



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460**

**OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION**

September 27, 2023

Robyn Clark  
Syngenta Crop Protection, LLC  
P.O. Box 18300  
Greensboro, NC 27419

**Subject:** Registration Amendment – Amended Terms and Conditions, and Revised Labeling  
Product Names: Fortenza, Fortenza Red, Minecto Duo Insecticide, Minecto Pro, Mainspring GNL, Zyrox Fly Granular Bait, Spinner Insecticide, Ference, Mainspring Flora and A16901B Residential Insecticide  
EPA Registration Numbers: 100-1420, 100-1418, 100-1421, 100-1592, 100-1543, 100-1541, 100-1424, 100-1551, 100-1585 and 100-1423  
Application Date: June 15, 2023  
Decision Numbers: 593337, 593338, 593342, 593343, 593341, 593344, 594352, 593336, 593339 and 593334

Dear Ms. Clark:

The amended labels referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, are acceptable. Accordingly, EPA has approved the requested registration amendments, provided Syngenta Crop Protection, LLC (“Syngenta”) complies with all terms and conditions listed below.

**Terms and Conditions**

Syngenta must comply with all the following terms and conditions. Release for shipment of these products constitutes acceptance of the below conditions. If these conditions are not complied with, the registrations will be subject to cancellation in accordance with FIFRA section 6.

*Endangered Species Protection and Formal Consultation*

1. For this action, EPA conducted effects determinations under the Endangered Species Act (ESA). In its final effects determinations (included in a biological evaluation), EPA made may affect, likely to adversely affect (LAA), determinations for certain listed species and designated critical habitats for products containing cyantraniliprole (including this product). For these LAA determinations, EPA also assessed the potential likelihood of jeopardy or adverse modification in its effects determination, consistent with 50 C.F.R. § 402.40(b)(1). EPA predicted no potential likelihood of jeopardy for listed species or adverse modification for designated critical habitat. On September 25, 2023, EPA initiated formal consultation with the

Services. The Services will make the final determination as to the potential for jeopardy for listed species or adverse modification for designated critical habitat in any final biological opinions issued at the completion of consultation.

If, following formal consultation with Service(s), additional modifications are identified in any applicable Biological Opinion, EPA will notify Syngenta in writing within 45 calendar days of the issuance of the Biological Opinion of any necessary changes. Within 30 calendar days of receiving EPA's notice, Syngenta must submit an amendment application incorporating the necessary changes, including amended labels. Alternatively, Syngenta may respond by submitting a request for voluntary cancellation of this product. If Syngenta fails to comply with this term, Syngenta has agreed in prior written acceptance of these terms that EPA may cancel the registration under an expedited process under FIFRA 6(e).

#### Implementation of Revised Labeling

2. To ensure the prompt adoption of the mitigations in this registration amendment in newly produced product and previously produced product that is still under Syngenta's control, Syngenta must submit state registrations for approval, in all states where products are currently registered, for the products with the labeling associated with this approval letter no later than November 30, 2023.
3. In accordance with 40 C.F.R. § 152.130(c), product may be distributed or sold by Syngenta under the previously approved labeling for no longer than 12 months from the date of this letter or 75 days after the final state approval from those submitted under Term #2, whichever is earlier.
4. Nothing in Terms #2-3 should be read to obligate Syngenta to provide additional labeling for product that bears the previously approved label but is not under Syngenta's control as of the date of this letter. However, Syngenta should conduct outreach for users of this product to update them on the forthcoming changes to the label and their importance in mitigating potential effects to listed species and avoiding violations of the Endangered Species Act.

#### **EPA's Rationale for Approving This Registration Amendment**

FIFRA section 3(c)(5) requires EPA to unconditionally approve a registration amendment if:

- "its composition is such as to warrant the proposed claims for it";<sup>1</sup>
- "its labeling and other material required to be submitted comply with the requirements of [FIFRA]";<sup>2</sup>

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<sup>1</sup> FIFRA § 3(c)(5)(A), 7 U.S.C. § 136a(c)(5)(A). Here, EPA reviewed the proposed labeling and determined that the claims made for the product were consistent with composition of the product based on the data submitted.

