Alfalfa Hopper Soybean Looper (suppression only if pyrethroid resistant population) Plant Bugs European Corn Borer Tobacco Budworm* Thrips spp.	4.0 – 9.0 fl oz/A	
Lygus Species Kudzu Bug Two-spotted Spider Mite	7.0 – 9.0 fl oz/A	
Whitefly Stink Bug Brown Brown marmorated	9.0 fl oz/A	

RESTRICTIONS:

- Do not make more than 2 applications per calendar year.
- Do not apply more than 10 fl oz per acre per calendar year.
- Do not apply more than once every 7 days.
- Do not graze livestock in treated areas or cut treated crops for feed.
- Do not apply less than 30 days before harvest (PHI = 30 days).

BLUEBERRIES AND OTHER BUSH AND CANEBERRIES (Within Crop Sub-Groups 13-07A and B)

Aronia Berry; Blackberry; blueberry (highbush and lowbush); Buffalo Currant; Chilean Guava; Currant (red and black) Elderberry; European Barberry; Gooseberry; Honeysuckle, edible; Huckleberry; Jostaberry; Juneberry; Lingonberry; Loganberry; Native Currant; Raspberry (black and red); Salal; Sea Buckthorn; Wild Raspberry; cultivars, varietites and/or hybrids of these.

PEST CONTROLLED	USE RATE PER ACRE (FL.OZ/A)	APPLICATION INSTRUCTIONS
Aphid species Leafhoppers Leafrollers Orange Tortrix Root Weevils	6.0 – 9.0 fl oz/A	When treating for aphids or thrips, use higher rates specified when susceptibility of the pest or the species of the pest is unknown. Thorough crop coverage is essential for optimal control.
Beetles Japanese Sap Flea Blueberry Maggot Tarnished Plant Bug Strawberry Rootworm Cherry Fruitworm Cranberry Fruitworm Spanworm Thrips Blueberry Gall Midge Western Raspberry Fruitworm (adult) Mites Carmine Pacific Spider Two Spotted Spider Lygus spp.	9.0 fl oz/A	Make one pre-bloom application and if necessary one post-bloom application.

RESTRICTIONS:

- Do not apply more than 18 fl oz per acre per calendar year.
- Do not apply more than once every 7 days.
- Do not apply less than 3 days before harvest (PHI = 3 days).

STRAWBERRIES (Within Crop Sub-Group 13-07G)

PEST CONTROLLED	USE RATE PER ACRE (FL.OZ/A)	APPLICATION INSTRUCTIONS
Aphid species Armyworm Leafhoppers Spittlebug Flea Beetle Leafrollers Stink Bug Strawberry Clipper Strawberry Sap Beetle Vinager Flies	4.0 – 9.0 fl oz/A	Apply when pest reaches economic thresholds. When treating for aphids or thrips, use higher rates specified when susceptibility of the pest or the species of the pest is unknown. Thorough crop coverage is essential for optimal control. If ground applying, apply in minimum of 50 gallons per acre in sufficient water to provide proper coverage. If aerial applying, apply in a minimum of 5 gallons of finished spray per acre. (Aerial application is prohibited in Florida.)
Blueberry Maggot Spanworm Cherry Fruitfly Cranberry Fruitfly Japanese Beetle Oblique Banded Leafroller Plantbugs Lygus spp. Sap Beetles Thrips Whitefly Firmworm (suppression) Gypsy Moth Sparganothis Fruitworm Cranberry Tipworm Drosophila spp (including Spotted Winged Drosophila) Black Vine Weevil Strawberry Root Weevil	9.0 – 16.0 fl oz/A	

RESTRICTIONS:

- **California Specific Requirements for Strawberry Harvesters:** Harvesters and other personnel performing tasks with all-day foliage contact in treated fields within five (5) days of application must wear a long-sleeved shirt, long pants, and shows plus socks. Following treatment of strawberry fields at rates of Argyle greater than 9 fl oz/per acre, harvesters must wear gloves for five (5) days following application.
- Do not apply more than 33 fl oz per acre per calendar year.
- Do not apply more than once every 7 days.
- Do not apply less than 1 day before harvest (PHI = 1 day).

