



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

September 20, 2019

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

Subject: Registration Review Label Mitigation for Fludioxonil and Mefenoxam  
Product Name: THX/MXM/FLD/TBZ/SDX FS  
EPA Registration Number: 100-1559  
Application Date: 2/1/2019  
Decision Number: 554975; 554976

Dear Mr. Kyaw:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all of the information submitted with your application to support the Registration Review of the above referenced product in connection with the Fludioxonil and Mefenoxam Interim Decisions, 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 copy of your label stamped "Accepted" is enclosed. Products shipped after 12 months from the date of this amendment must bear the new revised label. Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6.

Page 2 of 2  
EPA Reg. No. 100-1559  
Decision No. 554975; 554976

If you have any questions about this letter, please contact Darius Stanton by phone at 703-347-0433, or via email at [Stanton.Darius@epa.gov](mailto:Stanton.Darius@epa.gov).

Sincerely,

A handwritten signature in blue ink, appearing to be "Linda Arrington", with a stylized flourish at the end.

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

Enclosure

(MASTER)

<b>THIAMETHOXAM</b>	<b>GROUP</b>	<b>4A</b>	<b>INSECTICIDE</b>
<b>THIABENDAZOLE</b>	<b>GROUP</b>	<b>1</b>	<b>FUNGICIDE</b>
<b>MEFENOXAM</b>	<b>GROUP</b>	<b>4</b>	<b>FUNGICIDE</b>
<b>SEDAXANE</b>	<b>GROUP</b>	<b>7</b>	<b>FUNGICIDE</b>
<b>FLUDIOXONIL</b>	<b>GROUP</b>	<b>12</b>	<b>FUNGICIDE</b>

**THX/MXM/FLD/TBZ/SDX FS**

Insecticide with Fungicides

A seed treatment product for protection against damage from listed: insects, seed-borne diseases, and seedling diseases on soybean

Active Ingredients:

Thiamethoxam <sup>1</sup> .....	22.40%
Mefenoxam <sup>2</sup> .....	3.35%
Thiabendazole <sup>3</sup> .....	2.24%
Fludioxonil <sup>4</sup> .....	1.12%
Sedaxane <sup>5</sup> .....	1.12%
<b>Other Ingredients:</b>	<b>69.77%</b>
<b>Total:</b>	<b>100.00%</b>

<sup>1</sup>CAS No. 153719-23-4

<sup>2</sup>CAS No. 70630-17-0 and CAS No. 69516-34-3

<sup>3</sup>CAS No. 148-79-8

<sup>4</sup>CAS No. 131341-86-1

<sup>5</sup>CAS No. 874967-67-6

One gallon of THX/MXM/FLD/TBZ/SDX FS contains 2.16 lb thiamethoxam, 0.32 lb mefenoxam, 0.22 Lb thiabendazole, 0.11 lb fludioxonil and 0.11 lb sedaxane.

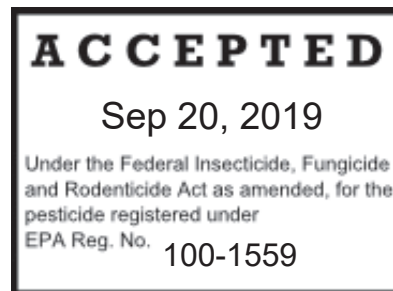
**KEEP OUT OF REACH OF CHILDREN.**

**CAUTION**

See additional precautionary statements and directions for use in booklet [on label].

EPA Reg. No. 100-1559  
EPA Est.

Net Contents



(MASTER)

<b>FIRST AID</b>	
<b>If swallowed</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to by a poison control center or doctor.</li><li>• Do not give anything to an unconscious person.</li></ul>
Have the product container or label with you when calling a poison control center or doctor or going for treatment.	
<b>HOT LINE NUMBER</b> 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>	

---

## **PRECAUTIONARY STATEMENTS**

---

### **HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

#### **CAUTION**

Harmful if swallowed. Wash thoroughly with soap and water after handling, and before eating, drinking, chewing gum, using tobacco, or using the toilet.