<sup>2</sup> FIFRA § 3(c)(5)(B), 7 U.S.C. § 136a(c)(5)(B). Here, EPA reviewed the submitted labeling and other materials submitted and found them to be compliant with the requirements of FIFRA. Additionally, there are no data gaps.

- “it will perform its intended function without unreasonable adverse effects on the environment”;<sup>3</sup> and
- “when used in accordance with widespread and commonly recognized practice it will not generally cause unreasonable adverse effects on the environment.”<sup>4</sup>

Prior to approving the previous registrations and registration amendments for this product and others containing cyantraniliprole, EPA considered risks and benefits of approving the registrations and registration amendments. To determine the risks and benefits, the Agency reviews a large body of information to determine the effects of using these products. In assessing the risks from use of products containing cyantraniliprole, EPA has conducted both human health risk assessments<sup>5</sup> and ecological and environment fate risk assessments.<sup>6</sup> EPA also updated its ecological and environmental fate risk assessments in support of the 2023 draft biological evaluation (BE).<sup>7</sup> EPA believes that that these risk assessments (and the benefits discussed below) are also applicable to the action to approve this amended registration.

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<sup>3</sup> FIFRA § 3(c)(5)(C), 7 U.S.C. § 136a(c)(5)(C).

<sup>4</sup> FIFRA § 3(c)(5)(D), 7 U.S.C. § 136a(c)(5)(D).

<sup>5</sup> Summary of Analytical Chemistry and Residue Data (Jan. 25, 2013) ([EPA-HQ-OPP-2011-0668-0009](#)); Dietary Exposure and Risk Assessment (Jan. 29, 2013) ([EPA-HQ-OPP-2011-0668-0010](#)); Occupational and Residential Exposure and Risk Assessment for the Proposed New Uses of the New Active Insecticide Cyantraniliprole (Feb. 28, 2013) ([EPA-HQ-OPP-2011-0668-0011](#)); Aggregate Human Health Risk Assessment for the Proposed New Uses of the New Active Insecticide Cyantraniliprole (Mar. 7, 2013) ([EPA-HQ-OPP-2011-0668-0012](#)); Chronic Aggregate Dietary Exposure and Risk Assessments in Support of a Section 3 Registration Action (Sept. 7, 2016) ([EPA-HQ-OPP-2014-0357-0009](#)); Human Health Risk Assessment for Various Proposed Uses and Several Tolerance Requests without U.S. Registration (Jan. 12, 2017) ([EPA-HQ-OPP-2014-0357-0011](#)); Summary of Analytical Chemistry and Residue Data (Apr. 21, 2016) ([EPA-HQ-OPP-2014-0357-0012](#)); Summary of Analytical Chemistry and Residue Data (Aug. 8, 2016) ([EPA-HQ-OPP-2014-0357-0013](#)); Human Health Risk Assessment for Proposed Uses and Tolerance Requests on Coffee; Caneberry Subgroup 13-07A; Low Growing Berry Subgroup 13-07H, Except Strawberry, Lowbush Blueberry and Lingonberry; Brassica Leafy Greens Subgroup 4-16A; Leafy Greens Subgroup 4-16B (June 20, 2018) ([EPA-HQ-OPP-2017-0694-0011](#)); Chronic Aggregate Dietary Exposure and Risk Assessments for Proposed Uses and Tolerance Requests on Coffee; Caneberry Subgroup 13-07A; Low Growing Berry Subgroup 13-07H, Except Strawberry, Lowbush Blueberry and Lingonberry; Brassica Leafy Greens Subgroup 4-16A (May 30, 2018) ([EPA-HQ-OPP-2017-0694-0012](#)); Human Health Risk Assessment for an Inadvertent Tolerance on Sugarcane (Feb. 28, 2022) ([EPA-HQ-OPP-2021-0154-0007](#)); Highly Refined Chronic Aggregate Dietary Exposure and Risk Assessments for Proposed Inadvertent Use and Tolerance Request on Sugarcane (Feb. 28, 2022) ([EPA-HQ-OPP-2021-0154-0008](#)).

