



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

EPA Reg. Number:

279-9660

Date of Issuance:

5/17/22

NOTICE OF PESTICIDE:

Registration
 Reregistration
 (under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

E2Y45 70WG Insect Control

Name and Address of Registrant (include ZIP Code):

Jake Vukich
 Product Registration Manager
 FMC Corporation
 2929 Walnut Street
 Philadelphia, PA 19104

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:

Venus Eagle, Product Manager 01
 Invertebrate and Vertebrate Branch 3
 Registration Division, Office of Pesticide Programs

Date:

5/17/22

2. You are required to comply with the data requirements described in the DCI identified below:
 - a. Chlorantraniliprole GDCI-090100-1895

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI 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. 279-9660.”
4. Submit one copy of the final printed label for the record before you release the product for shipment.
5. The data requirements for storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) in a polyethylene bag are not satisfied. A one year study (along with the market names and complete composition of the polyethylene bag) is required to satisfy these data requirements. You have 18 months from the date of registration to provide these data.

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 3/24/2022

If you have any questions, please contact Jasmin Jackson by phone at 202-566-2797, or via email at Jackson.Jasmin@epa.gov.

Enclosure: Stamped Label

E2Y45 70WG Insect Control

[ALTERNATE BRAND NAME: Altacor® eVo insect control]

WITH THE ACTIVE INGREDIENT RYNAXYPYR®

E2Y45 70WG Insect Control is a water dispersible granule.

<i>Active Ingredient</i>	<i>By Weight</i>
Chlorantraniliprole	
3-Bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-1H-pyrazole-5-carboxamide	70.0%
Other Ingredients	30.0%
TOTAL	100.0%

EPA Reg. No. 279-xxxx

EPA Est. No. _____

Nonrefillable Container

Net: 18 ounces or 45 ounces

OR

Refillable Container

Net: _____

Not for sale, sale into, distribution and/or use in Nassau, Suffolk, Kings, and Queens counties of New York state.

KEEP OUT OF REACH OF CHILDREN

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

For questions regarding emergency medical treatment, you may contact 1-800-331-3148 for information.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

When used as directed this product does not present a hazard to humans or domestic animals.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

Long-sleeved shirt and long pants.

Shoes plus socks.

After the product has been diluted in accordance with label directions for use, shirt, pants, socks, and shoes are sufficient Personal Protective Equipment. Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

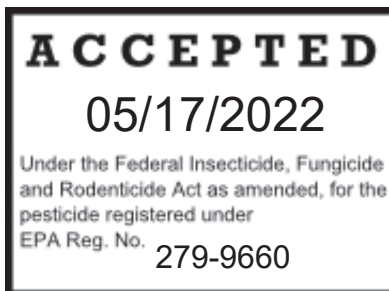
USER SAFETY RECOMMENDATIONS

USERS SHOULD: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Sold By



FMC Corporation
2929 Walnut Street
Philadelphia, PA 19104



ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic invertebrates, oysters, and shrimp. Do not apply directly to water. Drift and runoff may be hazardous to aquatic organisms in water adjacent to use sites.

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. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of chlorantraniliprole from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

Ground Water Advisory:

This chemical 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.

DIRECTIONS FOR USE

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

E2Y45 70WG Insect Control must be used only in accordance with the directions on this label, or as otherwise permitted by FIFRA. Always read the entire label, including the Limitation of Warranty and Liability.

E2Y45 70WG Insect Control may be used on crops on this label that are grown for seed production.

RESTRICTIONS

- Do not treat plants grown for transplanting. Not for use in nurseries, plant propagation houses, or greenhouses by commercial grower or any other transplant producers on plants being grown for transplanting unless otherwise specified.
- This product is for agricultural use only.
- Not for use on ornamental plants or plants being grown for ornamental purposes.
- Not for residential use.
- Do not use in greenhouses.
- Do not apply E2Y45 70WG Insect Control through any irrigation system unless specified in this label or in EPA approved supplemental labeling.

For New York State Only:

The following restrictions are required to permit use of E2Y45 70WG Insect Control in the State of New York:

- This product may not be applied within 100 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch).
- Aerial application of this product is prohibited.
- Not for sale, sale into, distribution and/or use in Nassau, Suffolk, Kings, and Queens counties of New York state.

AGRICULTURAL USE REQUIREMENTS

E2Y45 70WG Insect Control must be used only in accordance with its labeling and with the Worker Protection 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 the label about personal protective equipment, restricted-entry interval, and notification to workers (as applicable).

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 State or Tribal agency responsible for pesticide regulation.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 hours.

For early entry into 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, wear:

- Long-sleeved shirt and long pants
- Shoes plus socks

E2Y45 70WG Insect Control is a water dispersible granule that can be applied as: an in-furrow spray at planting, transplant water treatment, hill drench at planting, surface band at planting, soil shank injection at planting, drip chemigation, or foliar spray (including overhead sprinkler chemigation on certain crops as specified on this label) to control listed insects. Not all application methods are allowed on all crops; see specific crop sections of this label for which application methods may be used. E2Y45 70WG Insect Control is mixed with water for application. E2Y45 70WG Insect Control may be used on crops on this label grown for seed production.

E2Y45 70WG Insect Control is a member of the anthranilic diamide class of insecticides with a mode of action acting on insect ryanodine receptors. Although E2Y45 70WG Insect Control has contact activity, it is most effective through ingestion of treated plant material. After exposure to E2Y45 70WG Insect Control, affected insects will rapidly stop feeding, become paralyzed, and typically die within 1 - 3 days. Time applications to the most susceptible insect pest stage, typically at egg lay, egg hatch and/or newly hatched larvae, before populations reach damaging levels. If possible, make applications at or before egg deposition to be most effective in minimizing damage levels caused by insect pests. When pest populations are high, use the highest listed application rate for that pest.

INTEGRATED PEST MANAGEMENT

FMC supports the use of Integrated Pest Management (IPM) programs to control pests. This product may be used as part of an IPM program, which can include biological, cultural, and genetic practices, aimed at preventing economic pest damage. IPM principles and practices include field scouting or other detection methods, correct target pest identification, population monitoring, rotation of insecticides with different modes-of-action, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop or site systems in your area.

SCOUTING

Monitor insect populations to determine whether or not there is a need for application of E2Y45 70WG Insect Control based on locally determined economic thresholds and pest management guidelines. More than one treatment of E2Y45 70WG Insect Control may be required to control a population of pests.

INSECT RESISTANCE MANAGEMENT

For resistance management, E2Y45 70WG Insect Control is a Group 28 Insecticide. Repeated and exclusive use of E2Y45 70WG Insect Control (active ingredient chlorantraniliprole, belonging to the anthranilic diamide class of chemistry), or other Group 28 Insecticide may lead to the buildup of resistant strains of insects in some crops.

Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, this product may be used as part of resistance management strategies established for the use area. These strategies may include incorporation of cultural and biological control practices, alternation of mode-of-action classes of insecticides on succeeding generations and targeting the most susceptible life stage. Consult your local or state agricultural authorities for details.

Unless directed otherwise in the specific crop/pest sections of this label, the best practices are to follow these instructions to delay the development of insecticide resistance:

- Avoid using the same mode of action (same IRAC group number) on consecutive generations of insect pests.
- Apply E2Y45 70WG Insect Control or other Group 28 insecticides using a “treatment window” approach to avoid exposure of successive insect pest generations to the same mode of action.
- A “treatment window” is defined as the period of residual activity provided by single or sequential applications of products with the same mode of action. This “treatment window” should not exceed approximately the length of one generation of the target pest, or about 30 days.
- Within the “Group 28 treatment window”, make no more than 2 successive applications of E2Y45 70WG Insect Control or other Group 28 insecticides, unless otherwise directed in the specific crop/pest sections of this label.
- Following a “Group 28 treatment window”, rotate to a treatment window of effective products with a different mode of action. This “Non-Group 28 Window” should approximate the duration of one generation of the target pest, or about 30 days.
- The total exposure of all Group 28 products applied throughout the crop cycle (from seedling to harvest) should not exceed approximately 50% of the crop cycle or 50% of the total number of insecticide applications targeted for the same pest species.
- For short cycle crops (< 50 days), the duration of the crop cycle may be considered as the Group 28 “treatment window” as long as no Group 28 insecticides are used during the next crop cycle at the same growing location.
- Avoid using less than the labeled rates of E2Y45 70WG Insect Control when applied alone or in tank mixtures.
- Target the most susceptible insect life stages, whenever possible.
- Monitor insect populations for product effectiveness.

If resistance to E2Y45 70WG Insect Control develops in your area, E2Y45 70WG Insect Control or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternate method of control for your area. For additional information on insect resistance monitoring, visit the Insecticide Resistance Action Committee (IRAC) on the web at <http://www.ircac-online.org>.

APPLICATION

Apply at the specified rates when insect populations reach locally determined economic action thresholds. Consult the cooperative extension service, professional consultants or other qualified authorities to determine appropriate threshold levels for treatment in your area.

Apply follow-up treatments of E2Y45 70WG Insect Control, as specified, to keep pest populations within threshold limits. Refer to the Resistance Management section of this label for further guidance on follow-up treatments. See individual crop sections of this label for specific minimum spray intervals.

Use sufficient water to obtain thorough, uniform coverage. Because E2Y45 70WG Insect Control is most effective through ingestion of treated plant material, thorough spray coverage is essential for optimum control of targeted pest insects. Using increased water volumes will typically result in better spray coverage, especially under adverse conditions such as dry, hot weather or dense plant foliage.

E2Y45 70WG Insect Control can be applied by: ground (including an in-furrow spray at planting, transplant water treatment, hill drench at planting, surface band at planting, soil shank injection at planting, drip chemigation, or foliar), or aerial application equipment. Not all application methods are allowed on all crops; see specific crop sections of this label for which application methods may be used. E2Y45 70WG Insect Control can be applied via overhead sprinkler chemigation systems on some crops; see specific crop sections of this label for crops where overhead sprinkler chemigation can be used.

For ground application use these directions unless otherwise specified in separate crop section of this label or EPA-approved supplemental labeling: use a minimum of 30 gallons per acre (gpa) of water.

The highest labeled rate for a specified pest may be necessary when aerial applications are made. For aerial application use the following directions unless otherwise specified in this label or in EPA-approved supplemental labeling: use a minimum of 10 gallons per acre (gpa) of water. The aerial application 10 gpa minimum may be reduced as specified for the following crops:

Crop/Crop Group	AERIAL APPLICATION: Minimum Gallons per Acre (GPA) of Water
Cereals, Corn, Cotton, Grasses, Mint, Non-Grass Animal Feeds, Peanuts, Oilseeds, Rice, Soybeans, Sugarcane, Teff, Tobacco, Quinoa	2 GPA
Asparagus, Onions, Brassicas, Cucurbits, Fruiting Vegetables, Herbs, Leafy Vegetables, Legume Vegetables, Root and Tuber Vegetables, Potatoes, Spices, Cranberry	5 GPA

Use of Adjuvants - In some situations where coverage is difficult to achieve such as closed canopy, dense foliage, plants with waxy leaf surfaces, or less than optimum application equipment, an adjuvant may improve performance. Use only adjuvant products that are labeled for agricultural use and follow the directions on the manufacturer's label. Always conduct a premix test for compatibility. Use an adjuvant that does not affect foliage and/or fruit finish. Refer to specific crop sections of this label for additional adjuvant guidance.

SPRAY PREPARATION

Spray equipment must be clean and free of previous pesticide deposits before applying E2Y45 70WG Insect Control. Fill spray tank 1/4 to 1/2 full of water. Make sure to use a well calibrated measuring device that is appropriate for the low doses that may be required with this high concentration product to avoid under or overdosing. Add E2Y45 70WG Insect Control directly to spray tank. Mix thoroughly to fully disperse the insecticide, once dispersed continued agitation is required. Use mechanical or hydraulic means; do not use air agitation. Do not store spray mix solutions overnight in spray tank. Observe the most restrictive of the labeling limitations and precautions of all products used in mixtures.

TANK MIXTURES

This product can be mixed with pesticide products that are labeled for use on the same crops as E2Y45 70WG Insect Control. Do not exceed labeled dosage rates. This product cannot be mixed with any product containing a label prohibition against such mixing.

E2Y45 70WG Insect Control may be mixed with certain liquid fertilizers for at-plant soil applications. Do not mix E2Y45 70WG Insect Control directly with pure liquid fertilizers.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Before using a tank mix for the first time, always determine the compatibility of E2Y45 70WG Insect Control with the tank mixtures by using a jar test.

Compatibility -Since formulations may be changed and new ones introduced, premix a small quantity of a desired tank mix and observe for possible adverse changes (settling out, flocculation, etc.). Low spray volumes (i.e., 2-5 gallons of water), and tank mixtures of more than two products, can increase the chances of incompatible spray mixtures.

Steps to conduct a jar test to determine physical tank mix compatibility of E2Y45 70WG Insect Control with other products:

- Add clean water to jar proportional to the planned water volume that will be used in the spray tank (a jar size of 16 oz is acceptable).
- Using the most restrictive PPE of the products to be tested, mix proper proportions of E2Y45 70WG Insect Control and desired tank mix partner(s) as will be present in the spray tank, add one product at a time following the sequence of addition according to formulation type provided in this label.
- Seal and shake mixture after each product is added.
- Allow to stand for 1 hour.
- View jar to determine if settling, flocculation, crystallization or any other undesirable changes have happened.
- If none of the above is observed or the solution can be easily remixed after shaking, the mixture is compatible with E2Y45 70WG Insect Control.
- If the tank mix is not compatible, a higher water volume, reduced rate of the tank mix partner(s), reduced number of tank mix partners or a compatibility agent may be needed.

Tank Mixtures and Crop Safety - Crop varieties can differ in their responsiveness to tank mixtures, and environmental conditions can have an influence on product performance and crop response. It is not possible to test E2Y45 70WG Insect Control alone or with all possible tank mix combinations on all varieties under all environmental conditions. When considering the use of a tank mixture on a labeled crop without prior experience, or which is not specifically described on E2Y45 70WG Insect Control product labeling or in other FMC product use instruction, it is important to check crop safety first. To test for crop safety prepare a small volume of the intended tank mixture, apply it to an area of the target crop as directed by both this and the tank mix partner product labels, and observe the treated crop to ensure that a phytotoxic response does not occur.

Use of E2Y45 70WG Insect Control in any tank mixture applications that is not specifically described on E2Y45 70WG Insect Control product labeling or in other FMC product use instructions, could potentially result in crop injury. Follow the precautions on this label and on the label for any other product to be used in tank mixtures before making such applications to your crops. FMC will not be responsible for any crop injury arising from the use of a tank mixture that is not specifically described on E2Y45 70WG Insect Control product labeling or in other FMC product use instruction.

Tank Mixing Sequence -Fill spray tank 1/4 to 1/2 full of water. While agitating, add the different formulation types in the sequence indicated below*. Allow time for complete mixing and dispersion after addition of each product before adding the next product.

1. Water soluble bag (WSB)
2. Water soluble granules (SG)
3. E2Y45 70WG Insect Control and other water dispersible granules (WG, XP, DF)
4. Wettable powders (WP)
5. Water based suspension concentrates (SC)
6. Water soluble concentrates (SL)
7. Suspoemulsions (SE)
8. Oil based suspension concentrates (OD)
9. Emulsifiable concentrates (EC)
10. Surfactants, oils adjuvants
11. Soluble fertilizers
12. Drift retardants

* Unless otherwise specified by manufacturer directions for use or by local experience.

SPRAY TANK CLEANOUT

Prior to application, start with clean, well maintained application equipment. Immediately following application, thoroughly clean all spray equipment to reduce the risk of forming hardened deposits which might become difficult to remove.

Drain spray equipment. Thoroughly rinse sprayer and flush hoses, boom and nozzles with clean water. Clean all other associated application equipment. Take all necessary safety precautions when cleaning equipment. Do not clean near wells, water sources or desirable vegetation. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

SPRAY DRIFT MANAGEMENT

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

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

IMPORTANCE OF DROPLET SIZE

The most effective drift management strategy is to apply the largest droplets which are consistent with pest control objectives. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly or under unfavorable environmental conditions. A droplet size classification system describes the range of droplet sizes produced by spray nozzles. The American Society of Agricultural and Biological Engineers (ASABE) provide a Standard that describes droplet size spectrum categories defined by a number of reference nozzles (fine, coarse, etc.). Droplet spectra resulting from the use of a specific nozzle may also be described in terms of volume mean diameter (VMD). Coarser droplet size spectra have larger VMD's and lower drift potential.

CONTROLLING DROPLET SIZE - GROUND APPLICATION

Nozzle Type - Select a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. The use of low-drift nozzles will reduce drift potential.

Pressure - The lowest spray pressures recommended for the nozzle produce the largest droplets. Higher pressure reduces droplet size and does not improve canopy penetration. When higher flow rates are needed, using a higher-capacity nozzle instead of increasing pressure results in the coarsest droplet spectrum.