CUCURBITS (Within Crop Group 9)

Chayote (fruit); Chinese Waxgourd (Chinese preserving melon); Citron Melon; Cucumber; Gherkin; Gourd, edible; *Momordica* spp.; Muskmelon (hybrids and/or cultivars of *Cucumis melo* including True Cantaloupe, Cantaloupe, Casaba, Crenshaw Melon, Golden Pershaw Melon, Honeydew Melon, Honey Balls, Mango Melon, Persian Melon, Pineapple Melon, Santa Claus Melon, and Snake Melon); Pumpkin; Squash (summer and winter); Watermelon

PEST CONTROLLED	USE RATE PER ACRE (FL.OZ/A)	APPLICATION INSTRUCTIONS
Aphid species Armyworms Beet* Fall Southern Yellowstriped Cabbage Looper Corn Earworm Cucumber Beetles Spotted Striped Western Cutworm Grasshopper Leafhopper Melonworm Pickleworm Plant Bug Rindworm Squash Bugs Squash Vine Borer Stink Bugs Tobacco Budworm*	5.0 – 9.0 fl oz/A	<p>When treating for aphids use higher rates specified when susceptibility of the pest or the species of the pest is unknown.</p> <p>For optimal control of squash bug, make applications to newly laid eggs and nymphs.</p> <p>For melonworm, apply when foliar feeding is first noticed or when larvae are observed in the field.</p> <p>For pickleworm, apply at first bloom and make additional applications if needed.</p> <p>For whitefly control, apply when adult whiteflies first appear and before the development of nymphs. Apply prior to the establishment of heavy infestations. As long as infestation continues, make repeat applications 7 days apart.</p> <p>*Because pyrethroid resistance is common for beet armyworm and tobacco budworm, consult your local or state agricultural authorities to find out if resistant pest populations are in the treatment area. If so, refer to the resistance information in the Directions for Use section of this label.</p> <p>Thorough crop coverage is essential for optimal control. The addition of a spray adjuvant may improve spray coverage and control.</p> <p>Make one pre-bloom application and if necessary one post-bloom application.</p>
Mites Banks Grass Carmine Two Spotted Spider Lygus spp. Whitefly	7.0 – 9.0 fl oz/A	

RESTRICTIONS:

- Do not apply more than twice after bloom.
- Do not apply more than 25 fl oz per acre per calendar year.
- Do not apply more than once every 7 days.
- Do not apply less than 3 days before harvest (PHI = 3 days).

EDIBLE PODDED LEGUME VEGETABLES (Within Crop Sub-Group 6A)

Bean (*Phaseolus* spp.) includes Runner Bean, Snap Bean, Wax Bean; Bean (*Vigna* spp.) includes Asparagus Bean, Chinese Longbean, Moth Bean, Yardlong Bean; Jackbean; Pea (*Pisum* spp.) includes Dwarf Pea, Edible-Pod Pea, Snow Pea, Sugar Snap Pea; Pigeon Pea; Soybean (immature seed); Sword Bean.

SUCCULENT SHELLED PEAS AND BEANS (Within Crop Sub-Group 6B)

Bean (*Phaseolus* spp.) includes Lima Bean (green); Broad Bean (succulent); Bean (*Vigna* spp.) includes Blackeyed Pea, Cowpea, Southern Pea); Pea (*Pisum* spp.) includes English Pea, Garden Pea, Green Pea; Pigeon Pea.