<sup>6</sup> Environmental Fate and Ecological Risk Assessment for the Registration of the New Chemical Cyantraniliprole – Amended (April 30, 2013) ([EPA-HQ-OPP-2011-0668-0008](#)); Environmental Risk Assessment of Proposed New Global Chemical Cyantraniliprole – Addendum (Jan. 24, 2014) ([EPA-HQ-OPP-2011-0668-0055](#)); Revised Drinking Water Assessment including Ground Water Exposure Refinements for Proposed New Uses on Leafy, Bulb, Fruiting, and Cucurbit Vegetables with Two Seasons of Applications (June 9, 2016) ([EPA-HQ-OPP-2014-0357-0010](#)); Ecological Risk Assessment and Drinking Water Assessment for the IR-4 New Use Petition for Pronamide on Low Growing Berry Subgroup except Strawberry, Subgroup 13-07H; Stone Fruit Crop group 12-12; Pome Crop Group 11-10; Caneberry subgroup 13-07A; Bushberry subgroup 13-07B; and Small Fruit Vine Climbing Subgroup (except Fuzzy Kiwifruit Subgroup 13-07F) (May 14, 2018) ([EPA-HQ-OPP-2017-0694-0013](#)).

<sup>7</sup> See EPA’s Draft Biological Evaluation for Cyantraniliprole and supporting documentation, available at [EPA-HQ-OPP-2011-0668](#), Document ID Nos. 71-72, 75-87.

In the human health risk assessments, EPA did not select an acute dietary toxicity endpoint because the Agency did not identify any effect attributed to a single dose (*i.e.*, CTP is not expected to pose an acute risk to humans). In general, CTP produces both adverse and adaptive changes in the liver, thyroid gland, and adrenal cortex. With repeat dosing, consistent findings of mild to moderate increases in liver weights are observed across multiple species (rats, mice, dogs). CTP was classified as “not likely to be carcinogenic to humans” based upon data demonstrating lack of treatment-related increase in tumor incidence in rats and mice. No cumulative effects were identified. CTP presents no mutagenicity, neurotoxicity, immunotoxicity, developmental reproductive toxicity.

In the environmental risk assessments, EPA identified risks of concern for both aquatic and terrestrial invertebrates. Overall, however, the major risks of concerns are for direct effects to freshwater, estuarine/marine, and benthic invertebrates. EPA did not identify direct risks of concerns for birds, reptiles, amphibians, freshwater fish, terrestrial plants, or aquatic plants.

EPA also considered the benefits of products containing cyantraniliprole, including CTP’s activity on a wide variety of target insects on a variety of crops. CTP is effective for controlling aphids, weevils and thrips—all major agricultural pests. CTP is not expected to pose any acute risk to humans and was registered in 2013 as a reduced risk pesticide due to it posing lower relative risk to alternative chemicals available at that time. CTP also poses lower risk to non-target organisms relative to alternatives and is compatible with IPM practices.

This amended registration includes additional mitigation measures to address effects to listed species, including the following:

- Requirement that applicators use coarse/coarser droplets for ground and aerial applications to reduce spray drift
- Requirement that aerial applications abide by wind-directional buffers, as identified in Bulletins Live Two (BLT), also to reduce spray drift
- Increase in distance of vegetative filter strips from 25 to 30 feet to mitigate the potential for runoff to aquatic habitats
- Use of a 25’ buffer for airblast applications to dormant, non-bearing and/or vegetation that is not yet fully leafed out
- Requirement that treated seeds be immediately covered or collected if spilled during loading

After consideration, EPA has determined that approving this amended registration will not cause unreasonable adverse effects because the amended registrations are not expected to result in increased exposures<sup>8</sup> and because EPA continues to believe that—consistent with the 2014 registration decision<sup>9</sup>

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<sup>8</sup> While the mitigations in the amended registrations are intended to reduce exposures to listed species, EPA expects that the mitigations will (1) not increase exposures to other non-listed non-target organisms, and (2) will generally reduce exposures to all non-target organisms (both listed and non-listed).