Flow Rate/Orifice Size - Using the highest flow rate nozzles (largest orifice) that are consistent with pest control objectives reduces the potential for spray drift. Nozzles with higher rated flows produce coarser droplet spectra.

CONTROLLING DROPLET SIZE - AIRCRAFT

Number of Nozzles - Using the minimum number of nozzles with the highest flow rate that provide uniform coverage will produce a coarser droplet spectrum.

Nozzle Orientation - Orienting nozzles in a manner that minimizes the effects of air shear will produce the coarsest droplet spectra. For some nozzles such as solid stream, pointing the nozzles straight back parallel to the airstream will produce a coarser droplet spectrum than other orientations.

Nozzle Type - Solid stream, or other low drift nozzles produce the coarsest droplet spectra. Do not apply as a ULV application.

BOOM LENGTH AND HEIGHT

Boom Length (aircraft) - The boom length must not exceed 3/4 of the wing length; using shorter booms decreases drift potential. For helicopters use a boom length and position that prevents droplets from entering the rotor vortices.

Boom Height (aircraft) - Application more than 10 ft above the canopy increases the potential for spray drift. Applications made at the lowest height consistent with pest control objectives, and the safe operation of the aircraft will reduce the potential for spray drift.

Boom Height (ground) - Applications made at the lowest height consistent with pest control objectives, and that allow the applicator to keep the boom level with the application site and minimize bounce, will reduce the exposure of spray droplets to evaporation and wind and reduce spray drift potential.

WIND

Drift potential increases at wind speeds of less than 3 mph (due to variable direction and inversion potential) or more than 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. AVOID APPLICATIONS DURING GUSTY OR WINDLESS CONDITIONS. Do not make applications when wind speeds are greater than 15 mph.

Note: Local terrain can influence wind patterns. Every applicator must be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, set up equipment to produce larger droplets to reduce effects of evaporation.

SURFACE TEMPERATURE INVERSIONS

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

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

TREE AND VINE SPRAYERS

Air assisted tree and vine sprayers carry droplets into the canopy of trees and vines via a radially or laterally directed air stream.

In addition to the general drift management principles already described, the following specific practices will further reduce the potential for drift:

- Adjust deflectors and aiming devices so that spray is only directed into the canopy.
- Block off upward pointed nozzles when there is no overhanging canopy.
- Use only enough air volume to penetrate the canopy and provide good coverage.
- Movement of spray that goes beyond the edge of the cultivated area may be minimized by practices such as spraying the outside row only from outside the planting.

Drain spray equipment. Thoroughly rinse sprayer and flush hoses, boom and nozzles with clean water.

Clean all other associated application equipment. Take all necessary safety precautions when cleaning equipment. Do not clean near wells, water sources or desirable vegetation. Dispose of waste rinse water in accordance with local regulations.

AIR ASSISTED (AIRBLAST) FIELD CROP SPRAYERS

Air assisted field crop sprayers carry droplets to the target via a downward directed air stream. Some may reduce the potential for drift, but if a sprayer is unsuitable for the application and/or set up improperly, high drift potential can result. It is the responsibility of the applicator to determine that a sprayer is suitable for the intended application, is configured properly, and that drift is not occurring.

Note: Air assisted field sprayers can affect product performance by affecting spray coverage and canopy penetration. Consult the application equipment section of this label to determine if use of an air assisted sprayer is recommended.

CHEMIGATION

E2Y45 70WG Insect Control may be applied via chemigation as listed in the specific crop/pest sections of this label. The following types of irrigation equipment may be used for chemigation applications in those crops: drip (trickle), or strip tubing irrigation systems. E2Y45 70WG Insect Control can also be applied through overhead sprinkler irrigation systems, including the following; center pivot, end tow, hand move, lateral move, side roll, solid set and wheel line overhead sprinkler irrigation systems (see CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS - CEREAL GRAINS, CORN (FIELD, POP, SWEET, GROWN FOR SEED), COTTON, CRANBERRY, GRASS (FORAGE, FODDER, AND HAY), LEGUMES, MINT (PEPPERMINT AND SPEARMINT), NON-GRASS ANIMAL FEEDS, OILSEED GROUP, PEANUT, POTATO, SOYBEAN AND SUGARCANE section of this label).

Apply E2Y45 70WG Insect Control in sufficient water and of sufficient duration to ensure the specified rate is applied evenly to the entire treated area. Do not allow irrigation water to collect or runoff during chemigation; do not allow pooling of irrigation water. Inject E2Y45 70WG Insect Control downstream from any water filtration system.

E2Y45 70WG Insect Control must not be applied at the same time that a drip/irrigation line clean out product is being used as performance may be reduced. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

If you have questions about calibration, you should contact state extension service specialists, equipment manufacturers, or other experts. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Wear personal protective equipment as defined in the PPE section of the label for applicators and other handlers when making adjustments or repairs on the chemigation system when E2Y45 70WG Insect Control is in the irrigation water.

When the application is finished, allow the entire irrigation and injector system to be thoroughly flushed clean before stopping the system. A pesticide supply tank is recommended for the application of E2Y45 70WG Insect Control in chemigation systems.

Do not connect any irrigation system used for pesticide applications to a public water system unless the pesticide label-prescribed safety devices are in place. See “Required System Safety Devices for All Chemigation Systems” at the end of the Chemigation section. Public water system means a system for the provision to the public of piped water for human consumption, if such system has at least 15 service connections or regularly serves an average of at least 25 individuals at least 60 days out of the year.

APPLICATION INSTRUCTIONS

DRIP (TRICKLE) CHEMIGATION

E2Y45 70WG Insect Control may be applied via drip (trickle) chemigation as listed in the specific crop/pest sections of this label, and must be applied in a manner that ensures the product is in the root zone. E2Y45 70WG Insect Control must be in the root zone to provide effective control of target pests. E2Y45 70WG Insect Control is most effective when it is applied so that the roots are at or near the site of application; manage irrigation so that significant quantities of E2Y45 70WG Insect Control remain in the root zone where it is most effective. Unless directed otherwise in the specific crop sections of this label, a total of two applications can be made per crop season. Any subsequent E2Y45 70WG Insect Control treatments must be foliar applications.

1. Do not begin applications until after crop emergence in direct seeded crops.
2. Do not make applications if soil moisture is below the level required for active plant growth.
3. This product must be applied uniformly in the root zone or poor performance will result. Drip tape or emitters must be located within or directly adjacent to the root zone.
4. The drip system must be properly designed, free of leaks, and operated in manner that provides uniform application of water throughout the field.
5. In most situations, this product should be applied during the first 1/3 of the irrigation cycle, starting just after the system has come up to pressure.
6. The minimum injection period is the time that it takes water to move from the injection point to the furthest emitter in the irrigation zone (propagation time). If this time is not known, it can be calculated by measuring the time for a soluble dye to move from the injection point to the farthest emitter. A longer injection improves uniformity throughout the zone, but needs to allow for at least an equal period of water to flush the system and move the product through the soil.

Rate Conversion Chart for E2Y45 70WG Insect Control for Drip (Trickle) Chemigation and At-Plant Soil Application

Target Rate in oz/acre	Rate in Ounces Product / 1000 Row-Foot Based on Planted Row Spacing (in inches) of:															
	15 in.	20 in.	25 in.	30 in.	34 in.	36 in.	38 in.	40 in.	44 in.	48 in.	60 in.	66 in.	72 in.	78 in.	80 in.	84 in.
0.6											0.069	0.076	0.083	0.090	0.092	0.096
1.1				0.063	0.072	0.076	0.080	0.084	0.093	0.101	0.126	0.139	0.152	0.164	0.168	0.177
1.5		0.057	0.072	0.086	0.098	0.103	0.109	0.115	0.126	0.138	0.172	0.189	0.207	0.224	0.230	0.241
1.8		0.069	0.086	0.103	0.117	0.124	0.131	0.138	0.152	0.165	0.207	0.227	0.248	0.269	0.275	0.289
2.0	0.057	0.077	0.096	0.115	0.130	0.138	0.145	0.153	0.168	0.184	0.230	0.253	0.275	0.298	0.306	0.321
2.2	0.063	0.084	0.105	0.126	0.143	0.152	0.160	0.168	0.185	0.202	0.253	0.278	0.303	0.328	0.337	0.354

Level and length of control is affected by rate applied

Higher labeled rates may be required in heavy texture and/or high organic soils if application is made later in the crop development, or when pest pressure is high.

CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS – ONLY FOR USE ON CEREAL GRAINS, CORN (FIELD, POP, SWEET, GROWN FOR SEED), COTTON, CRANBERRY, GRASS (FORAGE, FODDER, AND HAY), LEGUMES, MINT (PEPPERMINT AND SPEARMINT), NON-GRASS ANIMAL FEEDS, OILSEED GROUP, PEANUT, POTATO, SOYBEAN, AND SUGARCANE

Types of Chemigation Systems: E2Y45 70WG Insect Control can be applied to CEREAL GRAINS, CORN (FIELD, POP, SWEET, GROWN FOR SEED), COTTON, CRANBERRY, GRASS (FORAGE, FODDER, AND HAY), LEGUMES, MINT (PEPPERMINT AND SPEARMINT), NON- GRASS ANIMAL FEEDS, OILSEED GROUP, PEANUT, POTATO, SOYBEAN, AND SUGARCANE through overhead sprinkler irrigation systems, including the following; center pivot, end tow, hand move, lateral move, side roll, solid set and wheel line. The irrigation system used must provide uniform water distribution.

Directions for Chemigation:

Preparation

A pesticide tank is recommended for the application of E2Y45 70WG Insect Control in chemigation systems. Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard clean-out procedure. Dispose of any residues in accordance with State and Federal laws. With the mix tank 1/4 to 1/2 full with water and the agitator running, measure the required amount of E2Y45 70WG Insect Control and add it to the tank. Then add additional water to bring your total pesticide mixture up to the desired volume for your application. Note: Always add the E2Y45 70WG Insect Control to water, never put E2Y45 70WG Insect Control into a dry tank or other mixing equipment without first adding water. See "Tank Mixing Sequence" section of the container label for tank mixing sequence. Continue to agitate the mixture throughout the application process. Use mechanical or hydraulic agitation, do not use air agitation.

Injection Into Chemigation Systems

Inject the proper amount of E2Y45 70WG Insect Control into the irrigation water flow using a positive displacement injection pump or a Venturi injector. Injection should occur at a point in the main irrigation water flow to ensure thorough mixing with the irrigation water. For continuously moving systems, inject the solution containing E2Y45 70WG Insect Control into the irrigation water line continually and uniformly throughout the irrigation cycle. Apply in no more than 0.2 inches of water per acre. For overhead sprinkler systems that are stationary, add the solution containing E2Y45 70WG Insect Control to the irrigation water line and apply no more than 0.2 inches of water per acre.

Uniform Water Distribution

The irrigation system used for application of E2Y45 70WG Insect Control must provide for uniform distribution of E2Y45 70WG Insect Control treated water. Non-uniform distribution can result in crop injury, lack of effectiveness or illegal pesticide residues in or on the crop being treated. Ensure the irrigation system is calibrated to uniformly distribute the chemigation application to the crop.

Contact the equipment manufacturer, the local University Extension agent or other experts if you have questions about achieving uniform distribution of the application.

Equipment Calibration

Calibrate the irrigation system and injector before applying E2Y45 70WG Insect Control. Calibrate the injection pump while the system is running using the expected irrigation rate. If you have questions about calibration, you should contact your state extension service specialists, equipment manufacturer or other experts.

Monitoring of Chemigation Applications

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of a responsible person, shall shut the system down and make necessary adjustments should the need arise. Wear the personal protective equipment as defined in the PPE section of the label for applicators and other handlers when making adjustments or repairs on the chemigation system when E2Y45 70WG Insect Control is in the irrigation water.

Operation

Start the water pump and sprinkler, and let the system achieve the desired pressure and speed before starting the injector. Start the injector and calibrate the injection system according to the directions above. This procedure is necessary to deliver the desired rate per acre in a uniform manner. When the application is finished, allow the entire irrigation and injector system to be thoroughly flushed clean before stopping the system.

- End guns must be turned off during the application if they irrigate nontarget areas or if they do not provide uniform application and coverage.
- It is recommended that nozzles in the immediate area of wells, control panels, chemical supply tanks and system safety devices be plugged to prevent contamination of these areas.
- Do not apply when wind speed favors drift beyond the area intended for treatment.
- Do not apply when system connections or fittings leak, or when nozzles do not provide uniform distribution.
- Do not allow irrigation water to collect or run-off during chemigation.

Cleaning the System

Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard clean-out procedure. Dispose of any residues in accordance with State and Federal laws. Consult your owner's manual or your local equipment dealer for cleanout procedures for your injection system.

REQUIRED SYSTEM SAFETY DEVICES FOR ALL CHEMIGATION SYSTEMS

1. 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.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. 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.

4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. 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.
6. Systems must use a metering device, such as a positive displacement pump or a Venturi injector, that provides uniform injection of the product, is effectively designed, and constructed of materials compatible with the product, and is capable of being fitted with a system interlock.
7. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

SOIL APPLICATIONS

E2Y45 70WG Insect Control may be applied as a soil application as listed in the specific crop/pest sections of this label, and must be applied in a manner that ensures the product is in the root zone. E2Y45 70WG Insect Control must be in the root zone to provide effective control of target pests. E2Y45 70WG Insect Control is most effective when it is applied so that the roots are at or near the site of application; manage irrigation so that significant quantities of E2Y45 70WG Insect Control remain in the root zone where it is most effective. Maintaining soil moisture to field capacity or to meet crop needs and environmental conditions aids in product availability to the roots and can improve efficacy. Applications of E2Y45 70WG Insect Control to the root zone allow the active ingredient to be transported from the roots through the xylem providing upward systemicity. E2Y45 70WG Insect Control is translocated to the canopy beginning immediately after the application, reaching an effective concentration in 1 to 3 days for seedlings and up to 7 days for larger plants. As the plant grows, the roots continue to absorb the available E2Y45 70WG Insect Control from the reservoir in the soil providing extended protection of the plant canopy including new growth.

The length of control provided following soil applications will depend on the rate used, the pest being controlled and the environmental conditions; such as soil type, soil moisture, soil pH, etc. Use the higher specified rate within the rate range when pests are expected to occur later in the crop growth cycle or when pests are expected to be present continuously. E2Y45 70WG Insect Control will primarily have activity in the foliage of treated plants and will not provide protection within the blooms and fruit. Foliar applications of other products may be needed to protect these parts of the plant. Unless directed otherwise in the specific crop sections of this label, only one soil application of E2Y45 70WG Insect Control can be made per crop season, except for drip chemigation where a total of two applications can be made per season. If two drip applications are made then the application rate must not exceed 1.5 oz product (0.066 lb ai/acre) per application. If E2Y45 70WG Insect Control is applied as an at plant soil application, only one subsequent drip chemigation application can be made.

In-Furrow Spray at Planting

Apply as a narrow band spray into the furrow at the seeding depth.

Transplant water treatment or Hill Drench

Transplants should be adequately watered before transplanting in the field where E2Y45 70WG Insect Control will be applied. Apply E2Y45 70WG Insect Control in the field at transplanting in a minimum of 2 fluid ounces of treatment solution per transplant. Ensure water volume is sufficient to thoroughly wet the root zone.

Surface Band at Planting

Apply as a narrow (2 inches or less) surface band spray above the seed line at planting. Incorporate surface band application within 24 hours of application using sufficient irrigation (usually 0.5 – 1.0 inches of water) to reach the seeding depth.

Soil Shank Injection

Use soil shank injection at planting. Applications must be incorporated using sufficient irrigation (usually 0.5 – 1.0 inches of water) to reach the root zone. Shank injection should be placed in the seed row or just below the seed line, within 1 - 2 inches of the seed line.

For insecticide resistance management, it is important to avoid consecutive applications of insecticides with the same mode of action on successive generations of the same pest. See crops on label for recommended treatment rates and additional use information.