PEST CONTROLLED	USE RATE PER ACRE (FL.OZ/A)	APPLICATION INSTRUCTIONS
Flea Beetle Leafhoppers Alfalfa Caterpillar Aphid species Armyworms Beet* Fall Southern Yellowstriped Beetles Bean Leaf Cucumber Japanese (Adult) Mexican Bean Sap Plant Bugs Stink Bugs Tarnished Plant Bugs Cloverworm Corn Rootworm (adult) European Corn Borer Imported Cabbageworm Leafminers Pea Leaf Weevil Saltmarsh Caterpillar Thrips Tobacco Budworm Webworm Western Bean Cutworm Loopers Corn Earworm Cutworm	4.0 – 9.0 fl oz/A	<p>When treating for aphids or thrips use higher rates specified when susceptibility of the pest or the species of the pest is unknown.</p> <p>For whitefly control, apply when adult whiteflies first appear and before the development of nymphs. Apply prior to the establishment of heavy infestations. As long as infestation continues, make repeat applications 7 days apart.</p> <p>*Because pyrethroid resistance is common for beet armyworm and tobacco budworm, consult your local or state agricultural authorities to find out if resistant pest populations are in the treatment area. If so, refer to the resistance information in the Directions for Use section of this label.</p> <p>Thorough crop coverage is essential for optimal control.</p>
Mites Banks Grass Carmine Mite Two Spotted Spider Lygus spp. Whitefly	7.0 – 9.0 fl oz/A	

RESTRICTIONS:

- Do not apply more than 17 fl oz per acre per calendar year to peas or succulent shelled beans (within Crop Sub-Group 6B)
- Do not apply more than 25 fl oz per acre per calendar year to edible podded legume beans (within Crop Sub-Group 6A)
- Do not apply more than once every 7 days.
- Do not apply less than 7 days before harvest (PHI = 7 days).

EGGPLANT (Within Crop Sub-Groups 8-10B and 8-10C)
 African Eggplant; Eggplant; Pea Eggplant; Scarlet Eggplant; and cultivars/hybrids of these

PEST CONTROLLED	USE RATE PER ACRE (FL.OZ/A)	APPLICATION INSTRUCTIONS
Aphids Armyworms Beet* Fall Southern Yellowstriped Cabbage Looper Colorado Potato Beetle Corn Earworm Cucumber Beetle Cutworms European Corn Borer Flea Beetle Leafhoppers Leafminers Loopers Pepper Weevil Plant Bug Stink Bug Thrips Tomato Pinworm Tomato Hornworm Vegetable Leafminer	4.0 – 9.0 fl oz/A	<p>When treating for aphids or thrips use higher rates specified when susceptibility of the pest or the species of the pest is unknown.</p> <p>For aphid control apply when aphid thresholds are reached.</p> <p>For control of thrips apply then thrips first appear.</p> <p>For pepper weevil control apply when adult pepper weevils first appear and at the same time that flower buds and/or fruit are present.</p> <p>For whitefly control, apply when adult whiteflies first appear and before the development of nymphs. Apply prior to the establishment of heavy infestations. As long as infestation continues, make repeat applications 7 days apart.</p> <p>*Because pyrethroid resistance is common for beet armyworm, consult your local or state agricultural authorities to find out if resistant pest populations are in the treatment area. If so, refer to the resistance information in the Directions for Use section of this label.</p> <p>Thorough crop coverage is essential for optimal control.</p>
Mites Banks Grass Broad Carmine Two Spotted Spider Lygus spp. Whitefly	7.0 – 9.0 fl oz/A	

RESTRICTIONS:

- Do not apply more than 17 fl oz per acre per calendar year
- Do not apply more than once every 7 days.
- Do not apply less than 7 days before harvest (PHI = 7 days).

PEPPERS (Within Crop Sub-Groups 8-10B and 8-10C)
 Peppers (bell and non-bell); Pepino; Groundcherry; and cultivars/hybrids of these