<sup>9</sup> For EPA’s full risk-benefit analysis, *see* Registration of New Active Ingredient Cyantraniliprole, at 13-14 (Jan. 24, 2014) ([EPA-HQ-OPP-2011-0668-0057](#)).

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and other previous registration decision for products contain cyantraniliprole—the benefits of these registrations outweigh any remaining risks of concern from its use and there are no human dietary risks from uses of cyantraniliprole that are inconsistent with the FFDCA safety standard.<sup>10</sup> Accordingly, EPA is approving these registration amendments because the FIFRA registration standard is met.

## Conclusion

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. Consistent with Terms 2-5 above, and notwithstanding 40 C.F.R. § 152.130(c), you may only distribute or sell<sup>11</sup> this product under either the final stamped label associated with this approval letter or with accompanying labeling that incorporates the mitigations in this registration amendment.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 C.F.R. § 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA-approved registration, the product will be referred to EPA's Office of Enforcement and Compliance.

If you have any questions, please contact Gene Benbow at 703-712-9669 or at [benbow.gene@epa.gov](mailto:benbow.gene@epa.gov).

Sincerely,



Deanna (Dee) Colby, Chief  
Invertebrate & Vertebrate Branch 3  
Registration Division  
Office of Pesticide Programs

Enclosure

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<sup>10</sup> See FIFRA § 2(bb) (defining “unreasonable adverse effects on the environment” as, in relevant part, “any unreasonable risk to [humans] or the environment, taking into account the economic, social, and environmental costs and benefits of the use of the pesticide” or any “human dietary risks” from pesticidal residues in or on food).

<sup>11</sup> See FIFRA § 2(gg), 7 U.S.C. § 136(gg); 40 C.F.R. § 152.3.

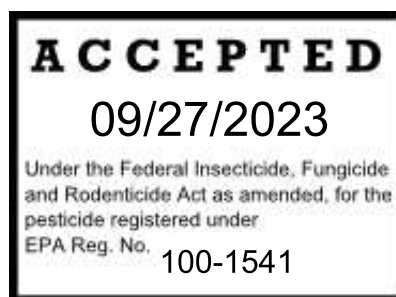
[Master Label]

**CYANTRANILIPROLE | GROUP 28 | INSECTICIDE**

### ZYROX® FLY GRANULAR BAIT

#### Insecticidal Bait

- Granular insect bait for use in and around residential, commercial, institutional, and agricultural structures to control listed fly pests and kill listed cockroaches
- [Kills Oriental, German, and American cockroaches]
- [Kills Houseflies, Stable flies, and other nuisance flies]
- [Ready to use bait]
- [Apply at 0.2 to 0.4 pounds per 1,000 sq ft]
- [Highly attractive bait to flies and cockroaches]



Active Ingredient:

Cyantraniliprole\*

3-bromo-1-(3-chloro-2-pyridinyl)-N-[4-cyano-2-methyl-6-[(methylamino)carbonyl]phenyl]-1H-pyrazole-5-carboxamide:.....	0.5%
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Other Ingredients:	99.5%
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Total:	100.0%
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\*Cyantraniliprole belongs to the anthranilic diamide chemical class.

Zyrox Fly Granular Bait is a ready-to-use granular insect bait containing 0.005 lb cyantraniliprole per pound of product.

#### 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.)

EPA Reg. No. 100-1541

EPA Est. No.

Net Contents

[Batch Code: \_\_\_\_\_ ] (For nonrefillables only.)

<b>FIRST AID</b>
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<b>HOTLINE NUMBER</b>
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For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire or Accident), Call <b>1-800-888-8372</b>
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**PRECAUTIONARY STATEMENTS**

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**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Applicators and other handlers must wear:

- Shirt and long pants
- Shoes plus socks

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

<b>USER SAFETY RECOMMENDATIONS</b>
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<b>Users Should:</b> Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
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**ENVIRONMENTAL HAZARDS**

Do not apply directly to water. Runoff may be hazardous to aquatic organisms in water adjacent to use sites.

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## CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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

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

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions, or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and (2) Buyer and User assume the risk of any such use. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.**

To the extent permitted by applicable law, in no event shall SYNGENTA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.