### **PERSONAL PROTECTIVE EQUIPMENT (PPE)**

#### **Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves made of barrier laminate, butyl rubber  $\geq 14$  mils, nitrile rubber  $\geq 14$  mils, neoprene rubber  $\geq 14$  mils, polyvinyl chloride (PVC)  $\geq 14$  mils, or Viton®  $\geq 14$  mils
- Shoes plus socks.

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.

### **Engineering Controls**

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

(MASTER)

## **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 wildlife, freshwater and estuarine/marine fish and highly toxic to aquatic invertebrates. Runoff may be hazardous to aquatic organisms in neighboring areas. Exposed treated seed may be hazardous to wildlife. Cover seed spilled during loading. Do not contaminate water when disposing of equipment washwater or rinsate.

### **Pollinator Precautions**

Thiamethoxam is highly toxic to bees exposed to direct treatment, and effects may be possible as a result of exposure to translocated residues in blooming crops.

### **Groundwater Advisory**

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

Mefenoxam is known to leach through soil into ground water under certain conditions as a result of label use. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

### **Physical and Chemical Hazards**

Do not use, pour, spill or store near heat or open flame. Do not store near or use with oxidizing agents.

(MASTER)

---

**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 this 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.

(MASTER)

## DIRECTIONS FOR USE

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

For use in commercial seed treatment facilities. Use is also permitted as an end-use seed treatment on agricultural establishments at planting, or immediately before planting, as specified in the Specific Crop Use Directions. This product is to be used in liquid or slurry treaters only.

Treatment of highly mechanically scarred or damaged seed or seed known to be of low vigor and poor quality may result in reduced germination and/or reduction of seed and seedling vigor. Treat a quantity of seed using equipment similar to that planned for treating the total seed lot. Prior to treatment, conduct germination tests on a portion of seed before committing the total seed lot to a selected seed treatment.

Due to seed quality, crop or variety sensitivity, and seed storage conditions beyond the control of Syngenta, no claims are made to guarantee the germination of seed or propagating material for all crop seed when treated with THX/MXM/FLD/TBZ/SDX FS.

**Maximum usage when applying metalaxyl- and mefenoxam- containing products to the same crop within the same season:** Do not apply more than the maximum yearly total application rate for the active ingredient as stated on the label of the product containing the lowest yearly total on that crop.

**FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR INSECT AND/OR DISEASE CONTROL, AND/OR ILLEGAL RESIDUES.**

### AGRICULTURAL USE REQUIREMENTS

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

**Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 48 hours.** Exception: If the seed is treated with the product and the treated seed is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

(MASTER)

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves made of barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils, polyvinyl chloride (PVC) ≥14 mils, or Viton® ≥14 mils
- Shoes plus socks

---

## PRODUCT INFORMATION

---

THX/MXM/FLD/TBZ/SDX FS is a seed treatment product containing the active ingredients thiamethoxam (insecticide) and fludioxonil, thiabendazole, mefenoxam and sedaxane (fungicides). THX/MXM/FLD/TBZ/SDX FS protects against damage from listed early-season insects, soil-borne and seed-borne diseases of soybeans.

Thiamethoxam is a systemic seed treatment insecticide belonging to the neonicotinoid class of chemistry. Thiamethoxam protects against listed chewing and sucking insects through contact and ingestion.

Mefenoxam fungicide is active against *Pythium*, *Phytophthora* and systemic downy mildew.

Thiabendazole fungicide is active for protection against phomopsis spp. to improve germination and early season seedling health. Thiabendazole also suppresses seed-borne *Sclerotinia* and *Phomopsis* species.

Fludioxonil fungicide is active against *Fusarium* and *Rhizoctonia*, and suppresses seed-borne *Sclerotinia* and *Phomopsis* species.

Sedaxane fungicide is active against seed decay, seedling blight and damping-off caused by *Rhizoctonia* species.