PEST CONTROLLED	USE RATE PER ACRE (FL.OZ/A)	APPLICATION INSTRUCTIONS
Aphids Armyworms Beet* Fall Southern Yellowstriped Cabbage Looper Colorado Potato Beetle Corn Earworm Cucumber Beetle Cutworms European Corn Borer Flea Beetle Leafhoppers Leafminers Loopers Pepper Weevil Plant Bug Stink Bug Thrips Tomato Pinworm Tomato Hornworm Vegetable Leafminer	4.0 – 9.0 fl oz/A	<p>When treating for aphids or thrips use higher rates specified when susceptibility of the pest or the species of the pest is unknown.</p> <p>For aphid control apply when aphid thresholds are reached.</p> <p>For control of thrips apply then thrips first appear.</p> <p>For pepper weevil control apply when adult pepper weevils first appear and at the same time that flower buds and/or fruit are present.</p> <p>For whitefly control, apply when adult whiteflies first appear and before the development of nymphs. Apply prior to the establishment of heavy infestations. As long as infestation continues, make repeat applications 7 days apart.</p> <p>*Because pyrethroid resistance is common for beet armyworm, consult your local or state agricultural authorities to find out if resistant pest populations are in the treatment area. If so, refer to the resistance information in the Directions for Use section of this label.</p> <p>Thorough crop coverage is essential for optimal control.</p>
Mites Banks Grass Broad Carmine Two Spotted Spider Lygus spp. Whitefly	7.0 – 9.0 fl oz/A	

RESTRICTIONS:

- Do not apply more than 17 fl oz per acre per calendar year
- Do not apply more than once every 7 days.
- Do not apply less than 7 days before harvest (PHI = 7 days).

TOMATO (Within Crop Sub-Group 8-10A)

Bush Tomato; Currant Tomato; Tomatillo, Tomato, Tree Tomato; and cultivars/hybrids of these

PEST CONTROLLED	USE RATE PER ACRE (FL.OZ/A)	APPLICATION INSTRUCTIONS
<p>Aphids Armyworms Beet* Fall Southern Yellowstriped Bean Leaf Beetle Cabbageworm Cloverworm Corn Earworm Corn Rootworm Cucumber Beetle Cutworms Diamondback Moth European Corn Borer Flea Beetle Fleahopper Grasshopper Japanese Beetle (adult) Leafhoppers Loopers Melonworm Pea Weevil Pickleworm Plant Bug Rindworm Salt Marsh Caterpillar Sap Beetle Seedpod Weevil Squash Bugs Stink Bugs Tobacco Budworm* Tarnished Plant Bug Thrips</p>	<p>4.0 – 7.0 fl oz/A</p>	<p>When treating for aphids or thrips use higher rates specified when susceptibility of the pest or the species of the pest is unknown.</p> <p>For aphid control apply when aphid thresholds are reached.</p> <p>For control of thrips apply then thrips first appear.</p> <p>For pepper weevil control apply when adult pepper weevils first appear and at the same time that flower buds and/or fruit are present.</p> <p>For whitefly control, apply when adult whiteflies first appear and before the development of nymphs. Apply prior to the establishment of heavy infestations. As long as infestation continues, make repeat applications 7 days apart.</p> <p>*Because pyrethroid resistance is common for beet armyworm and tobacco budworm, consult your local or state agricultural authorities to find out if resistant pest populations are in the treatment area. If so, refer to the resistance information in the Directions for Use section of this label.</p> <p>Thorough crop coverage is essential for optimal control.</p>
<p>Mites Two Spotted Spider Lygus spp. Whitefly</p>	<p>7.0 – 9.0 fl oz/A</p>	

RESTRICTIONS:

- Do not apply more than 17 fl oz per acre per calendar year
- Do not apply more than once every 7 days.
- Do not apply less than 7 days before harvest (PHI = 7 days).

HEAD AND STEM BRASSIC (Within Crop Sub-Group 5A)

Broccoli; Brussels Sprouts; Cabbage; Cauliflower; Cavalo Broccolo; Chinese Broccoli (gai lon);
 Chinese Cabbage (napa); Chinese Mustard (gai choy); Kohirabi