CROP ROTATION

Crops on this label and the following crops or crop groups may be planted immediately following harvest: Artichoke, globe; Asparagus; Banana/Plantain; Brassica (Cole) Leafy Vegetables (Crop Group 5); Bulb Vegetables (Crop Group 3-07); Bushberry subgroup (Crop subgroup 13-07B); Cacao; Caneberry subgroup (Berry and Small Fruit Crop Group subgroup 13-07A); Cereal Grains (Crop Group 15); Forage, Fodder, and Straw of Cereal Grains (Crop Group 16); Citrus (Crop Group 10-10); Coffee; Corn (field, pop, seed, and sweet); Cotton; Cucurbit Vegetables (Crop Group 9); Figs; Fruiting Vegetables (Crop Group 8-10); Grass Forage, FODDER, AND HAY Group (Crop Group 17); Herbs subgroup (Crop Group subgroup 19A); Grape; Hops; Large Shrub/Tree Berry subgroup (Crop subgroup 13-07C); Leafy Vegetables (nonbrassica, Crop Group 4); Legume Vegetables (Crop Group 6); Foliage of Legume Vegetables (Crop Group 7); Low Growing Berry subgroup (Crop subgroup 13-07G); Nongrass Animal Feeds (Forage, Fodder, Straw, and Hay Crop Group 18); Okra; Oilseed Group (Crop Group 20); Olives; Peanut; Persimmons; Pome Fruits (Crop Group 11-10); Pineapple; Pomegranates; Prickly Pear Cactus; Rice; Root and Tuber Vegetables (Crop Group 1); Leaves of Root and Tuber Vegetables (Crop Group 2); Small Fruit Vine Climbing subgroup, except fuzzy kiwifruit (Berry and Small Fruit Crop Group subgroup 13-07F); Soybean; Spice subgroup (Crop Group subgroup 19B); Spearmint and Peppermint; Stone Fruits (Crop Group 12-12); Sugarcane; Tea; Tree Nuts and Pistachio (Crop Group 14); Tobacco; and Tropical Fruits (acerola, atemoya, avocado, biriba, black sapote, canistel, cherimoya, custard apple, ilama, feijoa, guava, jaboticaba, longan, lychee, mamey sapote, mango, papaya, passionfruit, pulasan, rambutan, sapodilla, soursop, Spanish lime, star apple, starfruit, sugar apple, wax jambu, and White sapote (Casimiroa), and/or hybrids of these).

All other crops cannot be planted until 12 months after the last application of E2Y45 70WG Insect Control.

E2Y45 70WG Insect Control RATE

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Artichoke, globe	FOLIAR, DRIP CHEMIGATION	Artichoke plume moth	0.047 - 0.098	1.1 – 2.2	3	4

Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.

USE RESTRICTIONS
 Do not make more than 4 applications per acre per calendar year.
 Do not apply more often than each 14 days.
 Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.
 Make applications between bud formation and harvest of an individual fruit.
 Apply in a minimum of 10 gallons water per acre by air and 50 - 200 gallons of water per acre by ground (use sufficient water to obtain thorough coverage without excessive runoff).

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Asparagus	FOLIAR	Beet armyworm Western yellowstriped armyworm	0.047 - 0.098	1.1 – 2.2	1	4

Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.

USE RESTRICTIONS
 Do not make more than 4 applications per acre per calendar year.
 Minimum interval between treatments is 3 days.
 Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.
 Do not apply less than 10 gal water per acre by ground.

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Onion bulbs, and onion green subgroups: (EPA Crop Group 3-07A and 3-07B) including Chive, fresh leaves; chive, Chinese, fresh leaves; Daylily, bulb; Elegans hosta; Fritillaria, bulb; Fritillaria, leaves; Garlic, bulb; Garlic, great-headed, bulb; Garlic, serpent, bulb; Kurrat; Lady's leek; Leek; Leek, wild; Lily, bulb; Onion, Beltsville bunching; Onion, bulb; Onion, Chinese, bulb; Onion, fresh; Onion, green; Onion, macrostem; Onion, pearl; Onion, potato, bulb; Onion, tree, tops; Onion, Welsh, tops; Shallot, bulb; Shallot, fresh leaves; Cultivars, varieties, and/or hybrids of these	FOLIAR	Beet armyworm Western yellowstriped armyworm	0.047 - 0.098	1.1 – 2.2	1	4

Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.

USE RESTRICTIONS
 Do not make more than 4 applications per acre per crop or more than 12 applications per acre per calendar year.
 Minimum interval between treatments is 7 days.
 Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per crop.
 Do not apply more than 13.7 oz E2Y45 70WG Insect Control or 0.6 lb a.i. of chlorantraniliprole containing products per acre per calendar year; in NY do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.
 Do not apply less than 10 gal water per acre by ground.

E2Y45 70WG Insect Control RATE

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Head and Stem Brassica and Leafy Brassica Greens (EPA Crop Subgroups 5 A and 5 B) including: Broccoli; Broccoli chinese (gai lon); Broccoli raab (rapini); Brussels Sprouts; Cabbage; Chinese cabbage (bok choy); Chinese cabbage (napa); Cabbage, Chinese mustard (gai choy); Cauliflower; Caval Broccoli; Collards; Kale; Kohlrabi; Mizuna; Mustard greens; Mustard Spinach; Rape greens	SOIL AT PLANTING† (an in- furrow spray, transplant water treatment, hill drench, surface band, soil shank injection)	Beet armyworm Cabbage looper Cabbage maggot** Corn earworm Cross-striped cabbageworm Diamondback moth* Hawaiian beet webworm Imported cabbageworm Western yellowstriped armyworm	0.047 - 0.098	1.1 – 2.2	3	4
	DRIP CHEMIGATION†	Beet armyworm Cabbage looper Corn earworm Cross-striped cabbageworm Diamondback moth* Hawaiian beet webworm Imported cabbageworm Western yellowstriped armyworm	0.047 - 0.098	1.1 – 2.2		
	FOLIAR	Silverleaf whiteflies (nymphs)***	0.066 - 0.098	1.5 – 2.2		
	FOLIAR	Beet armyworm Cabbage looper Corn earworm Cross-striped cabbageworm Diamondback moth* Hawaiian beet webworm Imported cabbageworm Western yellowstriped armyworm Grasshoppers	0.047 - 0.098 0.047 – 0.066	1.1 – 2.2 1.1 – 1.5		

Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.

* **Diamondback moth resistance management:** Do not apply E2Y45 70WG Insect Control more than twice to any generation of diamondback moth or within any 30 day period. After the second application of E2Y45 70WG Insect Control for diamondback moth, rotate to another effective insecticide with a different mode of action (i.e. a product with a different IRAC group number). Application(s) to the next generation of diamondback moth must be with an effective product with a different mode of action. Do not apply less than 1.1 oz. of E2Y45 70WG Insect Control per application per acre for diamondback moth control. Do not make more than 6 total applications per calendar year for control of diamondback moth at the same farm location.

** Suppression only. Transplant water treatment only

***Suppression only. Use in conjunction with an effective adult whitefly control program..

Grasshopper - Apply foliarly when grasshopper populations reach local established thresholds to prevent crop damage. Correct timing of spray applications to nymphal stages and thorough coverage is critical to achieve control. Performance is improved with the addition of a Methylated Seed Oil (MSO) adjuvant at 1 gallon per 100 gallons of spray volume (1% v/v) when eggs have hatched and the majority of the grasshopper population is 2nd - 3rd instar nymphs. Once grasshoppers contact and/or ingest E2Y45 70WG Insect Control there will be rapid feeding cessation; insect mortality may not occur until a week later or longer. Do not make more than two sequential applications of E2Y45 70WG Insect Control before rotating to another registered insecticide having a different mode-of-action.

When applied as a foliar application, for best performance use an effective adjuvant. See the "Use of Adjuvants" section of the label.

†**SOIL APPLICATIONS** (an in-furrow spray at planting, transplant water treatment, hill drench at planting, surface band at planting, soil shank injection at planting, or drip chemigation): See Rate Conversion Chart in the Chemigation section of this label for rate per 1000 linear ft. E2Y45 70WG Insect Control must be applied uniformly in the root zone or poor performance will result. Surface band application requires sufficient overhead watering following application to ensure the treatment is moved into the root zone. Refer to the SOIL APPLICATION section of this label for additional guidance; also see the rate conversion chart for application rate per 1000 linear feet.

For drip chemigation applications made in the second half of the crop growing cycle: translocation of E2Y45 70WG Insect Control into aerial portions of the plant may take up to 7 - 10 days.

USE RESTRICTIONS

Do not make more than 4 applications per acre per crop or more than 16 applications per acre per calendar year.

Minimum interval between treatments is 3 days for foliar applications and 10 days for drip chemigation applications.

Application via drip chemigation: drip tape must be placed directly underneath a single row to ensure E2Y45 70WG Insect Control is applied in the root zone.

Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per crop.

Do not apply more than 18.3 oz E2Y45 70WG Insect Control or 0.8 lb a.i. of chlorantraniliprole containing products per acre per calendar year; in NY do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.

Do not apply less than 10 gal water per acre by ground when applied as a foliar application.

Do not apply more than 2.2 oz (0.098 lb ai per acre) of E2Y45 70WG Insect Control to the soil at planting.

Do not apply more than 3.0 oz (0.132 lb ai per acre) of E2Y45 70WG Insect Control per crop by any combination of at plant soil application and drip chemigation.

Do not make more than 2 drip chemigation applications of E2Y45 70WG Insect Control per crop.

Do not make more than one drip chemigation application per crop if an at plant application of E2Y45 70WG Insect Control was made.

E2Y45 70WG Insect Control RATE

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Cereal Grains (EPA Crop Group 15) except Corn and Rice. Including: Barley; Buckwheat; Pearl Millet; Proso Millet; Oats; Rye; Sorghum (milo); Sorghum spp. [grain sorghum, sudangrass (seed crop), and hybrids of these grown for its seed]; Teosinte, Triticale; Wheat; Wild Rice	FOLIAR	Beet armyworm Corn earworm European corn borer Fall armyworm Sorghum webworm Southwestern corn borer Sugarcane borer True armyworm Wheat head armyworm	0.047 - 0.098	1.1 – 2.2	1	4
	OVERHEAD CHEMIGATION	Grasshoppers	0.027 - 0.066	0.6 – 1.5		

Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.

E2Y45 70WG Insect Control can be applied by overhead sprinkler chemigation systems. See "CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS - CEREAL GRAINS, CORN (FIELD, POP, SWEET, GROWN FOR SEED), COTTON, CRANBERRY, GRASS FORAGE, FODDER, AND HAY, LEGUMES, MINT (PEPPERMINT AND SPEARMINT), NON-GRASS ANIMAL FEEDS, OILSEED GROUP, PEANUT, POTATO, SOYBEAN, AND SUGARCANE" section for instructions on overhead sprinkler chemigation.

Grasshopper - Apply foliarly when grasshopper populations reach local established thresholds to prevent crop damage. Correct timing of spray applications to nymphal stages and thorough coverage is critical to achieve control. Performance is improved with the addition of a Methylated Seed Oil (MSO) adjuvant at 1 gallon per 100 gallons of spray volume (1% v/v) when eggs have hatched and the majority of the grasshopper population is 2nd - 3rd instar nymphs. Once grasshoppers contact and/or ingest E2Y45 70WG Insect Control there will be rapid feeding cessation; insect mortality may not occur until a week later or longer. Do not make more than two sequential applications of E2Y45 70WG Insect Control before rotating to another registered insecticide having a different mode-of-action.

USE RESTRICTIONS
 Do not make more than 4 applications per acre per calendar year.
 Minimum interval between treatments is 7 days.
 Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.
 Do not apply less than 10 gal water per acre by ground when applied as a foliar application.

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Forage, fodder, and Straw of Cereal Grains, (EPA Crop Group 16) except Corn and Rice. Including Forage, fodder, and straw of all commodities included in the cereal grains group, except corn and rice. Includes Sorghum spp. [sorghum, forage; sorghum, stover]; sudangrass; and hybrids of these grown for forage and/or stover.	FOLIAR	Beet armyworm Corn earworm European corn borer Fall armyworm Sorghum webworm Southwestern corn borer Sugarcane borer True armyworm Wheat head armyworm	0.047 - 0.098	1.1 – 2.2	1	4
	OVERHEAD CHEMIGATION	Grasshoppers	0.027 - 0.066	0.6 – 1.5		

Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.

E2Y45 70WG Insect Control can be applied by overhead sprinkler chemigation systems. See "CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS - CEREAL GRAINS, CORN (FIELD, POP, SWEET, GROWN FOR SEED), COTTON, CRANBERRY, GRASS FORAGE, FODDER, AND HAY, LEGUMES, MINT (PEPPERMINT AND SPEARMINT), NON-GRASS ANIMAL FEEDS, OILSEED GROUP, PEANUT, POTATO, SOYBEAN, AND SUGARCANE" section for instructions on overhead sprinkler chemigation.

Grasshopper - Apply foliarly when grasshopper populations reach local established thresholds to prevent crop damage. Correct timing of spray applications to nymphal stages and thorough coverage is critical to achieve control. Performance is improved with the addition of a Methylated Seed Oil (MSO) adjuvant at 1 gallon per 100 gallons of spray volume (1% v/v) when eggs have hatched and the majority of the grasshopper population is 2nd - 3rd instar nymphs. Once grasshoppers contact and/or ingest E2Y45 70WG Insect Control there will be rapid feeding cessation; insect mortality may not occur until a week later or longer. Do not make more than two sequential applications of E2Y45 70WG Insect Control before rotating to another registered insecticide having a different mode-of-action.

USE RESTRICTIONS
 Do not make than 4 applications per acre per calendar year.
 Minimum interval between treatments is 7 days.
 Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.
 Do not apply less than 10 gal water per acre by ground when applied as a foliar application.

E2Y45 70WG Insect Control RATE

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Corn (field); Corn (pop)	SOIL AT PLANTING† In-furrow spray	Army cutworm Black cutworm Clay-backed cutworm Common stalkborer Dingy cutworm European corn borer Fall armyworm Sandhills cutworm Southern armyworm True armyworm	0.066 - 0.098	1.5 – 2.2	14	4
	FOLIAR OVERHEAD CHEMIGATION	Army cutworm Beet armyworm Black cutworm Clay-backed cutworm Corn earworm Dingy cutworm European corn borer Fall armyworm Sandhills cutworm Southern armyworm Southwestern corn borer True armyworm Western bean cutworm	0.047 - 0.098	1.1 – 2.2		
		Grasshoppers	0.027 - 0.066	0.6 – 1.5		

Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.

E2Y45 70WG Insect Control can be applied by overhead sprinkler chemigation systems. See "CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS - CEREAL GRAINS, CORN (FIELD, POP, SWEET, GROWN FOR SEED), COTTON, CRANBERRY, GRASS FORAGE, FODDER, AND HAY, LEGUMES, MINT (PEPPERMINT AND SPEARMINT), NON-GRASS ANIMAL FEEDS, OILSEED GROUP, PEANUT, POTATO, SOYBEAN, AND SUGARCANE" section for instructions on overhead sprinkler chemigation.

†**SOIL APPLICATIONS** (In-Furrow Spray at Planting): See Rate Conversion Chart in the Chemigation section of this label for rate per 1000 linear ft. Apply as a narrow band spray into the furrow at the seeding depth. E2Y45 70WG Insect Control must be applied in a manner that ensures the product is in the root zone. E2Y45 70WG Insect Control is most effective when it is applied so that the roots are at or near the site of application; manage irrigation so that significant quantities of E2Y45 70WG Insect Control remain in the root zone where it is most effective. Unless directed otherwise in the specific crop sections of this label, only one soil application of E2Y45 70WG Insect Control can be made per crop.

Grasshopper - Apply foliarly when grasshopper populations reach local established thresholds to prevent crop damage. Correct timing of spray applications to nymphal stages and thorough coverage is critical to achieve control. Performance is improved with the addition of a Methylated Seed Oil (MSO) adjuvant at 1 gallon per 100 gallons of spray volume (1% v/v) when eggs have hatched and the majority of the grasshopper population is 2nd - 3rd instar nymphs. Once grasshoppers contact and/or ingest E2Y45 70WG Insect Control there will be rapid feeding cessation; insect mortality may not occur until a week later or longer. Do not make more than two sequential applications of E2Y45 70WG Insect Control before rotating to another registered insecticide having a different mode-of-action.

USE RESTRICTIONS

Do not make than 4 applications per acre per calendar year.

Minimum interval between treatments is 7 days.

Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products, whether applications are made to the soil, foliarly or as a seed treatment per acre per calendar year.

Do not apply less than 10 gal water per acre by ground when applied as a foliar application.

E2Y45 70WG Insect Control RATE

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Corn (sweet); Corn (grown for seed)	SOIL AT PLANTING† In-furrow spray	Army cutworm Black cutworm Clay-backed cutworm Common stalkborer Dingy cutworm European corn borer Fall armyworm Sandhills cutworm Southern armyworm True armyworm	0.066 - 0.098	1.5 – 2.2	1	4
	FOLIAR OVERHEAD CHEMIGATION	Army cutworm Beet armyworm Black cutworm Clay-backed cutworm Corn earworm Dingy cutworm European corn borer Fall armyworm Sandhills cutworm Southern armyworm Southwestern corn borer True armyworm Western bean cutworm	0.047 - 0.098	1.1 – 2.2		
		Grasshoppers	0.027 - 0.066	0.6 – 1.5		

Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.

E2Y45 70WG Insect Control can be applied by overhead sprinkler chemigation systems. See "CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS - CEREAL GRAINS, CORN (FIELD, POP, SWEET, GROWN FOR SEED), COTTON, CRANBERRY, GRASS FORAGE, FODDER, AND HAY, LEGUMES, MINT (PEPPERMINT AND SPEARMINT), NON-GRASS ANIMAL FEEDS, OILSEED GROUP, PEANUT, POTATO, SOYBEAN, AND SUGARCANE" section for instructions on overhead sprinkler chemigation.

†**SOIL APPLICATIONS** (In-Furrow Spray at Planting): See Rate Conversion Chart in the Chemigation section of this label for rate per 1000 linear ft.