## DIRECTIONS FOR USE

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

Read and understand the entire label before using this product.

Zyrox Fly Granular Bait must be used in accordance with the directions for use on this label, or exemptions under FIFRA (Special Local Need Registrations, FIFRA Section 18 exemptions, FIFRA 2(ee) Bulletins). Always read the entire label, including the Limitation of Warranty and Liability.

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### PRODUCT INFORMATION

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Zyrox Fly Granular Bait contains the active ingredient cyantraniliprole in a ready-to-use granular bait formulation:

- Controls listed fly pests and kills cockroaches in and around residential, commercial, institutional and agricultural structures;
- Provides an alternative mode of action for insecticide resistance management;
- Can be an important tool in an integrated pest management program.

### APPLICATION USE SITES

Zyrox Fly Granular Bait may be applied in these areas:

- outdoor waste-storage areas around commercial establishments, such as restaurants, taverns, hotels, grocery stores, supermarkets, bakeries, warehouses, and sports complexes;
- outdoor areas of commercial operations, such as canneries; beverage-processing plants; dairy-, meat-, and poultry-processing plants; fruit- and vegetable-processing plants; seafood-processing plants; tanneries; rendering plants; grease-collection stations; kennels; schools; recycling plants; and military installations;
- outdoor areas of agricultural animal-production facilities, such as poultry/broiler houses, swine-production structures, livestock-housing structures, and horse stables.

To control house fly, stable fly, dump fly, fruit flies, dung fly, and black-eyed fly, and to kill cockroaches, Zyrox Fly Granular Bait may be used indoors at the sites listed above as a water-diluted application. For flies only, Zyrox may be applied as a granular if placed in bait stations. In walkways within caged-layer houses or in penned-animal facilities, Zyrox may be applied as a broadcast, scatter bait. Refer to the TARGET PESTS table describing **Use in Bait Stations** or **Alternative Application Methods** for specific use instructions.

## USE RESTRICTIONS AND PRECAUTIONS

- **DO NOT** apply as a scatter bait indoors in residential structures, commercial establishments, food- and feed-handling establishments, food-processing plants, restaurants and animal-production facilities. Bait stations or the alternative application methods (see following section) must be used when applying Zyrox Fly Granular Bait inside these buildings/structures, except for walkways within caged-layer houses or penned-animal facilities.
- **DO NOT** apply as a scatter bait in areas accessible to children and pets. When bait stations or the alternative application methods (see following section) are used, place stations, ropes, or cards out of the reach of children and pets.
- **DO NOT** place bait within reach of food-producing animals or animals being grown for food.
- **DO NOT** apply as a scatter bait outdoors when raining.
- **DO NOT** apply as scatter bait within 30 ft of aquatic habitats (such as, but not limited to, lakes, rivers, reservoirs, permanent streams, wetlands or natural ponds, estuaries, and commercial fishponds).
- **DO NOT** use outdoors as a scatter bait in the Nassau, Suffolk, Kings, and Queens Counties of New York State.
- For outdoor broadcast applications, **DO NOT** apply more than 2 lb per 1,000 sq ft per calendar year (equivalent to 0.01 lb ai per 1,000 sq ft per calendar year or 0.44 lb ai/A per calendar year).

## RESISTANCE MANAGEMENT

CYANTRANILIPROLE	GROUP	<b>28</b>	INSECTICIDE
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Zyrox Fly Granular Bait is a Group 28 Insecticide that contains the active ingredient cyantraniliprole. Due to the inherent risk of the development of resistance to any pesticide, it is strongly advised that Zyrox Fly Granular Bait be used in a sound resistance-management program that includes, but is not limited to:

- Applying Zyrox Fly Granular Bait according to the label-use directions;
- Alternating Zyrox Fly Granular Bait with products with different modes of action;
- Avoiding treatment of successive generations with Zyrox Fly Granular Bait.

For additional information about implementing these or other resistance management practices, consult a local or state Extension specialist or Syngenta representative.

### Food- and Feed-Handling Establishments

(Food- and feed-handling establishments are places other than private residences in which food and feed are held, processed, prepared or served.)