PEST CONTROLLED	USE RATE PER ACRE (FL.OZ/A)	APPLICATION INSTRUCTIONS
Aphids Armyworms Beet* Fall Southern Yellowstriped Cabbage Looper Corn Earworm Crickets Cucumber Beetle Cutworms Diamondback Moth Flea Beetle Ground Beetle Imported Cabbageworm Leafhoppers Leafminers Loopers Saltmarsh Caterpillar Stink Bugs Thrips Tobacco Budworm* Wireworm (adults)	4.0 – 9.0 fl oz/A	<p>When treating for aphids or thrips use higher rates specified when susceptibility of the pest or the species of the pest is unknown.</p> <p>For aphid control apply when aphid thresholds are reached.</p> <p>For control of thrips apply then thrips first appear.</p> <p>For pepper weevil control apply when adult pepper weevils first appear and at the same time that flower buds and/or fruit are present.</p> <p>For whitefly control, apply when adult whiteflies first appear and before the development of nymphs. Apply prior to the establishment of heavy infestations. As long as infestation continues, make repeat applications 7 days apart.</p> <p>For control of Swede Midge use the highest label rate per acre.</p> <p>*Because pyrethroid resistance is common for beet armyworm and tobacco budworm, consult your local or state agricultural authorities to find out if resistant pest populations are in the treatment area. If so, refer to the resistance information in the Directions for Use section of this label.</p> <p>Thorough crop coverage is essential for optimal control.</p>
Mites Banks Grass Broad Carmine Two Spotted Spider Lygus spp. Whitefly Swede Midge	7.0 – 9.0 fl oz/A	

RESTRICTIONS:

- Do not apply more than 42 fl oz per acre per calendar year
- Do not apply more than once every 7 days.
- Do not apply less than 7 days before harvest (PHI = 7 days).

LEAFY COLE CROPS (Within Crop Sub-Group 5B)

Broccoli Raab (rapini); Chinese Cabbage (boy choy); Collards; Kale; Mizuna; Mustard Greens;
Mustard Spinach; Rape Greens

PEST CONTROLLED	USE RATE PER ACRE (FL.OZ/A)	APPLICATION INSTRUCTIONS
Aphids Armyworms Beet* Fall Southern Yellowstriped Corn Earworm Crickets Cucumber Beetle Cutworms Diamondback Moth Flea Beetle Grasshoppers Ground Beetle Imported Cabbageworm Japanese Beetles (adults) Leafhoppers Loopers Saltmarsh Caterpillar Stink Bugs Thrips Tobacco Budworm* Wireworm (adults)	4.0 – 9.0 fl oz/A	<p>When treating for aphids or thrips use higher rates specified when susceptibility of the pest or the species of the pest is unknown.</p> <p>For control of thrips apply then thrips first appear.</p> <p>For whitefly control, apply when adult whiteflies first appear and before the development of nymphs. Apply prior to the establishment of heavy infestations. As long as infestation continues, make repeat applications 7 days apart.</p> <p>For control of Swede Midge use the highest label rate per acre.</p> <p>*Because pyrethroid resistance is common for beet armyworm and tobacco budworm, consult your local or state agricultural authorities to find out if resistant pest populations are in the treatment area. If so, refer to the resistance information in the Directions for Use section of this label.</p> <p>Thorough crop coverage is essential for optimal control. Apply in a minimum of 5 gallons of water per acre by air, or a minimum of 30 gallons of water per acre by ground.</p> <p>When applied by air, 1 to 2 quarts of emulsified oil may be substituted for 1 to 2 quarts of water in the finished spray.</p>
Mites Banks Grass Broad Carmine Two Spotted Spider Lygus spp. Whitefly Swede Midge	7.0 – 9.0 fl oz/A	

RESTRICTIONS:

- Do not apply more than 34 fl oz per acre per calendar year
- Do not apply more than once every 7 days.
- Do not apply less than 7 days before harvest (PHI = 7 days).

HEAD LETTUCE (Within Crop Sub-Group 4A)