Apply as a narrow band spray into the furrow at the seeding depth. E2Y45 70WG Insect Control must be applied in a manner that ensures the product is in the root zone. E2Y45 70WG Insect Control is most effective when it is applied so that the roots are at or near the site of application; manage irrigation so that significant quantities of E2Y45 70WG Insect Control remain in the root zone where it is most effective. Unless directed otherwise in the specific crop sections of this label, only one soil application of E2Y45 70WG Insect Control can be made per crop.

Grasshopper - Apply foliarly when grasshopper populations reach local established thresholds to prevent crop damage. Correct timing of spray applications to nymphal stages and thorough coverage is critical to achieve control. Performance is improved with the addition of a Methylated Seed Oil (MSO) adjuvant at 1 gallon per 100 gallons of spray volume (1% v/v) when eggs have hatched and the majority of the grasshopper population is 2nd - 3rd instar nymphs. Once grasshoppers contact and/or ingest E2Y45 70WG Insect Control there will be rapid feeding cessation; insect mortality may not occur until a week later or longer. Do not make more than two sequential applications of E2Y45 70WG Insect Control before rotating to another registered insecticide having a different mode-of-action.

USE RESTRICTIONS

Do not make more than 4 applications per acre per calendar year.

Minimum interval between treatments is 1 day.

Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products whether applications are made to the soil, foliarly or as a seed treatment per acre per calendar year.

Do not apply less than 10 gal water per acre by ground when applied as a foliar application.

E2Y45 70WG Insect Control RATE

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Cotton	FOLIAR OVERHEAD CHEMIGATION	Beet armyworm	0.047 - 0.098	1.1 – 2.2	21	4
		Cotton bollworm**				
		Cutworms				
		Fall armyworm				
		Saltmarsh caterpillar				
		Southern armyworm				
		Tobacco budworm**				
		Western yellowstriped armyworm				
		Cabbage looper	0.066 - 0.098	1.5 – 2.2		
		Soybean looper*				
		Grasshoppers	0.027 - 0.066	0.6 – 1.5		

Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.

E2Y45 70WG Insect Control can be applied by overhead sprinkler chemigation systems. See "CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS - CEREAL GRAINS, CORN (FIELD, POP, SWEET, GROWN FOR SEED), COTTON, CRANBERRY, GRASS FORAGE, FODDER, AND HAY, LEGUMES, MINT (PEPPERMINT AND SPEARMINT), NON-GRASS ANIMAL FEEDS, OILSEED GROUP, PEANUT, POTATO, SOYBEAN, AND SUGARCANE" section for instructions on overhead sprinkler chemigation.

*Suppression only.

**For Heliothine control (cotton bollworm and/or tobacco budworm in conventional non-transgenic/non-Bt cotton) make the first application at rates of 0.066 - 0.098 lb. ai per acre (1.5 – 2.2 oz product). Subsequent applications can be at rates of 0.047 - 0.098 lb. ai acre (1.1 – 2.2 oz product) depending on pest pressure.

For control of cotton bollworm (*Helicoverpa zea*) in Bt transgenic cotton varieties, the initial application, and subsequent applications, of E2Y45 70WG Insect Control can be applied at 1.1 to 1.5 ounces per acre as a foliar spray. Apply when cotton bollworm populations reach local established treatment thresholds to prevent crop damage.

Grasshopper - Apply foliarly when grasshopper populations reach local established thresholds to prevent crop damage. Correct timing of spray applications to nymphal stages and thorough coverage is critical to achieve control. Performance is improved with the addition of a Methylated Seed Oil (MSO) adjuvant at 1 gallon per 100 gallons of spray volume (1% v/v) when eggs have hatched and the majority of the grasshopper population is 2nd - 3rd instar nymphs. Once grasshoppers contact and/or ingest E2Y45 70WG Insect Control there will be rapid feeding cessation; insect mortality may not occur until a week later or longer. Do not make more than two sequential applications of E2Y45 70WG Insect Control before rotating to another registered insecticide having a different mode-of-action.

USE RESTRICTIONS

Do not make more than 4 applications per acre per calendar year.

Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.

The minimum interval between treatments is 5 days.

Do not apply less than 10 gal water per acre by ground when applied as a foliar application.

E2Y45 70WG Insect Control RATE

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Cucurbit Vegetables, (EPA Crop Group 9) Including: Chayote (fruit); Chinese wax-gourd (Chinese preserving melon); Citron melon; Cucumber; Gherkin; Edible gourd (includes hyotan, cucuzza, hechima, Chinese okra); Momordica spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber); Muskmelon (includes true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon); Pumpkin, Summer squash (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini); Winter squash (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash); Watermelon	SOIL AT PLANTING† (an in-furrow spray, transplant water treatment, hill drench, surface band, soil shank injection)	Beet armyworm Cabbage looper	0.047 - 0.098	1.1 – 2.2	1	4
		Leafminers (larvae)* Silverleaf whiteflies (nymphs)**	0.066 - 0.098	1.5 – 2.2		
	DRIP	Melon-worm	0.027 - 0.047	0.6 – 1.1		
	CHEMIGATION† Make application(s) within the first half of the crop growing cycle, typically up to peak bloom crop stage.	Beet armyworm Cabbage looper Pickle worm	0.047 - 0.098	1.1 – 2.2		
		Leafminers (larvae)* Silverleaf whiteflies (nymphs)**	0.066 - 0.098	1.5 – 2.2		
	FOLIAR	Melon-worm	0.027 - 0.047	0.6 – 1.1		
		Beet armyworm Cabbage looper Hawaiian beet webworm Pickle worm Western yellowstriped armyworm	0.047 - 0.098	1.1 – 2.2		
		Leafminers (larvae)* Silverleaf whiteflies (nymphs)**	0.066 - 0.098	1.5 – 2.2		

Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.

*Control of *Liriomyza* species except suppression only for *L. huidobrensis* and *L. langei*.

**Suppression only. Use in conjunction with an effective adult whitefly control program.

†**SOIL APPLICATIONS** (an in-furrow spray at planting, transplant water treatment, hill drench at planting, surface band at planting, soil shank injection at planting, or drip chemigation): See Rate Conversion Chart in the Chemigation section of this label for rate per 1000 linear ft. E2Y45 70WG Insect Control must be applied uniformly in the root zone or poor performance will result. Surface band application requires sufficient overhead watering following application in to ensure the treatment is moved into the root zone.

Refer to the SOIL APPLICATION section of this label for additional guidance; also see the rate conversion chart for application rate per 1000 linear feet.

USE RESTRICTIONS

Do not make more than 4 applications per acre per crop or 12 applications per acre per calendar year.

Minimum interval between treatments is 5 days for foliar applications and 10 days for drip chemigation applications.

Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per crop.

Do not apply more than 13.7 oz E2Y45 70WG Insect Control or 0.6 lb a.i. of chlorantraniliprole containing products per acre per calendar year; in NY do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.

Do not apply less than 10 gal water per acre by ground when applied as a foliar application.

Do not apply more than 3.0 oz (0.132 lb ai per acre) of E2Y45 70WG Insect Control per crop by any combination of at plant soil application and drip chemigation.

Do not make more than 2 drip chemigation applications of E2Y45 70WG Insect Control per crop.

Do not apply more than 2.2 oz (0.098 lb ai per acre) of E2Y45 70WG Insect Control to the soil at planting.

Do not make more than one drip chemigation application per crop if an at plant application of E2Y45 70WG Insect Control was made.

E2Y45 70WG Insect Control RATE

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Fruiting Vegetables Including: Eggplant; Groundcherry (Physalis spp.); Okra; Pepino; Pepper (including bell pepper, chili pepper, cooking pepper, pimento, sweet pepper); Tomatillo; Tomato	SOIL AT PLANTING† (an in-furrow spray, transplant water treatment, hill drench, surface band, soil shank injection)	Beet armyworm Fall armyworm Loopers Southern armyworm Tomato fruitworm Tomato pinworm Western yellow striped armyworm	0.047 - 0.098	1.1 – 2.2	1	4
		Leafminers (larvae)* Silverleaf whiteflies (nymphs)**	0.066 - 0.098	1.5 – 2.2		
	DRIP CHEMIGATION†	Beet armyworm Colorado potato beetle European corn borer Fall armyworm Garden webworm Hornworms Loopers Southern armyworm Tomato fruitworm Tomato pinworm Western yellow striped armyworm	0.047 - 0.098	1.1 – 2.2		
		Leafminers (larvae)* Silverleaf whiteflies (nymphs)**	0.066 - 0.098	1.5 – 2.2		
	FOLIAR	Hornworms	0.027 - 0.066	0.6 – 1.5		
		Beet armyworm Colorado potato beetle European corn borer Fall armyworm Garden webworm Loopers Southern armyworm Tomato fruitworm Tomato pinworm Western yellow striped armyworm	0.047 - 0.098	1.1 – 2.2		
		Leafminers (larvae)* Silverleaf whiteflies (nymphs)**	0.066 - 0.098	1.5 – 2.2		

Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.

* Control of *Liriomyza* species except suppression only for *L. huidobrensis* and *L. langei*.

** Suppression only. Use in conjunction with an effective adult whitefly control program.

†**SOIL APPLICATIONS** (an in-furrow spray at planting, transplant water treatment, hill drench at planting, surface band at planting, soil shank injection at planting, or drip chemigation): See Rate Conversion Chart in the Chemigation section of this label for rate per 1000 linear ft. E2Y45 70WG Insect Control must be applied uniformly in the root zone or poor performance will result. Surface band application requires sufficient overhead watering following application to ensure the treatment is moved into the root zone.

Refer to the SOIL APPLICATION section of this label for additional guidance; also see the rate conversion chart for application rate per 1000 linear feet.

For drip chemigation applications made in the second half of the crop growing cycle: translocation of E2Y45 70WG Insect Control into aerial portions of the plant may take up to 7 - 10 days.

USE RESTRICTIONS

Do not make more than 4 applications per acre per crop or 12 applications per acre per calendar year.

Minimum interval between treatments is 5 days for foliar applications and 10 days for drip chemigation applications.

Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per crop.

Do not apply more than 13.7 oz E2Y45 70WG Insect Control or 0.6 lb a.i. of chlorantraniliprole containing products per acre per calendar year; in NY do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.

Do not apply less than 10 gal water per acre by ground when applied as a foliar application.

Do not make more than 2 drip chemigation applications of E2Y45 70WG Insect Control per crop .

Do not make more than one drip chemigation application per crop if an at plant application of E2Y45 70WG Insect Control was made.

Do not apply more than 3.0 oz (0.132 lb ai per acre) of E2Y45 70WG Insect Control per crop by any combination of at plant soil application and drip chemigation.

Do not apply more than 2.2 oz (0.098 lb ai per acre) of E2Y45 70WG Insect Control to the soil at planting.

E2Y45 70WG Insect Control RATE

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Grass Forage, Fodder and Hay: (EPA Crop Group 17) Any grass, Gramineae family (either green or cured) except sugarcane and those included in the cereal grains group, that will be fed to or grazed by livestock; all pasture and range grasses; and grasses grown for hay or silage.	FOLIAR	Beet armyworm Corn earworm Fall armyworm Sod webworm Southern armyworm True armyworm	0.047 - 0.098	1.1 – 2.2	0	4
	OVERHEAD CHEMIGATION	Grasshoppers	0.027 - 0.066	0.6 – 1.5		
		Billbug (grubs)* Cutworms European crane fly (larvae)**	0.066 - 0.098	1.5 – 2.2		

Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.

E2Y45 70WG Insect Control can be applied by overhead sprinkler chemigation systems. See "CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS - CEREAL GRAINS, CORN (FIELD, POP, SWEET, GROWN FOR SEED), COTTON, CRANBERRY, GRASS FORAGE, FODDER, AND HAY, LEGUMES, MINT (PEPPERMINT AND SPEARMINT), NON-GRASS ANIMAL FEEDS, OILSEED GROUP, PEANUT, POTATO, SOYBEAN, AND SUGARCANE" section for instructions on overhead sprinkler chemigation.

* Suppression only. Grass grown for seed only.

Application Instructions

For control of Armyworms, Cutworms, and Sod Webworms, apply at first sign of economic crop damage. Apply E2Y45 70WG Insect Control as a thorough coverage foliar spray using properly calibrated ground equipment in a minimum of 10 gallons per acre, or via overhead chemigation in 0.10 to 0.20 inches of water per acre. For foliar sprays, increase the spray volume to compensate for the amount of foliage present. For maximum spray penetration in to the root crown area, the use of a silicone surfactant may be useful. For best results with foliar spray applications, delay the next irrigation for at least 24 hours.

*For suppression of Billbug grubs, apply when overwintered adult Billbugs are first observed. This will usually occur in late April or early May. It is important to move the E2Y45 70WG Insect Control into the grass root zone. This is best achieved by applying via overhead chemigation in 0.25 to 0.50 inches of water per acre, or by immediately following a foliar spray application with 0.25 to 0.50 acre inch of water.

**For suppression of European Crane Fly larvae apply between September and early November.

Grasshopper - Apply foliarly when grasshopper populations reach local established thresholds to prevent crop damage. Correct timing of spray applications to nymphal stages and thorough coverage is critical to achieve control. Performance is improved with the addition of a Methylated Seed Oil (MSO) adjuvant at 1 gallon per 100 gallons of spray volume (1% v/v) when eggs have hatched and the majority of the grasshopper population is 2nd - 3rd instar nymphs. Once grasshoppers contact and/or ingest E2Y45 70WG Insect Control there will be rapid feeding cessation; insect mortality may not occur until a week later or longer. Do not make more than two sequential applications of E2Y45 70WG Insect Control before rotating to another registered insecticide having a different mode-of-action.

USE RESTRICTIONS

Do not make more than 4 applications per acre per calendar year.

Minimum interval between treatments is 7 days.

Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.

Do not apply less than 10 gal water per acre by ground when applied as a foliar application.

E2Y45 70WG Insect Control RATE

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Herb subgroup (EPA Crop Subgroup 19A) Including Angelica; Balm; Basil; Borage; Burnet; Camomile; Catnip; Chervil (dried); Chive, Chinese; Clary; Coriander (leaf); Costmary; Culantro (leaf); Curry (leaf); Dillweed; Horehound; Hyssop; Lavender; Lemongrass; Lovage (leaf); Marigold; Marjoram; Nasturtium; Parsley (dried); Pennyroyal; Rosemary; Rue; Sage; Savory, summer and winter; Sweet bay; Tansy; Tarragon; Thyme; Wintergreen; Woodruff; and Wormwood	FOLIAR	Beet armyworm Cabbage looper Corn earworm Fall armyworm Southern armyworm	0.047 - 0.066	1.1 – 1.5	1	4

Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.

PLANT TOLERANCE PHYTOTOXICITY

E2Y45 70WG Insect Control has been tested on numerous crops and cultivars with no observable phytotoxicity at label rates. However, neither the manufacturer nor the seller has determined whether or not E2Y45 70WG Insect Control can be used safely on all herbs and spices for which it is registered for use.

Since all herbs and spices and their varieties and cultivars have not been tested for phytotoxicity it is recommended that a small number of plants be sprayed initially to determine if there is any phytotoxicity prior to large scale applications to herbs and spices. The user assumes all risks arising from application of E2Y45 70WG Insect Control in a manner that is inconsistent with its labeling.

USE RESTRICTIONS

Do not make more than 4 applications per acre per crop or 16 applications per acre per calendar year.

Minimum interval between treatments is 3 days.

Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per crop.

Do not apply more than 18.3 oz E2Y45 70WG Insect Control or 0.8 lb a.i. of chlorantraniliprole containing products per acre per calendar year; in NY do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.

Do not apply less than 10 gal water per acre by ground.

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Hops (except California)	FOLIAR	Western yellowstriped armyworm	0.047 - 0.098	1.1 – 2.2	0	4

Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.

USE RESTRICTIONS

Do not make more than 4 applications per acre per calendar year.

Minimum interval between treatments is 7 days.

Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.

Do not apply less than 10 gal water per acre by ground.

E2Y45 70WG Insect Control RATE

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Leafy Vegetables except brassica (EPA Crop Group 4) Including: Amaranth leafy; Arugula (roquette); Cardoon; Celery; Celery (Chinese); Celtuce; Chevril; Chinese spinach; Chrysanthemum (edible leaved); Chrysanthemum, garland; Corn salad; Cress (garden); Cress (upland); Dandelion, leaves; Dock (sorrel); Endive (escarole); Florence fennel; Lettuce (head & leaf); Orach; Parsley; Purslane (garden) (winter); Radicchio (red chicory); Rhubarb; Spinach; Spinach (vine); Spinach (New Zealand); Swiss chard; Tampala	SOIL AT PLANTING† (an in-furrow spray, transplant water treatment, hill drench, surface band, soil shank injection)	Beet armyworm Corn earworm Cabbage looper Tobacco budworm	0.047 - 0.098	1.1 – 2.2	1	4
		Leafminers (larvae)** Silverleaf whiteflies (nymphs)***	0.066 - 0.098	1.5 – 2.2		
	DRIP CHEMIGATION†	Beet armyworm Corn earworm Cabbage looper Diamondback moth* Hawaiian beet webworm Tobacco budworm	0.047 - 0.098	1.1 – 2.2		
		Leafminers (larvae)** Silverleaf whiteflies (nymphs)***	0.066 - 0.098	1.5 – 2.2		
	FOLIAR	Beet armyworm Cabbage looper Corn earworm Diamondback moth* Hawaiian beet webworm Tobacco budworm Western yellowstriped armyworm	0.047 - 0.098	1.1 – 2.2		
		Leafminers (larvae)** Silverleaf whiteflies (nymphs)***	0.066 - 0.098	1.5 – 2.2		
		Grasshoppers	0.047 – 0.066	1.1 – 1.5		

Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.