---

## RESISTANCE MANAGEMENT

---

<b>THIABENDAZOLE</b>	<b>GROUP</b>	<b>1</b>	<b>FUNGICIDE</b>
<b>MEFENOXAM</b>	<b>GROUP</b>	<b>4</b>	<b>FUNGICIDE</b>
<b>SEDAXANE</b>	<b>GROUP</b>	<b>7</b>	<b>FUNGICIDE</b>
<b>FLUDIOXONIL</b>	<b>GROUP</b>	<b>12</b>	<b>FUNGICIDE</b>

For resistance management, please note that THX-MXM/FDL/TBZ/SDX FS contains Group 1/ thiabendazole, Group 4/ mefenoxam, Group 7/sedaxane and Group 12/fludioxonil fungicides. Any fungal population may contain individuals naturally



(MASTER)

resistant to THX-MXM/FLD/TBZ/SDX FS and other Group 1, Group 4, Group 7 or Group 12 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

Thiabendazole belongs to the methyl-benzimidazole carbamate class of chemistry which disrupts  $\beta$ -tubulin assembly in mitosis. Mefenoxam belongs to the phenylamide class of chemistry which interferes with fungal RNA synthesis. Sedaxane is a succinate dehydrogenase inhibitor (SDHI) and belongs to the carboxamide class of chemistry which disrupts cellular respiration and energy generation. Fludioxonil belongs to the phenylpyrrole class of chemistry which interferes with a MAP/histidine protein kinase in osmotic signal transduction.

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

- Rotate the use of THX-MXM/FLD/TBZ/SDX FS or other Group 1, Group 4, Group 7 or 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.

<b>THIAMETHOXAM</b>	<b>GROUP 4A</b>	<b>INSECTICIDE</b>
---------------------	-----------------	--------------------

For resistance management, THX/MXM/FLD/TBZ/SDX FS contains a Group 4A/thiamethoxam insecticide. Any insect population may contain individuals naturally resistant to THX/MXM/FLD/TBZ/SDX FS and other Group 4A insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

Thiamethoxam is a systemic insecticide belonging to the neonicotinoid class of chemistry which includes nicotinic acetylcholine receptor (nAChR) agonists.

(MASTER)

**In order to maintain susceptibility to this class of chemistry:**

- Use products at their full, specified doses.
- Use appropriate, well-maintained equipment. Use specified water volumes and apply at optimal temperatures in order to obtain optimal treatment.
- When rate ranges are given, use the higher rate within the listed rate range when insect pressure is expected to be high.
- Avoid using a single active ingredient or mode of action (same insecticide group) exclusively for season long control of insect species with more than one generation per crop season.
- For insect species with successive or overlapping generations, use a treatment window approach. A treatment window is a period of time defined by the stage of crop development and the biology of the pests of concern. Within the treatment window, depending on the length of residual activity, single or consecutive applications may be made using seed, in-furrow, or foliar treatments unless otherwise excluded by product labels. Do not exceed the maximum amount of this insecticide's mode of action allowed per growing season.
- Following a treatment window of this insecticide's mode of action, rotate to a treatment window of effective products with a different mode of action before making additional applications of this insecticide.

**Other Insect Resistance Management (IRM) practices include:**

- Incorporating IPM techniques into your insect control program.
- Monitoring treated insect populations for loss of field efficacy.
- Using tank-mixtures or premixes with insecticides from a different target site of action group as long as the involved products are all registered for the same crop outlet and effective rates are applied.

**For additional information on Insecticide or Fungicide Resistance Management:**

- Contact Syngenta representatives at 1-800-334-9481
- Contact your local Cooperative Extension Service specialist, pest control advisor, or certified crop advisor
- Visit the Insecticide Resistance Action Committee (IRAC) on the web at: <http://www.irac-online.org> or the Fungicide Resistance Action Committee (FRAC) on the web at: <http://www.frac.info>

Syngenta encourages responsible product stewardship to ensure effective long term control of the insect and fungal diseases on this label.