PEST CONTROLLED	USE RATE PER ACRE (FL.OZ/A)	APPLICATION INSTRUCTIONS
Aphids Armyworms Beet* Fall Southern Yellowstriped Cabbage Maggot Corn Earworm Cucumber Beetle Cutworms Diamondback Moth Flea Beetle Grasshoppers Imported Cabbageworm Leafhoppers Leafminers Loopers Saltmarsh Caterpillar Stink Bugs Thrips Tobacco Budworm* Wireworm (adults)	4.0 – 9.0 fl oz/A	<p>When treating for aphids or thrips use higher rates specified when susceptibility of the pest or the species of the pest is unknown.</p> <p>For control of thrips apply then thrips first appear.</p> <p>For whitefly control, apply when adult whiteflies first appear and before the development of nymphs. Apply prior to the establishment of heavy infestations. As long as infestation continues, make repeat applications 7 days apart.</p> <p>*Because pyrethroid resistance is common for beet armyworm and tobacco budworm, consult your local or state agricultural authorities to find out if resistant pest populations are in the treatment area. If so, refer to the resistance information in the Directions for Use section of this label.</p> <p>Thorough crop coverage is essential for optimal control.</p>
Mites Carmine Lygus spp. Whitefly	7.0 – 9.0 fl oz/A	

RESTRICTIONS:

- Do not apply more than 42 fl oz per acre per calendar year
- Do not apply more than once every 7 days.
- Do not apply less than 7 days before harvest (PHI = 7 days).

SPINACH (Within Crop Sub-Group 4A)

PEST CONTROLLED	USE RATE PER ACRE (FL.OZ/A)	APPLICATION INSTRUCTIONS
Aphids Armyworms Beet* Fall Southern Yellowstriped Colorado Potato Beetle Corn Earworm Cucumber Beetle Cutworms European Corn Borer Flea Beetle Leafhoppers Leafminers Loopers Pepper Weevil Thrips Tomato Hornworm Tomato Pinworm	4.0 – 9.0 fl oz/A	<p>When treating for aphids or thrips use higher rates specified when susceptibility of the pest or the species of the pest is unknown.</p> <p>For control of thrips apply then thrips first appear.</p> <p>For whitefly control, apply when adult whiteflies first appear and before the development of nymphs. Apply prior to the establishment of heavy infestations. As long as infestation continues, make repeat applications 7 days apart.</p> <p>*Because pyrethroid resistance is common for beet armyworm, consult your local or state agricultural authorities to find out if resistant pest populations are in the treatment area. If so, refer to the resistance information in the Directions for Use section of this label.</p> <p>Thorough crop coverage is essential for optimal control.</p>
Mites Carmine Banks Grass Broad Two Spotted Spider Lygus spp. Whitefly	7.0 – 9.0 fl oz/A	

RESTRICTIONS:

- Do not apply more than 34 fl oz per acre per calendar year
- Do not apply more than once every 7 days.
- Do not apply less than 40 days before harvest (PHI = 40 days).

SWEET CORN (Foliar Use)

PEST CONTROLLED	USE RATE PER ACRE (FL.OZ/A)	APPLICATION INSTRUCTIONS
Aphids Armyworms Beet* Fall Southern True Yellowstriped Cereal Leaf Beetle Chinch Bug Common Stalk Borer Corn Earworm Corn Rootworm (adult) Corn Silkfly Cucumber Beetle Cutworm Flea Beetle Grasshoppers Greenbug Japanese Beetle (adult) Leafhoppers Sap Beetle Southern Corn Leaf Beetle Southwestern Corn Borer Stink Bugs Tarnished Plant Bug Thrips Webworms	4.0 – 9.0 fl oz/A	<p>Use the higher rates if heavier insect pressure is noted and/or corn is under heat or drought stress.</p> <p>When treating for aphids or thrips use higher rates specified when susceptibility of the pest or the species of the pest is unknown.</p> <p>For Southwestern corn borer and European corn borer apply twice, with the first application at or shortly before egg hatch.</p> <p>For ear-attacking pests apply just before silking.</p> <p>For other insects, apply when insects first appear and repeat as needed.</p> <p>*Because pyrethroid resistance is common for beet armyworm, consult your local or state agricultural authorities to find out if resistant pest populations are in the treatment area. If so, refer to the resistance information in the Directions for Use section of this label.</p> <p>Thorough crop coverage is essential for optimal control.</p> <p>When applied by air, 1 to 2 quarts of emulsified oil may be substituted for 1 to 2 quarts of water in the finished spray.</p>

RESTRICTIONS:

- Do not graze livestock in treated areas or cut treated crop for feed within 1 day of the last application.
- Do not apply by ultra low volume (ULV).
- If heavy rainfall is imminent, do not apply.
- Do not apply more than 17 fl oz per acre per calendar year.
- Do not apply more than once every 7 days.
- Do not apply less than 7 days before harvest (PHI = 7 days) if use rate is greater than 7.0 fl oz/A.
- Do not apply less than 1 day before harvest (PHI = 1 day) if use rate is equal to or less than 7.0 fl oz/A.

