UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

February 2, 2022

Ricky Kyaw
Regulatory Product Manager
Syngenta Crop Protection, LLC
PO Box 18300
Greensboro, NC 27419

Subject: Registration Review Label Mitigation for Fludioxonil
Product Name: Scholar EZ
EPA Registration Number: 100-1505
Application Date: 2/1/2019
Decision Number: 581358

Dear Mr. Kyaw:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Fludioxonil Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

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.

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. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

If you have any questions about this letter, please contact Darius Stanton by phone at 202-566-2332, or via email at stanton.darius@epa.gov.

Sincerely,

Linda Arrington, Branch Chief
Risk Management and Implementation Branch 4
Pesticide Re-Evaluation Division
Office of Pesticide Programs

Enclosure

[Master Label]

FLUDIOXONIL	GROUP 12	FUNGICIDE

Scholar® EZ

Fungicide

Scholar EZ is concentrated fludioxonil intended for post-harvest thermal fogging on pome fruit.

Active Ingredient:	
Fludioxonil*.....	98.0%
Other Ingredients:	2.0%
Total:	100.0%

*CAS No. 131341-86-1

Scholar EZ is a 98% powder.

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements and directions for use inside booklet.

EPA Reg. No. 100-1505

EPA Est.

Product of
Formulated in

ACCEPTED
Feb 02, 2022
Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 100-1505

Net Contents

Do not formulate this product in to other end-use products.

FIRST AID	
If on skin	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes.

	• Call a poison control center or doctor for treatment advice.
If in eyes	• Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If inhaled	• Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
HOT LINE NUMBER For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call **1-800-888-8372**	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Harmful if absorbed through skin. Causes moderate eye irritation. Harmful if inhaled. Avoid breathing dust. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment (PPE)

Handlers (including mixers, loaders, persons cleaning or setting up the fogging equipment, and persons handling treated fruit) must wear:

- Long-sleeved shirt and long pants
- Protective eyewear (such as goggles, safety glasses, or a face shield)
- Chemical-resistant gloves made of barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, polyvinyl chloride (PVC) ≥14 mils, Viton® ≥ 14 mils
- Shoes plus socks

In addition, fumigating applicators must wear:

- Wear a minimum of a NIOSH-approved elastomeric half mask respirator with organic vapor (OV) cartridges; OR a NIOSH-approved full face respirator with OV

cartridges; OR a gas mask with OV canisters; OR a powered air purifying respirator with OV cartridges

User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining 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/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

This product is toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of 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 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. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR DISEASE CONTROL.

PRODUCT INFORMATION

Scholar EZ is a protective fungicide used to aid in the control of post-harvest diseases in storage facilities.

RESISTANCE MANAGEMENT

FLUDIOXONIL	GROUP	12	FUNGICIDE

Scholar EZ contains fludioxonil which is in the phenylpyrrole class of chemistry and has a unique mode of action, which prevents fungal respiration (Fungicide Action Group 12). Fungal isolates with acquired resistance to Group 12 may eventually dominate the fungal population if Group 12 fungicides are used repeatedly in the same field or packing facility or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by fludioxonil or other Group 12 fungicides. A disease management program that includes alternation or tank mixes between Scholar EZ and other labeled fungicides that have a different mode of action may prevent pathogen populations from developing resistance. Use sanitation and other cultural practices to minimize pathogen populations in order to control disease and prevent or delay resistance development.

To delay fungicide resistance, take one or more of the following steps:

- Rotate the use of fludioxonil or other Group 12 fungicides within a growing season sequence with different groups that control the same pathogens.
- Use tank mixtures with fungicide from a different group that are equally effective on the target pest when such use is permitted. Use at least the minimum application rate as labeled by the manufacturer.
- Adopt an integrated disease management program for fungicide use that includes scouting, uses historical information related to pesticide use, and crop rotation, and which considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.
- Where possible, make use of predictive disease models to effectively time fungicide applications. Note that using predictive models alone is not sufficient to manage resistance.
- Monitor treated fungal populations for resistance development.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance-management and/or IPM recommendations for specific crop and pathogens.