(MASTER)

---

## CROP ROTATIONAL RESTRICTIONS

---

In the event of a crop failure or harvest of a crop grown from THX/MXM/FLD/TBZ/SDX FS treated seed, the field may be replanted according to the following schedule:

Immediate Plantback	Minimum 30-Day Plantback Interval	Minimum 120-Day Plantback Interval
Cereal Grains: Barley, Oats, Rye, Triticale, and Wheat  Peas, Dried Shelled: Chickpea (Garbanzo Bean), Field Pea, Lentil, and Pigeon Pea  Soybean	Alfalfa  <i>Brassica</i> (Cole) Leafy Vegetables  Cereal Grains (buckwheat, corn, pearl millet, proso, popcorn, rice (dry-seeded), sorghum, teosinite, wild rice)  Cotton  Cucurbit Vegetables  Fruiting Vegetables  Globe Artichoke  Leafy Vegetables  Legume Vegetables (Succulent or Dried)  Mint: Peppermint and Spearmint  Oilseeds: Borage, Crambe, Flax Seed, Mustard Seed, and Safflower  Peanut  Root Vegetables  Strawberry  Sunflower  Tobacco	All Other Crops

For any other crop, the minimum plant back interval is 120 days from the date the THX/MXM/FLD/TBZ/SDX FS treated seed was planted. A cover crop other than the crops listed above that is planted for erosion control or soil improvement may be planted sooner than the 120 day interval; however, the crop may not be grazed or harvested for food or feed.

---

## MIXING PROCEDURES

---

**Important:** Always re-circulate THX/MXM/FLD/TBZ/SDX FS thoroughly before using.

Consult the manufacturer of the application equipment you plan to use for suitability for this application and for instructions on operation and calibration of the equipment.

(MASTER)

Follow the manufacturer application instructions for the seed treatment equipment being used.

Use an EPA approved dye/colorant that imparts an unnatural color to the seed as required in 40CFR 153.155(c).

Apply THX/MXM/FLD/TBZ/SDX FS as a water-based slurry utilizing standard slurry or direct inject seed treatment equipment which provides uniform seed coverage. Uneven or incomplete seed coverage may not give the desired level of disease control. Thoroughly mix the specified amount of THX/MXM/FLD/TBZ/SDX FS into the required amount of water or liquid inoculant for the slurry treater and dilution rate to be used. For direct product inject systems, add the required amount of water or liquid inoculant during application.

Certain crops require addition of inoculants when the seed is treated or planted. THX/MXM/FLD/TBZ/SDX FS is compatible with several liquid inoculant products. Consult the maker of the inoculant product and a Syngenta representative for directions before applying THX/MXM/FLD/TBZ/SDX FS with inoculants.

The total application volume must be sufficient to provide desired level of coverage. Dilution is typically done with water or liquid inoculants. The minimum slurry volume to achieve minimum adequate coverage is 4.0 fluid ounces per 100 pounds of seed assuming an average seed size of 3,000 seeds per pound (slurry volume will vary depending on seed size). More diluent may be required to obtain complete coverage.

Continuous agitation or mixing of the slurry mixture is necessary to prevent settling out of the solution.

Allow seed to dry before bagging or reprocessing directly after treating operation.

Follow planter manufacturer specifications for use of talc or other hopper box additives at planting. Seed must be completely dry before adding to planter.

---

## **SEED BAG LABEL REQUIREMENTS**

---

The Federal Seed Act requires that bags containing treated seeds shall be labeled with the following statements:

- This seed has been treated with thiamethoxam insecticide and fludioxonil, mefenoxam, thiabendazole and sedaxane fungicides.
- Do not use for feed, food, or oil purposes.

In addition, the U.S. Environmental Protection Agency requires the following statements on bags containing seeds treated with THX/MXM/FLD/TBZ/SDX FS:

- Ground Water Advisory:

(MASTER)

Thiamethoxam has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow. Mefenoxam is known to leach through soil into ground water under certain conditions as a result of agricultural use. This chemical may leach into the ground water if used in areas where soils are permeable, particularly where the water table is shallow.