- For indoor areas of residential, institutional, public, agricultural buildings/structures, or food- and feed-handling establishments, Zyrox Fly Granular Bait must be placed in bait stations suitable for granular insect baits or prepared and applied as a water-diluted product. Indoor use as a scatter bait is permitted only on walkways in caged-layer houses or penned-animal facilities.
- **DO NOT** apply to areas or surfaces where food, feed, food utensils or food-processing surfaces may come into contact and become contaminated.

### **Applications in Non-food and Non-feed Areas**

Zyrox Fly Granular Bait is approved for use to control house flies and other listed fly pests and to kill cockroaches in residential structures and the non-food and non-feed areas of commercial, industrial, public, agricultural and institutional buildings/structures, including restaurants, warehouses, food- and feed-processing plants, supermarkets, hospitals, nursing homes, motels, hotels, schools, daycares, laboratories, computer facilities, aircraft, buses, boats/ships, trains, pet shops and zoos.

Non-food and non-feed areas of food- and feed-handling establishments include areas such as garbage rooms, lavatories, floor drains (to sewers), entries, and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after bottling or canning).

Refer to section below for use directions and restrictions when making applications in food/feed handling areas of Food- and Feed-Handling Establishments.

### **Applications in Food- and Feed-Handling Areas**

Application to food/feed areas of food- and feed-handling establishments may only be made using bait stations suitable for use with granular insect control baits.

Food- and feed-handling areas include areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing edible waste storage, and enclosed processing systems (mills, dairies, edible oils, syrups). Serving areas are also considered a food and feed area when food is exposed and facility is in operation.

## **APPLICATION PROCEDURES AND USE RATES**

### **Broadcast**

Broadcast or scatter Zyrox Fly Granular Bait using suitable granular spreader equipment or directly from the container evenly to the target areas. Avoid placing the bait granules in piles and scatter bait as evenly as possible over surfaces.

Apply 0.2 lb (3.2 oz) of Zyrox Fly Granular Bait per 1,000 sq ft when listed fly and cockroach pest populations are low. Apply 0.4 lb (6.4 oz) of bait per 1,000 sq ft when populations are high. Reapply bait every 7 days until insect pest population is at acceptable levels. For outdoor broadcast applications, **DO NOT** apply more than 2 lb per 1,000 sq ft per calendar year.

### **Use in Bait Stations (For flies only)**

Use bait stations that are suitable for granular baits.

Apply 0.2 lb (3.2 oz) of Zyrox Fly Granular Bait when listed fly pest populations are low using enough bait stations to make the necessary amount of bait available per 1,000 sq ft. Apply 0.4 lb (6.4 oz) of bait in bait stations per 1,000 sq ft when listed fly pest populations are high. Replenish bait stations until the fly population is at acceptable levels in the target area.

### **Alternative Application Methods (for Listed Pests)**

#### **Application of Zyrox Fly Granular Bait to Glue-Boards or Sticky Cards**

Zyrox Fly Granular Bait may be applied as a dry scatter bait to the sticky surfaces of glue boards or other sticky cards as a way to present granular bait to listed fly and cockroach pests. Apply Zyrox Fly Granular Bait to sticky surface of cards in a way so that the sticky material is covered with an even layer of bait (approximately 0.1 oz per sq inch of card surface). The amount used per card depends on the size and type of sticky surface. Hang cards from ceiling supports or other means to provide a treated surface for flies to land. Replace cards as bait is consumed or if cards become dirty, but not more frequently than every 7 days.

#### **Use of Water-Diluted Zyrox Fly Granular Bait Product – How to Prepare Dilution**

Zyrox Fly Granular Bait may be applied by diluting granules in warm water at ratios ranging from 0.5-1.5 oz Zyrox Fly Granular Bait per 1 fl oz water. Mix in non-food use container and stir until bait has dissolved. Let mixture stand until a suitable consistency is achieved that allows one to paint the mixture onto a surface or apply to disposable cards or rope wicks.