* Diamondback moth resistance management: Do not apply E2Y45 70WG Insect Control more than twice to any generation of diamondback moth or within any 30 day period. After the second application of E2Y45 70WG Insect Control for diamondback moth, rotate to another effective insecticide with a different mode of action (i.e. a product with a different IRAC group number). Application(s) to the next generation of diamondback moth must be with an effective product with a different mode of action. Do not apply less than 1.1 oz. of E2Y45 70WG Insect Control per application per acre for diamondback moth control. Do not make more than 6 total applications per acre per calendar year for control of diamondback moth at the same farm location.

** Control of *Liriomyza* species except suppression only for *L. huidobrensis* and *L. lanpei*.

*** Suppression only. Use in conjunction with an effective adult whitefly control program.

Grasshopper - Apply foliarly when grasshopper populations reach local established thresholds to prevent crop damage. Correct timing of spray applications to nymphal stages and thorough coverage is critical to achieve control. Performance is improved with the addition of a Methylated Seed Oil (MSO) adjuvant at 1 gallon per 100 gallons of spray volume (1% v/v) when eggs have hatched and the majority of the grasshopper population is 2nd - 3rd instar nymphs. Once grasshoppers contact and/or ingest E2Y45 70WG Insect Control there will be rapid feeding cessation; insect mortality may not occur until a week later or longer. Do not make more than two sequential applications of E2Y45 70WG Insect Control before rotating to another registered insecticide having a different mode-of-action.

†**SOIL APPLICATIONS** (an in-furrow spray at planting, transplant water treatment, hill drench at planting, surface band at planting, soil shank injection at planting, or drip chemigation): See Rate Conversion Chart in the Chemigation section of this label for rate per 1000 linear ft. E2Y45 70WG Insect Control must be applied uniformly in the root zone or poor performance will result. Surface band application requires sufficient watering in to ensure the treatment is moved into the root zone.

Refer to the SOIL APPLICATION section of this label for additional guidance; also see the rate conversion chart for application rate per 1000 linear feet.

For drip chemigation applications made in the second half of the crop growing cycle: translocation of E2Y45 70WG Insect Control into aerial portions of the plant may take up to 7 - 10 days.

USE RESTRICTIONS

Do not make more than 4 applications per acre per crop or 16 applications per acre per calendar year.

Minimum interval between treatments is 3 days for foliar applications and 10 days for drip chemigation applications.

Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per crop.

Do not apply more than 18.3 oz E2Y45 70WG Insect Control or 0.8 lb a.i. of chlorantraniliprole containing products per acre per calendar year; in NY do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.

Do not apply less than 10 gal water per acre by ground when applied as a foliar application.

Do not apply more than 2.2 oz (0.098 lb ai per acre) of E2Y45 70WG Insect Control to the soil at planting.

Do not apply more than 3.0 oz (0.132 lb ai per acre) of E2Y45 70WG Insect Control per crop by any combination of at plant soil application and drip chemigation.

Do not make more than 2 drip chemigation applications of E2Y45 70WG Insect Control per crop.

Do not make more than one drip chemigation application per crop if an at plant application of E2Y45 70WG Insect Control was made.

E2Y45 70WG Insect Control RATE

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Legume vegetables (EPA Crop Group 6) (For soybean see separate soybean crop section below.) (Succulent or Dried, Including: Bean (Lupinus) (includes grain lupin, sweet lupin, white lupin, and white sweet lupin); Bean (Phaseolus) (includes field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean); Bean (Vigna) (includes adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea, crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, yardlong bean); Broad bean (fava); Chickpea (garbanzo); Guar; Jackbean; Lablab bean; Lentil; Pea (Pisum) (includes dwarf pea, edible-podded pea, English pea, field pea, garden pea, green pea, snowpea, sugar snap pea); Pigeon pea; Sword bean	SOIL AT PLANTING† In-furrow spray	Beet armyworm Corn earworm European corn borer Fall armyworm	0.066 - 0.098	1.5 – 2.2	1	4
	FOLIAR	Beet armyworm Cabbage looper Corn earworm European corn borer Fall armyworm Soybean looper Western bean cutworm	0.047 - 0.098	1.1 – 2.2		
	OVERHEAD CHEMIGATION	Leafminers (larvae)* Silverleaf whiteflies (nymphs)**	0.098	2.2		
		Grasshoppers	0.027 - 0.066	0.6 – 1.5		

Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.

E2Y45 70WG Insect Control can be applied by overhead sprinkler chemigation systems. See "CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS - CEREAL GRAINS, CORN (FIELD, POP, SWEET, GROWN FOR SEED), COTTON, CRANBERRY, GRASS FORAGE, FODDER, AND HAY, LEGUMES, MINT (PEPPERMINT AND SPEARMINT), NON-GRASS ANIMAL FEEDS, OILSEED GROUP, PEANUT, POTATO, SOYBEAN, AND SUGARCANE" section for instructions on overhead sprinkler chemigation.

*Control of *Liriomyza* species except suppression only for *L. huidobrensis* and *L. langei*.

**Suppression only. Use in conjunction with an effective adult whitefly control program.

Grasshopper - Apply foliarly when grasshopper populations reach local established thresholds to prevent crop damage. Correct timing of spray applications to nymphal stages and thorough coverage is critical to achieve control. Performance is improved with the addition of a Methylated Seed Oil (MSO) adjuvant at 1 gallon per 100 gallons of spray volume (1% v/v) when eggs have hatched and the majority of the grasshopper population is 2nd - 3rd instar nymphs. Once grasshoppers contact and/or ingest E2Y45 70WG Insect Control there will be rapid feeding cessation; insect mortality may not occur until a week later or longer. Do not make more than two sequential applications of E2Y45 70WG Insect Control before rotating to another registered insecticide having a different mode-of-action.

†**SOIL APPLICATIONS** (In-Furrow Spray at Planting): See Rate Conversion Chart in the Chemigation section of this label for rate per 1000 linear ft. Apply as a narrow band spray into the furrow at the seeding depth. E2Y45 70WG Insect Control must be applied in a manner that ensures the product is in the root zone. E2Y45 70WG Insect Control must be in the root zone to provide effective control of target pests. E2Y45 70WG Insect Control is most effective when it is applied so that the roots are at or near the site of application; manage irrigation so that significant quantities of E2Y45 70WG Insect Control remain in the root zone where it is most effective. Unless directed otherwise in the specific crop sections of this label, only one soil application of E2Y45 70WG Insect Control can be made per crop.

USE RESTRICTIONS

Do not make more than 4 applications per acre per crop or 12 applications per acre per calendar year.

Minimum interval between treatments is 3 days.

Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per crop.

Do not apply more than 13.7 oz E2Y45 70WG Insect Control or 0.6 lb a.i. of chlorantraniliprole containing products per acre per calendar year; in NY do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.

Do not apply less than 10 gal water per acre by ground when applied as a foliar application.

E2Y45 70WG Insect Control RATE

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Foliage of Legume Vegetables (EPA Crop Group 7) except soybean including: of any legume vegetable included in the legume vegetables that will be used as animal feed.	SOIL AT PLANTING† In-furrow spray	Beet armyworm Corn earworm European corn borer Fall armyworm	0.066 - 0.098	1.5 – 2.2	1	4
	FOLIAR	Beet armyworm Cabbage looper Corn earworm European corn borer Fall armyworm Soybean looper Western bean cutworm	0.047 - 0.098	1.1 – 2.2		
	OVERHEAD CHEMIGATION	Leafminers (larvae)* Silverleaf whiteflies (nymphs)**	0.098	2.2		
		Grasshoppers	0.027 - 0.066	0.6 – 1.5		

Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.

*Control of *Liriomyza* species except suppression only for *L. huidobrensis* and *L. langei*.

**Suppression only. Use in conjunction with an effective adult whitefly control program.

Grasshopper -Apply foliarly when grasshopper populations reach local established thresholds to prevent crop damage. Correct timing of spray applications to nymphal stages and thorough coverage is critical to achieve control. Performance is improved with the addition of a Methylated Seed Oil (MSO) adjuvant at 1 gallon per 100 gallons of spray volume (1% v/v) when eggs have hatched and the majority of the grasshopper population is 2nd - 3rd instar nymphs. Once grasshoppers contact and/or ingest E2Y45 70WG Insect Control there will be rapid feeding cessation; insect mortality may not occur until a week later or longer. Do not make more than two sequential applications of E2Y45 70WG Insect Control before rotating to another registered insecticide having a different mode-of-action.

†**SOIL APPLICATIONS** (In-Furrow Spray at Planting): See Rate Conversion Chart in the Chemigation section of this label for rate per 1000 linear ft. Apply as a narrow band spray into the furrow at the seeding depth. E2Y45 70WG Insect Control must be applied in a manner that ensures the product is in the root zone. E2Y45 70WG Insect Control must be in the root zone to provide effective control of target pests. E2Y45 70WG Insect Control is most effective when it is applied so that the roots are at or near the site of application; manage irrigation so that significant quantities of E2Y45 70WG Insect Control remain in the root zone where it is most effective. Unless directed otherwise in the specific crop sections of this label, only one soil application of E2Y45 70WG Insect Control can be made per crop.

E2Y45 70WG Insect Control can be applied by overhead sprinkler chemigation systems. See "CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS - CEREAL GRAINS, CORN (FIELD, POP, SWEET, GROWN FOR SEED), COTTON, CRANBERRY, GRASS FORAGE, FODDER, AND HAY, LEGUMES, MINT (PEPPERMINT AND SPEARMINT), NON-GRASS ANIMAL FEEDS, OILSEED GROUP, PEANUT, POTATO, SOYBEAN, AND SUGARCANE" section for instructions on overhead sprinkler chemigation.

USE RESTRICTIONS

Do not make more than 4 applications per acre per crop or 12 applications per acre per calendar year.

Minimum interval between treatments is 3 days.

Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per crop.

Do not apply more than 13.7 oz E2Y45 70WG Insect Control or 0.6 lb a.i. of chlorantraniliprole containing products per acre per calendar year; in NY do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.

Do not apply less than 10 gal water per acre by ground when applied as a foliar application.

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Mint: Peppermint and Spearmint	FOLIAR OVERHEAD CHEMIGATION	Armyworms Cutworms Loopers Mint root borer	0.047 - 0.098	1.1 – 2.2	3	4

Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.

E2Y45 70WG Insect Control can be applied by overhead sprinkler chemigation systems. See "CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS - CEREAL GRAINS, CORN (FIELD, POP, SWEET, GROWN FOR SEED), COTTON, CRANBERRY, GRASS FORAGE, FODDER, AND HAY, LEGUMES, MINT (PEPPERMINT AND SPEARMINT), NON-GRASS ANIMAL FEEDS, OILSEED GROUP, PEANUT, POTATO, SOYBEAN, AND SUGARCANE" section for instructions on overhead sprinkler chemigation.

In mint growing areas where the mint root borer degree day model is being used and mint is being grown under sprinkler irrigation: apply E2Y45 70WG Insect Control at 1.5 oz/acre (0.066 lb a.i. per acre) as a foliar spray or via overhead sprinkler chemigation. Time the application between 900 and 1250 growing degree days. Foliar sprays must be followed by sprinkler irrigation before swathing. When making a foliar spray, be sure to include an adjuvant to help obtain thorough coverage. Use only adjuvant products that are labeled for agricultural use and follow the directions on the manufacturer's label.

Always conduct a premix test for compatibility. Use an adjuvant that does not affect foliage.

Mint Root Borer - For applications after the last cutting of mint, apply E2Y45 70WG Insect Control soon after the last cutting of mint, but before the Mint Root Borer form an overwintering hibernaculum. If E2Y45 70WG Insect Control is applied as a broadcast spray, follow application with at least 2 inches water per acre of overhead irrigation. For furrow irrigated mint, apply E2Y45 70WG Insect Control as a broadcast spray soon after harvest. Follow application with two furrow irrigations in order to move E2Y45 70WG Insect Control into the mint root zone before the mint root borer forms a hibernaculum. If E2Y45 70WG Insect Control is applied via overhead chemigation, use a minimum of 2 inches of water per acre to move the E2Y45 70WG Insect Control into the mint root zone.

USE RESTRICTIONS

Do not make more than 4 applications per acre per calendar year.

Minimum interval between treatments is 14 days.

Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.

Do not apply less than 10 gal water per acre by ground when applied as a foliar application.

E2Y45 70WG Insect Control RATE

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Non-grass animal feeds (EPA Crop Group 18) Including: Alfalfa; Bean, velvet; Clover (Trifolium, Melilotus); Kudzu; Lespedeza; Lupin; Sainfoin; Trefoil; Vetch; Vetch, crown; Vetch, milk	FOLIAR	Alfalfa caterpillar	0.047 - 0.098	1.1 – 2.2	0	4
	OVERHEAD CHEMIGATION	Alfalfa looper Beet armyworm Fall armyworm Green cloverworm Western yellowstriped armyworm				
		Grasshoppers	0.027 - 0.066	0.6 – 1.5		

Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.

E2Y45 70WG Insect Control can be applied by overhead sprinkler chemigation systems. See "CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS - CEREAL GRAINS, CORN (FIELD, POP, SWEET, GROWN FOR SEED), COTTON, CRANBERRY, GRASS FORAGE, FODDER, AND HAY, LEGUMES, MINT (PEPPERMINT AND SPEARMINT), NON-GRASS ANIMAL FEEDS, OILSEED GROUP, PEANUT, POTATO, SOYBEAN, AND SUGARCANE" section for instructions on overhead sprinkler chemigation.

Grasshopper - Apply foliarly when grasshopper populations reach local established thresholds to prevent crop damage. Correct timing of spray applications to nymphal stages and thorough coverage is critical to achieve control. Performance is improved with the addition of a Methylated Seed Oil (MSO) adjuvant at 1 gallon per 100 gallons of spray volume (1% v/v) when eggs have hatched and the majority of the grasshopper population is 2nd - 3rd instar nymphs. Once grasshoppers contact and/or ingest E2Y45 70WG Insect Control there will be rapid feeding cessation; insect mortality may not occur until a week later or longer. Do not make more than two sequential applications of E2Y45 70WG Insect Control before rotating to another registered insecticide having a different mode-of-action.

USE RESTRICTIONS

Do not make more than 4 applications per acre per calendar year.

Make one application per cutting.

Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.

Do not apply less than 10 gal water per acre by ground when applied as a foliar application.

E2Y45 70WG Insect Control RATE

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Oilseed Group: (EPA Crop Group 20) except milkweed Including: Borage; Calendula; Canola; Castor oil plant; Chinese tallowtree; Cottonseed; Crambe; Cuphea; Echium; Euphorbia; Evening primrose; Flax seed; Gold of pleasure; Hare's ear mustard; Jojoba; Lesquerella; Lunaria; Meadowfoam; Mustard seed; Niger seed; Oil radish; Poppy seed; Rapeseed; Rose hip; Safflower; Sesame; Stokes aster; Sunflower; Sweet rocket; Tallowwood; Tea oil plant; Vernonia; cultivars, varieties, and/or hybrids of these	FOLIAR	Banded sunflower moth Diamondback moth Sunflower moth	0.047 - 0.098	1.1 – 2.2	1	4
	OVERHEAD CHEMIGATION	Grasshoppers	0.027 - 0.066	0.6 – 1.5		
<p>Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.</p> <p>E2Y45 70WG Insect Control can be applied by overhead sprinkler chemigation systems. See "CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS - CEREAL GRAINS, CORN (FIELD, POP, SWEET, GROWN FOR SEED), COTTON, CRANBERRY, GRASS FORAGE, FODDER, AND HAY, LEGUMES, MINT (PEPPERMINT AND SPEARMINT), NON-GRASS ANIMAL FEEDS, OILSEED GROUP, PEANUT, POTATO, SOYBEAN, AND SUGARCANE" section for instructions on overhead sprinkler chemigation.</p> <p>Banded sunflower moth and sunflower moth - Apply when moth populations reach local established treatment thresholds and as blooms begin to open (sunflower growth stage R-5.0 to R-4.6) to prevent crop damage. Make applications at 5-7 day intervals when moth pressure is heavy.</p> <p>Grasshopper - Apply foliarly when grasshopper populations reach local established thresholds to prevent crop damage. Correct timing of spray applications to nymphal stages and thorough coverage is critical to achieve control. Performance is improved with the addition of a Methylated Seed Oil (MSO) adjuvant at 1 gallon per 100 gallons of spray volume (1% v/v) when eggs have hatched and the majority of the grasshopper population is 2nd - 3rd instar nymphs. Once grasshoppers contact and/or ingest E2Y45 70WG Insect Control there will be rapid feeding cessation; insect mortality may not occur until a week later or longer. Do not make more than two sequential applications of E2Y45 70WG Insect Control before rotating to another registered insecticide having a different mode-of-action.</p> <p>USE RESTRICTIONS Do not make more than 4 applications per acre per calendar year. Minimum interval between treatments is 5 days. Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year. Do not apply less than 10 gal water per acre by ground when applied as a foliar application.</p>						

E2Y45 70WG Insect Control RATE

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Peanut	FOLIAR OVERHEAD CHEMIGATION	Beet armyworm	0.047 - 0.098	1.1 – 2.2	1	4
		Corn earworm				
		Fall armyworm				
		Green cloverworm				
		Lesser cornstalk borer				
		Southern armyworm				
		Tobacco budworm				
		Velvetbean caterpillar				
		Cabbage looper	0.066 - 0.098	1.5 – 2.2		
		Granulate cutworm				
		Soybean looper				
		Grasshoppers	0.027 - 0.066	0.6 – 1.5		

Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.