TREE NUTS (Within Crop Group 14) and PISTACHIO

Almond; Beech Nut; Brazil Nut; Butternut; Cashew; Chestnut; Chinquapin; Filbert (Hazelnut); Hickory Nut; Macadamia Nut (Bush Nut); Pecan; Walnut (black and English (Persian)); Pistachio

PEST CONTROLLED	USE RATE PER ACRE (FL.OZ/A)	APPLICATION INSTRUCTIONS
Aphids Leaffooted Bugs Leafhoppers Pecan Phylloxera Plant Bugs Stink Bugs	5.0 – 16.0 fl oz/A	<p>If under heavy pressure by any of the pests listed or dense foliage is present, use the high rate listed in the range.</p> <p>When treating for aphids use higher rates specified when susceptibility of the pest or the species of the pest is unknown. Use higher rate when treating for black pecan aphid.</p> <p>When controlling pecan weevil, add a horticultural oil to enhance control</p>
Codling Moth Filbertworm Hickory Shuckworm Navel Orangeworm Oblique Banded Leafroller Peach Twig Borer Pecan Nut Casebearer Oriental Fruit Moth Pecan Weevil Red Humped Caterpillar Glassywinged Sharpshooter	9.0 – 16.0 fl oz/A	<p>When controlling oriental fruit moth and/or peach twig borer, apply with oil during the delayed-dormant period prior to bud break. Follow with in-season applications at moth flights determined using degree day models.</p> <p>For codling moth control, make in-season applications at moth flights determined using degree day models.</p> <p>For walnut husk fly apply when adult egg producing (gravid) females are first observed.</p> <p>For Gills' mealybug control, apply in early to mid-June when crawlers first appear. For best results use a horticultural oil or penetrating adjuvant (no stickers) to increase pest control.</p>
Walnut Husk Fly Gills' Mealybug	16.0 fl oz/A	<p>Thorough crop coverage is essential for optimal control. Spray every row. If ground applying, apply as a dilute in a minimum of 200 gallons per acre or as a concentrate in minimum of 50 gallons per acre in sufficient water to provide proper coverage. If aerial applying, apply in a minimum of 10 gallons of finished spray per acre.</p> <p>Degree day models in combinations with pheromone traps can be used to determine the timing and interval of applications. Additional information may be obtained from your local Crop Advisor, Extension Service representative.</p>

RESTRICTIONS:

- Do not apply more than 42 fl oz per acre per calendar year
- Do not apply more than once every 15 days.
- Do not apply less than 21 days before harvest (PHI = 21 days) for Pecans.
- Do not apply less than 14 days before harvest (PHI = 14 days) for all other tree nut crops.

STORAGE AND DISPOSAL

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

STORAGE

Do not store in or around the home. Store unused product in a cool, ventilated, dry, locked area. Store above 40° F. Do not allow prolonged storage in areas where temperatures frequently exceed 115° F (46° C). NEVER TRANSFER THIS PRODUCT TO ANOTHER CONTAINER FOR STORAGE.

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 of the nearest EPA Regional Office for guidance. Contamination with this product will render water, food or feed unfit for human or animal consumption. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING Nonfillable container. Do not reuse or refill this container.

[For containers 5 gallons or smaller]. 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.

[For containers larger than 5 gallon]. 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. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after flow begins to drip.

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.

LIMITATION OF WARRANTY AND LIABILITY

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 United Phosphorus, Inc. or Seller. Handling, storage, and use of the product by Buyer or User are beyond the control of United Phosphorus, Inc. and Seller. To the extent with applicable law all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold United Phosphorus, Inc. and Seller harmless for any claims relating to such factors.

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