#### **Methods of Applications of Water-Diluted Product (not for Stable Flies)**

- **Paint-on method.** Prepare water-diluted product as described above. Apply as a spot treatment or in 6-12 inch wide bands to surfaces every 10 ft where flies are likely to rest using a paint brush, roller or other applicator suited to spreading water-diluted bait onto a surface. Rinse applicator thoroughly after using. Reapply diluted bait as needed, but not more frequently than every 7 days. Some surfaces may become temporarily discolored when painting with diluted bait so it is advisable to test paint a small area to determine surface compatibility.
- **Application to disposable cards.** Water-diluted bait may also be applied to cards. Hang cards from ceiling supports or other means to provide a treated surface for flies to land. Treated cards may be disposed of when they are no longer attractive to pests or when they become dirty and may be replaced with freshly treated cards every 7 days.
- **Rope-wick application of water-diluted product.** Rope wick may be used as a disposable surface for exposing flies to water-diluted Zyrox Fly Granular Bait. Prepare water-diluted product as described above in a container. Place short

pieces of rope-wick (approximately 6-36 inch lengths) into diluted product and allow to soak up diluted bait for 3-5 minutes. Remove rope pieces, allow to dry, and hang in areas where flies are likely to rest.

Surfaces that may be treated with paint-on treatments or where disposable boards/cards and/or rope wicks may be hung include doors and windows, building perimeter foundations, walls, beam edges, eaves, corners, cracks, crevices, wall voids, unfinished attics, crawl spaces, under appliances, along wall edges, conduits to light fixtures, pillars and other structures such as, but not limited to, fences, awnings, dumpsters, refuse containers and other areas where flies or fly specks are found.

**Do not** paint surfaces or place boards/cards or rope wicks within the reach of children, pets or livestock.

## TARGET PESTS

Pest Group	Including	Application Method		Comments
		Indoors	Outdoors	
Flies	<ul style="list-style-type: none"> <li>House Fly</li> </ul>	Broadcast <sup>1</sup>  Bait Stations Scatter application to Glue-Boards or Sticky Cards  Water-Diluted Product <sup>2</sup> (Paint-on or Rope- Wick)	Broadcast  Bait Stations	Use bait stations suitable for flies.
	<ul style="list-style-type: none"> <li>Stable Fly</li> </ul>	Bait Stations  Scatter application to Glue-Boards or Sticky Cards		
	<ul style="list-style-type: none"> <li>Dump fly</li> <li>Fruit Flies (including spotted wing <i>Drosophila</i>)</li> <li>[Nuisance Flies</li> </ul>	Broadcast <sup>1</sup>  Bait Stations	Broadcast  Bait Stations  Scatter application to	

	(including black-eyed fly, dung fly) <sup>3]</sup>	Scatter application to Glue-Boards or Sticky Cards  Water-Diluted Product <sup>2</sup> (Paint-on or Rope-Wick)	Glue-Boards or Sticky Cards  Water-Diluted Product (Paint-on or Rope-Wick)	
Cockroaches	such as: <ul style="list-style-type: none"> <li>American Cockroach</li> <li>German Cockroach</li> <li>Oriental Cockroach</li> </ul>	Broadcast <sup>1</sup>  Scatter application to Glue-Boards or Sticky Cards	Broadcast  Scatter application to Glue-Boards or Sticky Cards	
<sup>1</sup> <b>DO NOT</b> broadcast indoors except for walkways of penned-animal facilities. <sup>2</sup> <b>DO NOT USE DILUTED APPLICATIONS (Paint-On or Rope-Wick) for INDOOR RESIDENTIAL SITES.</b> <sup>3</sup> Not approved for use in California.]				

### **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**

Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

#### **Container Handling [bags]**

Non-refillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration or by other procedures approved by state and local authorities.

#### **Container Handling [plastic containers less than or equal to 50 pounds]**

Non-refillable container. Do not reuse or refill this container. Completely empty container into application equipment. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

**Container Handling [fiber drums with liners]**

Non-refillable container. Do not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then offer for recycling if available or dispose of liner in a sanitary landfill or by incineration, or by other procedures approved by state and local authorities. If drum is contaminated and cannot be reused, dispose of it in the manner required for its liner.

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Syngenta Crop Protection at 1-800-334-9481

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