E2Y45 70WG Insect Control can be applied by overhead sprinkler chemigation systems. See "CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS - CEREAL GRAINS, CORN (FIELD, POP, SWEET, GROWN FOR SEED), COTTON, CRANBERRY, GRASS FORAGE, FODDER, AND HAY, MINT (PEPPERMINT AND SPEARMINT), LEGUMES, NON-GRASS ANIMAL FEEDS, OILSEED GROUP, PEANUT, POTATO, SOYBEAN, AND SUGARCANE" section for instructions on overhead sprinkler chemigation.

Grasshopper - Apply foliarly when grasshopper populations reach local established thresholds to prevent crop damage. Correct timing of spray applications to nymphal stages and thorough coverage is critical to achieve control. Performance is improved with the addition of a Methylated Seed Oil (MSO) adjuvant at 1 gallon per 100 gallons of spray volume (1% v/v) when eggs have hatched and the majority of the grasshopper population is 2nd - 3rd instar nymphs. Once grasshoppers contact and/or ingest E2Y45 70WG Insect Control there will be rapid feeding cessation; insect mortality may not occur until a week later or longer. Do not make more than two sequential applications of E2Y45 70WG Insect Control before rotating to another registered insecticide having a different mode-of-action.

USE RESTRICTIONS
 Do not make more than 4 applications per acre per calendar year.
 Minimum interval between treatments is 5 days.
 Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.
 Do not apply less than 10 gal water per acre by ground when applied as a foliar application.

E2Y45 70WG Insect Control RATE

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Potato	FOLIAR	Beet armyworm Cabbage looper	0.047 - 0.098	1.1 – 2.2	14	4
	OVERHEAD CHEMIGATION	Colorado potato beetle European corn borer Potato tuberworm Yellowstriped armyworm				
		Grasshoppers	0.027 - 0.066	0.6 – 1.5		

Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.

Colorado potato beetle resistance management: Do not apply E2Y45 70WG Insect Control more than twice to a generation of Colorado potato beetle or within any 30 day period. Application(s) to the next generation of Colorado potato beetle must be with an effective product with a different mode of action.

Potato tuberworm: Apply E2Y45 70WG Insect Control at rates of 1.1 – 1.5 oz per acre to control potato tuberworm. Begin application when field scouting indicates the presence of tuberworm adults and/or larvae. Potato tuberworm often have overlapping generations so repeat applications of E2Y45 70WG Insect Control may be needed based on field scouting. Avoid treating successive generations with the same mode of action. It is important to protect the crop just prior to harvest when foliage starts to senesce. Use the high rate of E2Y45 70WG Insect Control where potato tuberworm pressure is high. Failure to adequately control potato tuberworm larvae prior to crop senescence or vine kill increases the risk of tuber damage. Foliar sprays alone, by air or ground, may not provide adequate control of larvae in the mid to lower crop canopy. Performance is improved by applying via overhead chemigation. Alternatively, integrate chemigation applications into the foliar spray program. Performance is improved with the addition of a Methylated Seed Oil (MSO) adjuvant at 1 gallon per 100 gallons of spray volume (1% v/v). For chemigation applications, apply in 0.1 to 0.2 inches of water per acre and add MSO at 12 to 16 oz/acre. E2Y45 70WG Insect Control can be applied via overhead sprinkler chemigation systems.

Do not apply E2Y45 70WG Insect Control more than once to Colorado potato beetle via overhead chemigation. E2Y45 70WG Insect Control may only be applied to potatoes as a direct foliar spray or via chemigation through overhead sprinkler irrigation systems. See "CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS - CEREAL GRAINS, CORN (FIELD, POP, SWEET, GROWN FOR SEED), COTTON, CRANBERRY, GRASS FORAGE, FODDER, AND HAY, LEGUMES, MINT (PEPPERMINT AND SPEARMINT), NON-GRASS ANIMAL FEEDS, OILSEED GROUP, PEANUT, POTATO, SOYBEAN, AND SUGARCANE" section for instructions on overhead sprinkler chemigation.

Cabbage looper: West of the Rocky Mountains - (NM, CO, WY, MT, UT, NV, AZ, ID, WA, OR, CA, AK and HI) apply E2Y45 70WG Insect Control at 0.6 – 1.1 oz per acre (0.027 - 0.047 lb ai/acre) to control early stage instars (1st - 3rd instar).

Colorado potato beetle: West of the Rocky Mountains - (NM, CO, WY, MT, UT, NV, AZ, ID, WA, OR, CA, AK and HI) apply E2Y45 70WG Insect Control at 0.6 – 1.1 oz per acre (0.027 - 0.047 lb ai/acre) to control local populations of Colorado Potato Beetle believed to be sensitive to most commonly used insecticides. Apply just prior to or just after egg hatch while larvae are small. In some areas, where local populations of Colorado Potato Beetle have elevated levels of resistance to insecticides, use E2Y45 70WG Insect Control at the 1.5 ounce per acre application rate. With resistant populations of Colorado Potato Beetle, back-to- back applications on 5 to 7 day intervals may be required to achieve maximum control.

Grasshopper - Apply foliarly when grasshopper populations reach local established thresholds to prevent crop damage. Correct timing of spray applications to nymphal stages and thorough coverage is critical to achieve control. Performance is improved with the addition of a Methylated Seed Oil (MSO) adjuvant at 1 gallon per 100 gallons of spray volume (1% v/v) when eggs have hatched and the majority of the grasshopper population is 2nd - 3rd instar nymphs. Once grasshoppers contact and/or ingest E2Y45 70WG Insect Control there will be rapid feeding cessation; insect mortality may not occur until a week later or longer. Do not make more than two sequential applications of E2Y45 70WG Insect Control before rotating to another registered insecticide having a different mode-of-action.

USE RESTRICTIONS

Do not make more than 4 applications per acre per calendar year.

Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year. The minimum interval between treatments is 5 days.

Do not apply less than 10 gal water per acre by ground when applied as a foliar application.

E2Y45 70WG Insect Control RATE

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Root and Tuber Vegetables (EPA Crop Group 1), except potato Including: Arracacha; Arrowroot; Artichoke, Chinese; Artichoke, Jerusalem; Beet, garden; Beet, sugar; Burdock, edible; Canna, edible; Carrot; Cassava, bitter and sweet; Celeriac; Chayote (root); Chervil, turnip-rooted; Chicory; Chufa; Dasheen (taro); Ginger; Ginseng; Horseradish; Leren; Parsley, turnip-rooted; Parsnip; Radish; Radish, oriental; Rutabaga; Salsify; Salsify, black; Salsify, Spanish; Skirret; Sweet potato; Tanier; Turmeric; Turnip; Yam bean; Yam, true.	FOLIAR	Beet armyworm Western yellowstriped armyworm	0.047 - 0.098	1.1 – 2.2	1	4
Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.						
USE RESTRICTIONS Do not make more than 4 applications per acre per crop or 16 applications per acre per calendar year. Minimum interval between treatments is 3 days. Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per crop. Do not apply more than 18.3 oz E2Y45 70WG Insect Control or 0.8 lb a.i. of chlorantraniliprole containing products per acre per calendar year; in NY do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year. Do not apply less than 10 gal water per acre by ground when applied as a foliar application.						

E2Y45 70WG Insect Control RATE

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Leaves of Root and Tuber Vegetables (EPA Crop Group 2) (Human Food or Animal Feed) Including: Beet, garden; Beet, sugar; Burdock, edible; Carrot; Cassava, bitter and sweet; Celeriac; Chervil, turnip-rooted; Chicory; Dasheen (taro); Parsnip; Radish; Radish, oriental (daikon); Rutabaga; Salsify, black; Sweet potato; Tanier; Turnip; Yam, true	FOLIAR	Beet armyworm Western yellowstriped armyworm	0.047 - 0.098	1.1 – 2.2	1	4
		Grasshoppers	0.027 – 0.066	0.6 – 1.5		

Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.

Grasshopper - Apply foliarly when grasshopper populations reach local established thresholds to prevent crop damage. Correct timing of spray applications to nymphal stages and thorough coverage is critical to achieve control. Performance is improved with the addition of a Methylated Seed Oil (MSO) adjuvant at 1 gallon per 100 gallons of spray volume (1% v/v) when eggs have hatched and the majority of the grasshopper population is 2nd - 3rd instar nymphs. Once grasshoppers contact and/or ingest E2Y45 70WG Insect Control there will be rapid feeding cessation; insect mortality may not occur until a week later or longer. Do not make more than two sequential applications of E2Y45 70WG Insect Control before rotating to another registered insecticide having a different mode-of-action.

USE RESTRICTIONS

Do not make more than 4 applications per acre per crop or 16 applications per acre per calendar year.
Minimum interval between treatments is 3 days.

Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per crop.

Do not apply more than 18.3 oz E2Y45 70WG Insect Control or 0.8 lb a.i. of chlorantraniliprole containing products per acre per calendar year; in NY do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.

Do not apply less than 10 gal water per acre by ground when applied as a foliar application.

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Rice [<i>OPTIONAL TEXT</i> : (except California)]	SOIL APPLICATION† Broadcast spray	Rice water weevil larvae	0.08 – 0.1	1.8 – 2.3	N/A	4

USE RESTRICTIONS

Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.

† Only for application as a broadcast spray to soil: For water-seeded rice, apply E2Y45 70WG Insect Control to soil surface prior to seeding and flooding. For dry-seed rice, E2Y45 70WG Insect Control may be applied to the surface of the soil before, during or after planting, but application must be made before rice emergence.

Do not apply more than 5 days prior to flooding.

Once flood is established, hold the water for a minimum of 14 days before discharging the water.

Broadcast application may be made using aerial or ground application equipment.

Do not apply more than 2.3 oz E2Y45 70WG Insect Control or 0.1 lb a.i. of chlorantraniliprole containing products per acre per calendar year.

Do not use E2Y45 70WG Insect Control treated rice fields for the aquaculture of edible fish or crustacea (including crawfish) during the rice production cycle (planting through harvest).

Do not apply less than 10 gal water per acre by ground.

E2Y45 70WG Insect Control RATE

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Spice (EPA Crop Subgroup 19B) Including: Allspice; Anise (seed); Anise, star; Annatto (seed); Caper (buds); Caraway; Caraway, black; Cardamom; Cassia (bark); Cassia (buds); Celery (seed); Cinnamon; Clove (buds); Coriander (seed); Culantro (seed); Cumin; Dill (seed); Fennel, common; Fennel, Florence (seed); Fenugreek; Grains of paradise; Juniper (berry); Lovage (seed); Mace; Mustard (seed); Nutmeg; Pepper, black; Pepper, white; Poppy (seed); Saffron; Vanilla	FOLIAR	Beet armyworm Cabbage looper Corn earworm Fall armyworm Southern armyworm	0.047 – 0.066	1.1 – 1.5	1	4

Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.

PLANT TOLERANCE PHYTOTOXICITY

E2Y45 70WG Insect Control has been tested on numerous crops and cultivars with no observable phytotoxicity at label rates. However, neither the manufacturer nor the seller has determined whether or not E2Y45 70WG Insect Control can be used safely on all herbs and spices for which it is registered for use.

Since all herbs and spices and their varieties and cultivars have not been tested for phytotoxicity it is recommended that a small number of plants be sprayed initially to determine if there is any phytotoxicity prior to large scale applications to herbs and spices. The user assumes all risks arising from application of E2Y45 70WG Insect Control in a manner that is inconsistent with its labeling.

USE RESTRICTIONS

Do not make more than 4 applications per acre per crop or 16 applications per acre per calendar year. Minimum interval between treatments is 3 days.
Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per crop.
Do not apply more than 18.3 oz E2Y45 70WG Insect Control or 0.8 lb a.i. of chlorantraniliprole containing products per acre per calendar year; in NY do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.
Do not apply less than 10 gal water per acre by ground.

E2Y45 70WG Insect Control RATE

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Soybean Including edamame (immature soybean)	FOLIAR	Beet armyworm Cabbage looper Corn earworm	0.047 - 0.098	1.1 – 2.2	1	4
	OVERHEAD CHEMIGATION	Cutworms Fall armyworm Garden webworm Green cloverworm Lesser cornstalk borer Southern armyworm Soybean looper Thistle caterpillar Tobacco budworm Velvetbean caterpillar Woollybear caterpillar				
		Grasshoppers				
		Dectes stem borer	0.066 - 0.098	1.5 – 2.2		

Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.

E2Y45 70WG Insect Control can be applied by overhead sprinkler chemigation systems. See "CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS - CEREAL GRAINS, CORN (FIELD, POP, SWEET, GROWN FOR SEED), COTTON, CRANBERRY, GRASS FORAGE, FODDER, AND HAY, LEGUMES, MINT (PEPPERMINT AND SPEARMINT), NON-GRASS ANIMAL FEEDS, OILSEED GROUP, PEANUT, POTATO, SOYBEAN, AND SUGARCANE" section for instructions on overhead sprinkler chemigation.

Grasshopper -Apply foliarly when grasshopper populations reach local established thresholds to prevent crop damage. Correct timing of spray applications to nymphal stages and thorough coverage is critical to achieve control. Performance is improved with the addition of a Methylated Seed Oil (MSO) adjuvant at 1 gallon per 100 gallons of spray volume (1% v/v) when eggs have hatched and the majority of the grasshopper population is 2nd - 3rd instar nymphs. Once grasshoppers contact and/or ingest E2Y45 70WG Insect Control there will be rapid feeding cessation; insect mortality may not occur until a week later or longer. Do not make more than two sequential applications of E2Y45 70WG Insect Control before rotating to another registered insecticide having a different mode-of-action.

Dectes stem borer - To minimize crop damage by the pest, apply at the onset of adult beetle flight. Ensure thorough spray coverage and make application to soybeans prior to egg laying. For best results, regular scouting using a sweep net is necessary to identify the emergence and infestation of adult beetles. If regular scouting is not used, apply at 1500 Growing Degree Days (GDD) in Nebraska and northern Kansas or consult with your local agricultural advisor for advice on application timing. Continued scouting should be used to track the duration of the emergence period. A second application may be necessary at 3 to 4 weeks after the initial application if adults continue to emerge over an extended period.

USE RESTRICTIONS

Do not make more than 4 applications per acre per calendar year.

Minimum interval between treatments is 3 days.

Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.

Do not apply less than 10 gal water per acre by ground when applied as a foliar application.

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Strawberry	FOLIAR	Beet armyworm Cabbage looper Corn earworm Japanese beetle (adult) Light brown apple moth	0.047 - 0.098	1.1 – 2.2	1	4

Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.

Light brown apple moth - Make the first application at initiation of egg hatch, small larvae or at first signs of infestation for each generation. Use the higher application rate for moderate to heavy insect pressure. Make application before pests reach damaging levels. Monitor fields and make an additional application if populations rebuild to potentially damaging levels. Apply in sufficient water to obtain thorough and uniform cover of foliage and fruit. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action threshold levels for this pest in strawberry.

USE RESTRICTIONS

Do not make more than 4 applications per acre per crop or 8 applications per acre per calendar year.

Minimum interval between treatments is 7 days.

Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per crop.

Do not apply more than 9.1 oz E2Y45 70WG Insect Control or 0.4 lb a.i. of chlorantraniliprole containing products per acre per calendar year; in NY do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.

Do not apply less than 10 gal water per acre by ground when applied as a foliar application.

E2Y45 70WG Insect Control RATE

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Sugarcane	FOLIAR	Mexican rice borer Sugarcane borer	0.047 - 0.098	1.1 – 2.2	14	4
	OVERHEAD CHEMIGATION	Grasshoppers	0.027 - 0.066	0.6 – 1.5		

Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.