For further information or to report suspected resistance contact Syngenta at 1-866-Syngent(a) (866-796-4368). You can also contact your pesticide distributor or university extension specialist to report resistance.

APPLICATION RESTRICTIONS

- Only apply 1 post-harvest application of fludioxonil-containing product.
- Do not apply to fruit previously treated with fludioxonil via drench or dip/wash.
- Apply only with a thermal fogging machine.

MIXING PROCEDURES

Prepare no more mixture than is needed for the immediate operation.

If using Scholar EZ in a tank mixture, observe all directions for use, crops/sites, use rates, dilution ratios, precautions, and limitations which appear on the tank-mix product label. Do not exceed any label dosage and apply the most restrictive label precautions. Do not mix Scholar EZ with any other product whose label prohibits such mixing. Tank mixtures are permitted only in those states where the tank-mix partner is registered.

THE CROP SAFETY OF ALL POTENTIAL TANK MIXES INCLUDING ADDITIVES AND OTHER PESTICIDES ON ALL CROPS HAS NOT BEEN TESTED. BEFORE APPLYING ANY TANK MIXTURE, THE SAFETY TO THE TARGET CROP SHOULD BE CONFIRMED.

APPLICATION INSTRUCTIONS

Apply Scholar EZ at rates and timings as described in this label.

Only other fungicides compatible with Scholar EZ, diphenylamine (DPA), and the carrier, and approved for fogging applications can be tank mixed with Scholar EZ. Follow all label directions and restrictions for each ingredient in the tank mixture.

Preparation for Scholar EZ Treatment

Note: When rooms are treated with less than 75% fruit capacity, calculate the dosage by adding a tonnage value of 20% of the empty volume to the real tonnage of the fruit.

Scholar EZ applied with postharvest-approved carrier for pome fruit storage.

- Mixers, Loaders, Applicators, and Handlers must use PPE from the most restrictive product.
- Heat the carrier using an appropriate container. Cover and place the container on an electrical heater and heat to 180°F.
- Calculate the amount of Scholar EZ according to the application rate.
- Weigh the amount of Scholar EZ to the nearest gram into a clean and dry container.
- Add the Scholar EZ slowly under gentle mixing to the carrier.

Thermal Fogger Operation

- Place the thermal fogger machine horizontally outside the treatment room at a height of about 3 feet from the floor. Insert the fogging pipe through the porthole in the door to the storage room.
- Seal the opening around the nozzle with thermally resistant tape.
- Adjust the pump and mount the nozzle to deliver up to 120 mL per minute.
- Turn on the thermal fogger machine.
- Insert the insulated input pipe into the aerosol mixture. Start the pump.
- Maintain the product temperature between 160-180°F.
- Ensure the Scholar EZ remains in suspension during application by using agitation, if necessary.
- Maintain fogger inlet temperature between 500-600°F. Do not exceed 650° F fogger temperature (i.e. inner temperature of the fogger barrel at the point of injection).
- Do not use any elbow or allow any restriction at the end of the fog barrel which might cause back-pressure or increase the temperature in the fogger barrel.

Application Procedures

- Do not breathe the fog.

- Turn off room cooling systems and humidifiers 12 hours prior to and during treatment.
- Turn off room circulation fans immediately prior to and during treatment.
- Open a small vent in the room during fogging, if necessary, to avoid back-pressure.
- Turn on room circulation fans one hour after the treatment.
- Visually check that the fog has totally disappeared (about 5 hours post-treatment) before restarting the cooling systems.

Posting

Notify workers of application by warning them orally and posting warning signs at entrances to treated areas.