E2Y45 70WG Insect Control can be applied by overhead sprinkler chemigation systems. See "CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS - CEREAL GRAINS, CORN (FIELD, POP, SWEET, GROWN FOR SEED), COTTON, CRANBERRY, GRASS FORAGE, FODDER, AND HAY, LEGUMES, MINT (PEPPERMINT AND SPEARMINT), NON-GRASS ANIMAL FEEDS, OILSEED GROUP, PEANUT, POTATO, SOYBEAN, AND SUGARCANE" section for instructions on overhead sprinkler chemigation.

Mexican rice borer - Make the application at initiation of egg hatch, small larvae or at first signs of infestation. The lower recommended rate range can be used when shorter residual control is needed. Use the higher recommended rate range for heavy insect pressure or when longer residual control is desired. Make the application before pests reach damaging levels. Apply in sufficient water to obtain thorough and uniform cover of foliage. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action threshold levels for these pests in sugarcane.

Grasshopper - Apply foliarly when grasshopper populations reach local established thresholds to prevent crop damage. Correct timing of spray applications to nymphal stages and thorough coverage is critical to achieve control. Performance is improved with the addition of a Methylated Seed Oil (MSO) adjuvant at 1 gallon per 100 gallons of spray volume (1% v/v) when eggs have hatched and the majority of the grasshopper population is 2nd - 3rd instar nymphs. Once grasshoppers contact and/or ingest E2Y45 70WG Insect Control there will be rapid feeding cessation; insect mortality may not occur until a week later or longer. Do not make more than two sequential applications of E2Y45 70WG Insect Control before rotating to another registered insecticide having a different mode-of-action.

USE RESTRICTIONS

Do not make more than 4 applications per acre per calendar year.

Minimum interval between treatments is 7 days.

Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.

Do not apply less than 10 gal water per acre by ground when applied as a foliar application.

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Teff	FOLIAR	Beet armyworm Corn earworm European corn borer Fall armyworm Grasshoppers Sorghum webworm Southwestern corn borer Sugarcane borer True armyworm	0.047 – 0.066	1.1 – 1.5	14	4

Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.

USE RESTRICTIONS

Do not make more than 4 applications per acre per calendar year.

Minimum interval between treatments is 7 days.

Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.

Do not apply less than 10 gal water per acre by ground.

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Forage, Fodder, and Straw of Teff	FOLIAR	Beet armyworm Corn earworm European corn borer Fall armyworm Grasshoppers Sorghum webworm Southwestern corn borer Sugarcane borer True armyworm	0.047 – 0.066	1.1 – 1.5	14	4

Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.

USE RESTRICTIONS

Do not make more than 4 applications per acre per calendar year.

Minimum interval between treatments is 7 days.

Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.

Do not apply less than 10 gal water per acre by ground.

E2Y45 70WG Insect Control RATE

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Quinoa	FOLIAR	Beet armyworm Corn earworm European corn borer Fall armyworm Grasshoppers Sorghum webworm Southwestern corn borer Sugarcane borer True armyworm	0.047 – 0.066	1.1 – 1.5	14	4
<p>Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.</p> <p>USE RESTRICTIONS Do not make more than 4 applications per acre per calendar year. Minimum interval between treatments is 7 days. Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year. Do not apply less than 10 gal water per acre by ground.</p>						

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Tobacco	FOLIAR	Split worm (potato tuberworm)	0.047 - 0.098	1.1 – 2.2	1	4
		Tobacco budworm Tobacco hornworm Tomato hornworm				
	Grasshoppers	0.027 – 0.066	0.6 – 1.5			
	SOIL AT PLANTING† (transplant water treatment only)	Tobacco budworm Tobacco hornworm Tomato hornworm	0.066 - 0.098	1.5 – 2.2		
<p>Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.</p> <p>USE RESTRICTIONS Do not make more than 4 applications per acre per calendar year. Minimum interval between treatments is 3 days. Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year. Do not apply less than 10 gal water per acre by ground when applied as a foliar application. †SOIL APPLICATIONS (transplant water treatment at planting): See Rate Conversion Chart in the Chemigation section of this label for rate per 1000 linear ft. E2Y45 70WG Insect Control must be applied uniformly in the root zone or poor performance will result. Do not apply more than 2.2 oz (0.098 lb ai per acre) of E2Y45 70WG Insect Control to the soil at planting. Refer to the SOIL APPLICATION section of this label for additional guidance.</p>						

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Banana; Plantain	FOLIAR	Leafrollers	0.066 - 0.098	1.5 – 2.2	1	4
<p>Spray Volume: Thorough coverage is essential. Select a spray volume appropriate for the size of trees or plants and density of foliage.</p> <p>USE RESTRICTIONS Do not make more than 3 applications per acre per calendar year. Minimum interval between treatments is 10 days. Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year. Do not apply dilute applications of more than 200 gal water per acre. Do not apply less than 30 gal water per acre by ground. For best results apply 100 - 150 gal water per acre.</p>						

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Bushberry subgroup (Berry and small fruit crop group), (EPA Crop Subgroup 13-07B), Including: Aronia berry; Blueberry, highbush; Blueberry, lowbush; Buffalo currant; Chilean guava; Cranberry, highbush; Currant, black; Currant, red; Elderberry; European barberry; Gooseberry; Honeysuckle, edible; Huckleberry; Jostaberry; Juneberry (Saskatoon berry); Lingonberry; Native currant; Salal; Sea buckthorn; cultivars, varieties, and/or hybrids of these	FOLIAR	Cherry fruitworm Cranberry fruitworm Japanese beetle (adult)* Omnivorous leafroller Raspberry crown borer	0.066 - 0.098	1.5 – 2.2	1	4

Spray Volume: Thorough coverage is essential. Select a spray volume appropriate for the size of trees or plants and density of foliage.
 * Japanese beetle (adult) - use the high application rate for moderate to heavy infestations.

USE RESTRICTIONS
 Do not make more than 3 applications per acre per calendar year.
 Minimum interval between treatments is 7 days.
 Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.
 Do not apply dilute applications of more than 200 gal water per acre. Do not apply less than 30 gal water per acre by ground. For best results apply 100 - 150 gal water per acre.

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Large shrub/tree subgroup (Berry and small fruit crop group), (EPA Crop Subgroup 13-07C), Including: Bayberry; buffaloberry; che; chokecherry; elderberry; Juneberry (Saskatoon berry); mountain pepper berries; mulberry; phalsa; pincherry; riberry; salal; serviceberry; cultivars, varieties, and/or hybrids of these	FOLIAR	Omnivorous leafroller Raspberry crown borer	0.066 - 0.098	1.5 – 2.2	1	4

Spray Volume: Thorough coverage is essential. Select a spray volume appropriate for the size of trees or plants and density of foliage.

USE RESTRICTIONS
 Do not make more than 3 applications per acre per calendar year.
 Minimum interval between treatments is 7 days.
 Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.
 Do not apply dilute applications of more than 200 gal water per acre. Do not apply less than 30 gal water per acre by ground. For best results apply 100 - 150 gal water per acre.

E2Y45 70WG Insect Control RATE

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Low growing berry subgroup except cranberry and strawberry (Berry and small fruit crop group), (EPA Crop Subgroup 13-07G), Including: Bearberry; bilberry; blueberry, lowbush; cloudberry; lingonberry; muntries; partridgeberry; cultivars, varieties, and/or hybrids of these	FOLIAR	Cherry fruitworm Cranberry fruitworm Japanese beetle (adult)* Omnivorous leafroller Raspberry crown borer	0.066 - 0.098	1.5 – 2.2	1	4

Spray Volume: Thorough coverage is essential. Select a spray volume appropriate for the size of trees or plants and density of foliage.
* Japanese beetle (adult) - use the high application rate for moderate to heavy infestations.

USE RESTRICTIONS

Do not make more than 3 applications per acre per calendar year.

Minimum interval between treatments is 7 days.

Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.

Do not apply dilute applications of more than 200 gal water per acre. Do not apply less than 30 gal water per acre by ground. For best results apply 100 - 150 gal water per acre.

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Cranberry	FOLIAR OVERHEAD CHEMIGATION	Blackheaded fireworm* Cherry fruitworm Cranberry fruitworm Green spanworm Omnivorous leafroller Raspberry crown borer Sparganothis fruitworm	0.066 - 0.098	1.5 – 2.2	1	4

Spray Volume: Thorough coverage is essential. Select a spray volume appropriate for the size of trees or plants and density of foliage.

E2Y45 70WG Insect Control can be applied by overhead sprinkler chemigation systems. See "CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS - CEREAL GRAINS, CORN (FIELD, POP, SWEET, GROWN FOR SEED), COTTON, CRANBERRY, GRASS FORAGE, FODDER, AND HAY, LEGUMES, MINT (PEPPERMINT AND SPEARMINT), NON-GRASS ANIMAL FEEDS, OILSEED GROUP, PEANUT, POTATO, SOYBEAN, AND SUGARCANE" section for instructions on overhead sprinkler chemigation.

* Blackheaded fireworm - use high application rate for moderate to heavy infestations

USE RESTRICTIONS

Do not make more than 3 applications per acre per calendar year.

Minimum interval between treatments is 7 days.

Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.

Do not apply less than 20 gal water per acre by ground application. Do not apply less than 5 gal water per acre by aerial application.

E2Y45 70WG Insect Control RATE

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Caneberry subgroup (Berry and small fruit crop group), (EPA Crop Subgroup 13-07A), Including: Blackberry; loganberry; red and black raspberry cultivars and/or hybrids of these	FOLIAR	Light brown apple moth Omnivorous leafroller Raspberry crown borer*	0.066 - 0.098	1.5 – 2.2	3	4

Spray Volume: Thorough coverage is essential. Select a spray volume appropriate for the size of trees or plants and density of foliage.
 *Raspberry crown borer - For control of Raspberry crown borer, apply E2Y45 70WG Insect Control as a directed foliar application, using a spray volume of 50 to 100 gallons/acre, directed to base of canes. Apply in early fall right after egg hatch or in early spring when larvae first become active and start to feed on the crown of the plant. Time the application when rainfall (minimum of 1/2 inch) is forecast or when overhead irrigation (minimum of 1/2 inch water per acre) can be used to move E2Y45 70WG Insect Control into the plant root zone in order to control raspberry crown borer.

USE RESTRICTIONS

Do not make more than 3 applications per acre per calendar year.
 Minimum interval between treatments is 14 days.
 Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.
 Do not apply dilute applications of more than 200 gal water per acre. Do not apply less than 30 gal water per acre by ground. For best results apply 100 - 150 gal water per acre.

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Small fruit vine climbing subgroup except fuzzy kiwifruit and grape, (Berry and small fruit crop group), (EPA Crop Subgroup 13-07F), Including: Amur river grape; gooseberry; kiwifruit, hardy; maypop; schisandra berry; cultivars, varieties, and/or hybrids of these	FOLIAR	Omnivorous leafroller Raspberry crown borer	0.066 - 0.098	1.5 – 2.2	1	4

Spray Volume: Thorough coverage is essential. Select a spray volume appropriate for the size of trees or plants and density of foliage.

USE RESTRICTIONS

Do not make more than 3 applications per acre per calendar year.
 Minimum interval between treatments is 7 days.
 Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.
 Do not apply dilute applications of more than 200 gal water per acre. Do not apply less than 30 gal water per acre by ground. For best results apply 100 - 150 gal water per acre.

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Cacao	FOLIAR	Cacao pod borer	0.066 - 0.098	1.5 – 2.2	1	4

Spray Volume: Thorough coverage is essential. Select a spray volume appropriate for the size of trees or plants and density of foliage.

USE RESTRICTIONS

Do not make more than 3 applications per acre per calendar year.
 Minimum interval between treatments is 7 days.
 Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.
 Do not apply dilute applications of more than 200 gal water per acre. Do not apply less than 30 gal water per acre by ground. For best results apply 100 - 150 gal water per acre.

E2Y45 70WG Insect Control RATE

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Citrus, (EPA Crop Group 10-10), Including: Calamondin; citrus citron; citrus hybrids (includes chironja, tangelo, tangor); grapefruit; kumquat; lemon; lime; mandarin (tangerine); orange, sour; orange, sweet; pummelo; Satsuma mandarin Australian desert lime; Australian finger- lime; Australian round lime;Brown River finger lime; Japanese summer Mediterranean mandarin; Mount white lime; New Guinea wild lime;Russell River lime;Sweet lime; Tachibana orange; Tahiti lime; Trifoliolate orange; Uniq fruit; cultivars, varieties, and/or hybrids of these	FOLIAR	Citrus leafminer Citrus peelminer Katydid (nymphs)* Light brown apple moth Omnivorous leafroller	0.066 - 0.098	1.5 – 2.2	1	4

Spray Volume: Thorough coverage is essential. Select a spray volume appropriate for the size of trees or plants and density of foliage. Where higher spray volumes are used, apply a higher E2Y45 70WG Insect Control rate in the specified rate range.
 *Suppression of katydid (nymphs) - Forktailed bush katydid (*Scudderia furcata*), Angularwinged katydid (*Microcentrum retinerve*). Correct timing of spray application is to nymphal stages. Use the higher application rate for moderate to heavy insect pressure. Apply at first indication of Katydid nymphs. Allow 5 to 7 days to achieve maximum results. Make repeat applications on a 7 to 10 day schedule if monitoring indicates continued feeding activity.

USE RESTRICTIONS

Do not make more than 3 applications per acre per calendar year.
 Minimum interval between treatments is 7 days.
 Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.
 Do not apply less than 30 gal water per acre by ground. For best results apply 100 -150 gal water per acre.

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Coffee	FOLIAR	Coffee leafminer	0.066 - 0.098	1.5 – 2.2	7	4

Spray Volume: Thorough coverage is essential. Select a spray volume appropriate for the size of trees or plants and density of foliage.

USE RESTRICTIONS

Do not make more than 3 applications per acre per calendar year.
 Minimum interval between treatments is 14 days.
 Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.
 Do not apply dilute applications of more than 200 gal water per acre. Do not apply less than 30 gal water per acre by ground. For best results apply 100 - 150 gal water per acre.

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Figs	FOLIAR	Navel orangeworm	0.066 - 0.098	1.5 – 2.2	1	4

Spray Volume: Thorough coverage is essential. Select a spray volume appropriate for the size of trees or plants and density of foliage.

USE RESTRICTIONS

Do not make more than 3 applications per acre per calendar year.
 Minimum interval between treatments is 7 days.
 Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.
 Do not apply dilute applications of more than 200 gal water per acre. Do not apply less than 30 gal water per acre by ground. For best results apply 100 - 150 gal water per acre.

E2Y45 70WG Insect Control RATE

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Grape	FOLIAR	Grape berry moth Grape leafroller	0.047 - 0.098	1.1 – 2.2	14	4
		Climbing cutworm European grapevine moth Japanese beetle (adult)* Katydid (nymphs)** Light brown apple moth Raisin moth Western grapeleaf skeletonizer	0.066 - 0.098	1.5 – 2.2		
		Omnivorous leafroller	0.055 - 0.098	1.3 – 2.2		

Spray Volume: Thorough coverage is essential. Select a spray volume appropriate for the size of trees or plants and density of foliage. When using higher volume spray solutions, apply a higher E2Y45 70WG Insect Control rate in the specified rate range.

* **Japanese beetle (adult)** - use the high application rate for moderate to heavy infestations.

**Suppression of katydid (nymphs) - Forktailed bush katydid (*Scudderia furcata*), Angularwinged katydid (*Microcentrum retinerve*): Correct timing of spray application is to nymphal stages. Use the higher application rate for moderate to heavy insect pressure. Apply at first indication of Katydid nymphs. Allow 5 to 7 days to achieve maximum results. Make repeat applications on a 7 to 10 day schedule if monitoring indicates continued feeding activity.

Omnivorous leafroller - Make the first application at initiation of egg hatch, small larvae or first signs of infestations for each generation. Use higher rates of E2Y45 70WG Insect Control for moderate to heavy insect pressure.

Raisin moth - Make the first application at initiation of egg generation. Use the higher application rate for moderate to heavy insect pressure.

USE RESTRICTIONS

Do not make more than 4 applications per acre per calendar year.

Minimum interval between treatments is 7 days.

Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.

Do not apply less than 30 gal water per acre by ground. For best results apply 100 -150 gal water per acre.

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Olives	FOLIAR	American plum borer European grapevine moth	0.066 - 0.098	1.5 – 2.2	1	4

Spray Volume: Thorough coverage is essential to achieve best results. Select a spray volume appropriate for the size of trees or plants and density of foliage.

USE RESTRICTIONS

Do not make more than 3 applications per acre per calendar year.

Minimum interval between treatments is 7 days.

Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.

Do not apply dilute applications of more than 200 gal water per acre. Do not apply less than 30 gal water per acre by ground. For best results apply 100 - 150 gal water per acre.

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Persimmons	FOLIAR	Leafrollers	0.066 - 0.098	1.5 – 2.2	1	4

Spray Volume: Thorough coverage is essential to achieve best results. Select a spray volume appropriate for the size of trees or plants and density of foliage.

USE RESTRICTIONS

Do not make more than 3 applications per acre per calendar year.

Minimum interval between treatments is 7 days.

Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.

Do not apply dilute applications of more than 200 gal water per acre. Do not apply less than 30 gal water per acre by ground. For best results apply 100 - 150 gal water per acre.

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Pome Fruits, (EPA Crop Group 11-10), Including: Apple; Crabapple; Loquat; Mayhaw; Pear; Pear, oriental; Quince	FOLIAR	Green fruitworm Spotted tentiform leafminer Western tentiform leafminer	0.055 - 0.098	1.3 – 2.2	5	4
		Apple maggot* Codling moth** European apple sawfly European corn borer Light brown apple moth Obliquebanded leafroller*** Oriental fruit moth Pandemis leafroller Plum curculio* Redbanded leafroller Tufted apple bud moth Variegated leafroller White apple leafhopper*	0.055 - 0.098 Western U.S. States†: 0.066 - 0.098	1.3 – 2.2 Western U.S. States†: 1.5 – 2.2		

Spray Volume: Thorough coverage is essential. Select a spray volume appropriate for the size of trees and density of foliage.

* Suppression only.

** **Codling Moth:** Make first application prior to egg hatch. Each application provides 10 to 17 days of protection depending on intensity of codling moth pressure and rate of fruit growth. Applications with an EPA registered horticultural oil may improve performance; for specific recommendations on use of oil, consult manufacturers specific oil labels for precautions and restrictions regarding the use of oils in pome fruit. Use pheromone trap catches and local degree day based spray timing advisories to determine the development of each generation. Higher rates in the labeled rate range may be needed for high infestation levels and/or large, dense foliage trees.

Codling Moth Resistance Management: Do not apply E2Y45 70WG Insect Control (or other Group 28 insecticides) more than three times to a generation of codling moth (codling moth typically has a single generation “treatment window” of 30 to 45 days). Application(s) to the next generation of codling moth must be with an effective product(s) with a different mode of action (different IRAC group number) for at least a 30 day “treatment window” before making any additional applications of E2Y45 70WG Insect Control (or other Group 28 insecticides).

Apples - Western U.S. States†: Use the 1.5 oz/acre rate for low pressure infestations and make repeat applications on a 14 day schedule. For high pressure infestations or for orchards with a history of significant codling moth damage, apply E2Y45 70WG Insect Control at 2.1 to 2.2 ounces per acre. Make repeat applications on a 10 to 17 day schedule. For best results in high pressure orchards, use a comprehensive management program involving ovicide treatments followed by properly timed larvicide applications at high labeled rates and shortened retreatment intervals.

When using E2Y45 70WG Insect Control in an integrated program with other codling moth insecticides, make sure the retreatment schedule is consistent with the period of effectiveness for each product used.

Pears - Western U.S. States†: Apply E2Y45 70WG Insect Control on a 14 to 17 day schedule. For low pressure infestations use the 1.5 oz rate. For high pressure infestations or for orchards with a history of significant codling moth damage, apply E2Y45 70WG Insect Control at 2.1 to 2.2 oz/acre.

*****Obliquebanded Leafroller:** For overwintering larvae, apply in the spring (pink to petal fall stage) at first sign of active feeding. For summer generation apply just prior to or at the beginning of egg hatch. Leafroller feeding stops after ingestion of treated foliage, however, during periods of cold weather when leafrollers are inactive, it may take several days to achieve complete control. Applications with an EPA registered horticultural oil may improve performance; for specific recommendations on use of oil, consult manufacturers specific oil labels for precautions and restrictions regarding the use of oils in pome fruit. Higher rates in the labeled rate range may be needed for high infestations levels and/or large, dense foliage trees.

Obliquebanded Leafroller Resistance Management: Only apply E2Y45 70WG Insect Control (or other Group 28 insecticides) to one generation of obliquebanded leafroller per year. Application(s) to other generations of obliquebanded leafroller must be with an effective product with a different mode of action (i.e. a product with a different IRAC group number).

Effect on beneficial insects - Beneficial insects such as predators or parasitoids are an important component in pome fruit IPM. E2Y45 70WG Insect Control has demonstrated low to no impact on the predator *Deraeocoris brevis* and key parasitoids, *Aphelinus mali*, *Aphytis* spp., and *Encarsia* spp. This low impact is very important in preservation of biological control of pear psylla, San Jose scale and wooly apple aphid when E2Y45 70WG Insect Control is applied early season for control of first generation codling moth.

† Includes states of AZ, CA, CO, ID, MT, NV, NM, OR, UT, WA, and WY.

USE RESTRICTIONS

Do not make more than 3 applications per acre per calendar year.

Minimum interval between treatments is 10 days.

Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.

Do not apply dilute applications of more than 200 gal water per acre. For best results apply 100 – 150 gal water per acre.

Do not apply less than 30 gal water per acre by ground.

E2Y45 70WG Insect Control RATE

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Azarole; Medlar; Tejacote; cultivars, varieties, and/or hybrids of these	FOLIAR	Green fruitworm Spotted tentiform leafminer Western tentiform leafminer	0.055 - 0.098	1.3 – 2.2	5	4
		Apple maggot* European apple sawfly European corn borer Light brown apple moth Obliquebanded leafroller** Oriental fruit moth Pandemis leafroller Plum curculio* Redbanded leafroller Tufted apple bud moth Variegated leafroller White apple leafhopper*	0.055 - 0.098 Western U.S. States†: 0.066 - 0.098	1.3 – 2.2 Western U.S. States†: 1.5 – 2.2		

Spray Volume: Thorough coverage is essential. Select a spray volume appropriate for the size of trees and density of foliage.

* Suppression only.

****Obliquebanded Leafroller:** For overwintering larvae, apply in the spring (pink to petal fall stage) at first sign of active feeding. For summer generation apply just prior to or at the beginning of egg hatch. Leafroller feeding stops after ingestion of treated foliage, however, during periods of cold weather when leafrollers are inactive, it may take several days to achieve complete control. Applications with an EPA registered horticultural oil may improve performance; for specific recommendations on use of oil, consult manufacturers specific oil labels for precautions and restrictions regarding the use of oils in pome fruit. Higher rates in the labeled rate range may be needed for high infestations levels and/or large, dense foliage trees.

Obliquebanded Leafroller Resistance Management: Only apply E2Y45 70WG Insect Control (or other Group 28 insecticides) to one generation of obliquebanded leafroller per year. Application(s) to other generations of obliquebanded leafroller must be with an effective product with a different mode of action (i.e. a product with a different IRAC group number).

Effect on beneficial insects - Beneficial insects such as predators or parasitoids are an important component in pome fruit IPM. E2Y45 70WG Insect Control has demonstrated low to no impact on the predator *Deraeocoris brevis* and key parasitoids, *Aphelinus mali*, *Aphytis* spp., and *Encarsia* spp. This low impact is very important in preservation of biological control of pear psylla, San Jose scale and wooly apple aphid when E2Y45 70WG Insect Control is applied early season for control of first generation codling moth.

† Includes states of AZ, CA, CO, ID, MT, NV, NM, OR, UT, WA, and WY.

USE RESTRICTIONS

Do not make more than 3 applications per acre per calendar year.

Minimum interval between treatments is 10 days.

Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.

Do not apply dilute applications of more than 200 gal water per acre. For best results apply 100 – 150 gal water per acre.

Do not apply less than 30 gal water per acre by ground.

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Pomegranates	FOLIAR	Navel orangeworm Omnivorous leafroller	0.066 - 0.098	1.5 – 2.2	1	4

Spray Volume: Thorough coverage is essential. Select a spray volume appropriate for the size of trees or plants and density of foliage.

USE RESTRICTIONS

Do not make more than 3 applications per acre per calendar year.

Minimum interval between treatments is 7 days.

Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.

Do not apply dilute applications of more than 200 gal water per acre. Do not apply less than 30 gal water per acre by ground. For best results apply 100 - 150 gal water per acre.

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Prickly Pear Cactus	FOLIAR	Prickly pear moth	0.066 - 0.098	1.5 – 2.2	1	4

USE RESTRICTIONS

Do not make more than 3 applications per acre per calendar year.

Minimum interval between treatments is 10 days.

Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.

E2Y45 70WG Insect Control RATE

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Stone Fruits, (EPA Crop Group 12-12), Including: Apricot; Cherry, sweet; Cherry, tart; Nectarine; Peach; Plum; Plum, Chickasaw; Plum, Damson; Plum, Japanese; Plumcot; Prune (fresh) Apricot, Japanese; Capulin; Cherry, black; Cherry Nanking; Jujube, Chinese; Plum, American; Plum, beach; Plum, Canada; Plum, cherry; Plum, Klamath; Sloe	FOLIAR	Cherry fruit fly* Codling moth Katydid (nymphs) ** Light brown apple moth Obliquebanded leafroller Omnivorous leaf roller Oriental fruit moth Peach twig borer *** Tufted apple bud moth	0.066 - 0.098	1.5 – 2.2	10	4

* Suppression only.
 ** Suppression of Katydid (nymphs) - Forktailed bush katydid (*Scudderia furcata*), Angularwinged katydid (*Microcentrum retinerve* . Correct timing of spray application is to the nymphal stages. Use the higher application rate for moderate to heavy insect pressure. Apply at first indication of katydid nymphs. Allow 5 to 7 days to achieve maximum results. Make repeat applications on a 7 to 10 day schedule if monitoring indicates continued feeding activity.).
 *** **Peach twig borer** - For early dormant through mid-dormant applications, use higher rates of E2Y45 70WG Insect Control; for late dormant applications, use lower rates. Applications may be made with an EPA registered dormant oil; for specific recommendations on use of oil, consult manufacturers specific oil labels for precautions and restrictions regarding the use of oils. For best performance, apply using ground equipment to achieve thorough uniform coverage of all scaffolds and limbs. For "May spray" applications to the summer generation, make applications at peak moth flight (timed at or before peak egg lay). Higher rates in the labeled rate range may be needed for high infestations levels and/or large, dense foliage trees.

USE RESTRICTIONS
 Do not make more than 3 applications per acre per calendar year.
 Minimum interval between treatments is 7 days.
 Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.
 A lower application rate of 1.1 – 1.5 oz product per acre can be used in short interval (7-10 days) spray program.
 Do not apply dilute applications of more than 200 gal water per acre. For best results apply 100-150 gal water per acre.
 Do not apply less than 30 gal water per acre by ground.

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Tea (HI & SC only)	FOLIAR	Leafrollers	0.066 - 0.098	1.5 – 2.2	3	4

Spray Volume: Thorough coverage is essential to achieve best results. Select a spray volume appropriate for the size of trees or plants and density of foliage.

USE RESTRICTIONS
 Do not make more than 3 applications per acre per calendar year.
 Minimum interval between treatments is 14 days.
 Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.
 Do not apply dilute applications of more than 200 gal water per acre. Do not apply less than 30 gal water per acre by ground. For best results apply 100 - 150 gal water per acre.

E2Y45 70WG Insect Control RATE

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Tree Nuts, (EPA Crop Group 14-12), Including: African nut-tree; Almond; Beechnut; Brazil nut; Brazilian pine; Bunya; Bur oak; Butternut; Cajou nut; Candlenut; Cashew; Chestnut; Chinquapin; Coconut; Coquito nut; Dika nut; Ginkgo; Guiana chestnut; Hazelnut (Filbert); Heartnut; Hickory nut; Japanese horse-chestnut; Macadamia nut; Mongongo nut; Monkey-pot; Monkey puzzle nut; Okari nut; Pachira nut; Peach palm nut; Pecan; Pequi; Pili nut; Pine nut; Pistachio; Sapucala nut; Tropical almond; Walnut, black; Walnut, English; Yellowhorn; and Cultivars, varieties, and/or hybrids of these	FOLIAR	Hickory shuckworm	0.047 - 0.098	1.1 – 2.2	10	4
		Pecan nut casebearer				
		Filbertworm	0.055 - 0.098	1.3 – 2.2		
		Codling moth	0.066 - 0.098	1.5 – 2.2		
		Light brown apple moth				
		Navel orange worm				
		Oblique banded leafroller				
		Oriental fruit moth				
		Peach twig borer				

Spray Volume: Thorough coverage is essential. Select a spray volume appropriate for the size of trees or plants and density of foliage. Where higher spray volumes are used, apply a higher E2Y45 70WG Insect Control rate in the specific rate range.

Grazing on Tree Nut orchard or grove floor – There are no grazing restrictions for (1) Grass forage, fodder and hay. Any grass Gramineae family (either green or cured) except sugarcane and those included in the cereal grains group, that will be fed to or grazed by livestock, all pasture and range grasses and grasses grown for hay or silage, and (2) Non-grass animal feeds.

Filbertworm: Make initial application just before or at filbertworm egg hatch. Depending on the length of the filbertworm moth flight, multiple applications may be required to protect the crop. Under heavy filbertworm pressure, apply E2Y45 70WG Insect Control on a 14 day retreatment schedule. With moderate to low filbertworm pressure, apply E2Y45 70WG Insect Control at retreatment intervals no longer than every 21 days.

Codling moth – (Walnut) Make initial application at or before peak egg lay for targeted generation. Depending on level of infestation reapply 14-21 days later as needed. Use higher rates and ground application equipment to achieve thorough coverage.

Naval orange worm (Hullsplit application timing) – Make an application at 1-5% hull-split timing; make a second application approximately 10-14 days later. Depending on level of pest infestation, use of higher rates in the labeled rate range and multiple applications may be needed.

Peach twig borer - E2Y45 70WG Insect Control may be used throughout the growing season, however for dormant applications: E2Y45 70WG Insect Control may be tank mixed with an EPA registered dormant oil; for specific recommendations on use of oil, consult manufacturers specific oil labels for precautions and restrictions regarding the use of oils in tree nut crops. For best performance apply with ground equipment to achieve thorough uniform coverage of all scaffolds and limbs. The high rate is recommended for applications made at early to mid-dormant timing.

Peach twig borer – For spring application to overwintering generation: Make application at late dormant (just prior to bud break) to early bloom. For “May spray” applications to the summer generation: Make applications at peak moth flight (timed at or before peak egg lay). Higher rates in the labeled rate range may be needed for high infestations levels and large, dense foliage trees.

USE RESTRICTIONS

Do not make more than 4 applications per acre per calendar year.

Minimum interval between treatments is 7 days.

Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.

Apply at least 30 gal water per acre by ground. For optimum coverage, apply 100 – 150 gal water per acre by ground.

E2Y45 70WG Insect Control RATE

Crop	Application Method	Target Pest	Lb ai per acre	Ounces of Product per Acre	Last Application (Days to Harvest)	REI (Hours)
Tropical fruits: acerola; atemoya; avocado; biriba; black sapote; canistel; cherimoya; custard apple; ilama; feijoa; guava; jaboticaba; longan; lychee; mamey sapote; mango; papaya; passionfruit; pineapple; pulasan; rambutan; sapodilla; soursop; Spanish lime; star apple; starfruit; sugar apple; wax jambu; White sapote (Casimiroa), and other cultivars and/or hybrids of these.	FOLIAR	Leafminers Leafrollers	0.066 - 0.098	1.5 – 2.2	1*	4

Spray Volume: Thorough coverage is essential. Select a spray volume appropriate for the size of trees or plants and density of foliage.

USE RESTRICTIONS

Do not make more than 3 applications per acre per calendar year.

Minimum interval between treatments is 10 days.

Do not apply more than 4.6 oz E2Y45 70WG Insect Control or 0.2 lb a.i. of chlorantraniliprole containing products per acre per calendar year.

Do not apply dilute applications of more than 200 gal water per acre. Do not apply less than 30 gal water per acre by ground. For best results apply 100 - 150 gal water per acre.

*Except acerola, jaboticaba and lychee. Last application days to harvest for acerola, jaboticaba and lychee is 10 days.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Do not subject to temperatures below 32 degrees F. Store product in original container only in a location inaccessible to children and pets. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Not for use or storage in or around the home.

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

CONTAINER HANDLING: *Refer to the Net Contents section of this product's labeling for the applicable "Refillable Container" or "Nonrefillable Container" designation.*

For Small (Capacity Equal to or Less Than 5 Pounds) Nonrefillable Plastic Containers: Nonrefillable container.

Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 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.

Nonrefillable Polyethylene and Polyfoil Bags – Nonrefillable container. **DO NOT** reuse or refill this container.

Completely empty plastic bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application or manufacturing equipment. Then offer for recycling if available, or dispose of empty plastic bag in a sanitary landfill. **DO NOT** burn, unless allowed by state and local ordinances.

For Plastic Refillable Containers (Capacity 5 pounds or less): Refillable container. Refill this container with chlorantraniliprole only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water and agitate vigorously. Pour rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn out threads and closure devices. Check for leaks after refilling and before transporting. Do not transport if container is damaged or leaking. If the container is damaged, leaking or obsolete, or in the event of a major spill, fire or other emergency, contact CHEMTREC (Transportation and Spills) at 1-800-424-9300, day or night.

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