Re-Entry

Entry into the treatment area by another person other than properly trained and equipped handlers is prohibited from the start of application until the treated area is ventilated as follows:

- 8 hours with no ventilation followed by 1 hour of mechanical ventilation
- 24 hours with no ventilation

In case it is necessary to enter the treatment area during treatment or before ventilation requirements have been met, handlers must wear chemical resistant headgear and a self-contained breathing apparatus (SCBA, MSHA/NIOSHA approval number prefix TC-13F) in addition to PPE listed under the PRECAUTIONARY STATEMENTS. Follow all applicable safety precautions for entering a controlled atmosphere storage facility, such as monitoring oxygen and carbon monoxide meters to assure proper levels before re-entry.

CROPS USE DIRECTIONS - POST-HARVEST

Pome fruit

Apple (*Malus domestica*); Azarole (*Crataegus azarolus*); Crabapple (*Malus* spp.); Loquat (*Eriobotrya japonica*); Mayhaw (*Crataegus aestivalis, C. opaca,* and *C. rufula*); Medlar (*Mespilus germanica)*; Pear (*Pyrus communis*); Pear, Asian (*Pyrus* spp.); Quince (*Cydonia oblonga*); Quince, Chinese (*Chaeonomeles speciosa*); Quince, Japanese (*Chaenomeles japonica*); Tejocote (*Crataegus mexicana*) and cultivars, varieties and/or hybrids of these.

Use Scholar EZ as a post-harvest thermal-fog aerosol application to reduce damage from post-harvest diseases caused by:

- Blue mold (*Penicillium expansum)*

- Gray mold (*Botrytis cinerea)*
- Bull's-eye rot (*Neofabraea malacorticis)*
- Rhizopus rot (*Rhizopus stolonifer)*
- Bitter rot (*Colletotrichum gloeosporiodes*)
- Sphaeropsis rot (*Sphaeropsis pyriputrescens*)
- Phacidiopycnis rot (*Phacidiopycnis piri*)
- Speck rot (*Phacidiopycnis washingtonensis*)
- White rot (*Botryosphaeria dothidea*)
- Alternaria rot (side rot) and surface mold (*Alternaria alternata*)

Application Method	Disease	Rate oz (grams)	Remarks
Fogging into Storage Facility	Blue mold Gray mold Bitter rot Speck rot White rot Phacidiopycnis rot Sphaeropsis rot Alternaria rot and surface mold Rhizopus rot Bull's-eye rot	0.035 oz/bin or 1 gram/bin (900 lb of fruit /bin)	• Ensure proper distribution of the product on the fruit. • Treat only dry fruit. • Apply to fruit as soon after harvest as possible but no more than 15 days after harvest. • Load bins in the storage room with normal spacing between bins and head space. • Do not cover top bins. • Cover the front face of the bins directly in front of the fogging nozzle.

For maximum decay control during storage, treat fruit before storage with Scholar EZ.

Specific Use Restrictions

1) Do not apply to fruit previously treated with fludioxonil via drench or dip/wash.
2) Apply only with a thermal fogging machine.
3) Only apply 1 post-harvest application of fludioxonil-containing product.

Conversion Chart

Number of 900 lb Fruit Bins	US Tons of Fruit	Amount of Scholar EZ in oz (grams)
100	45	3.5 (100)
500	225	17.5 (500)
1000	450	35.0 (1000)
1500	675	52.5 (1500)

2000	900	70 (2000)

STORAGE AND DISPOSAL

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

Pesticide Storage

Store in original containers in a cool, dry place. Do not store this product under wet conditions. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, sweep and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to the label. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

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

[For paper and plastic 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 allowed by state and local authorities.

[For plastic containers equal to or less than 5 gallons (Dry)]
Non-refillable 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. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow beings to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration or by other procedures allowed by state and local authorities.

[For plastic containers larger than 5 gallons]
Non-refillable 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. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end

and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER.

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the SYNGENTA Logo and the PURPOSE ICON
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For non-emergency (e.g., current product information), call
Syngenta Crop Protection at 1-800-334-9481.

Manufactured for:
Syngenta Crop Protection, LLC
P. O. Box 18300
Greensboro, North Carolina 27419-8300

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