- Pollinator Precautions:  
Thiamethoxam is highly toxic to bees, and effects are possible as a result of exposure to translocated residues in blooming crops.
- Excess treated seed may be used for ethanol production only if (1) by-products are not used for livestock feed and (2) no measurable residues of pesticide remain in the ethanol by-products that are used in agronomic practice.
- Do not allow children, pets, or livestock to have access to treated seed.
- Store away from feeds and foodstuffs.
- Wear long-sleeved shirt, long pants and chemical resistant gloves when handling treated seed.
- Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading.
- Treated seed must be planted into the soil at a depth greater than 1 inch.
- Dispose of all excess treated seed. Leftover treated seed may be doublesown around the headland or buried away from water sources in accordance with local requirements.
- Do not contaminate water bodies when disposing of planting equipment wash waters.
- Dispose of seed packaging in accordance with local requirements.
- Do not graze or feed livestock on treated areas for 45 days after planting seed treated with THX/MXM/FLD/TBZ/SDX FS.
- In the event of a crop failure or harvest of a crop grown from THX/MXM/FLD/TBZ/SDX FS treated seed, the field may be replanted according to the following schedule.

(MASTER)

Immediate Plantback	Minimum 30-Day Plantback Interval	Minimum 120-Day Plantback Interval
<p>Cereal Grains: Barley, Oats, Rye, Triticale, and Wheat</p> <p>Peas, Dried Shelled: Chickpea (Garbanzo Bean), Field Pea, Lentil, and Pigeon Pea</p> <p>Soybean</p>	<p>Alfalfa</p> <p><i>Brassica</i> (Cole) Leafy Vegetables</p> <p>Cereal Grains (bucvkwheat, corn, pearl millet, proso, popcorn, rice (dry-seeded), sorghum, teosinite, wild rice</p> <p>Cotton</p> <p>Cucurbit Vegetables</p> <p>Fruiting Vegetables</p> <p>Globe Artichoke</p> <p>Leafy Vegetables</p> <p>Legume Vegetables (Succulent or Dried)</p> <p>Mint: Peppermint and Spearmint</p> <p>Oilseeds: Borage, Crambe, Flax Seed, Mustard Seed, and Safflower</p> <p>Peanut</p> <p>Root Vegetables</p> <p>Strawberry</p> <p>Sunflower</p> <p>Tobacco</p>	<p>All Other Crops</p>

- For any other crop, the minimum plant back interval is 120 days from the date the THX/MXM/FLD/TBZ/SDX FS treated seed was planted. A cover crop other than the crops listed above that is planted for erosion control or soil improvement may be planted sooner than the 120 day interval; however, the crop may not be grazed or harvested for food or feed.
- Do not use at a rate that will result in more than 0.083 lb thiamethoxam (37.8 grams ai/A) per acre, 0.004 lb fludioxonil (2.0 grams ai/A) per acre and 0.013 lb mefenoxam (5.7 grams ai/A) per acre per calendar year as a seed treatment application.
- This seed has been treated with 0.0756 mg ai thiamethoxam, 0.0113 mg mefenoxam, and 0.0038 mg fludioxonil per seed.
- Do not use more than 0.266 lb ai/A of thiamethoxam per calendar year, including all thiamethoxam products and application methods (for example, seed treatment, in-furrow, and foliar).
- Do not apply a neonicotinoid insecticide within 45 days of planting seed treated with THX/MXM/FLD/TBZ/SDX FS.

(MASTER)

---

## USE DIRECTIONS

---

When applied according to the **THX/MXM/FLD/TBZ/SDX FS RATE TABLE**, THX/MXM/FLD/TBZ/SDX FS provides early season protection against injury by aphids, bean leaf beetle, grape colaspis, leaf miners, leaf hoppers, Mexican bean beetle, seed corn maggot, three-cornered alfalfa hopper, thrips, white grubs, and wireworm.

THX/MXM/FLD/TBZ/SDX FS provides protection against damping-off and seed borne rots due to *Pythium*, *Phytophthora*, *Fusarium*, *Rhizoctonia* species and early season *Phytophthora* root rot. THX/MXM/FLD/TBZ/SDX FS also suppresses seed-borne *Sclerotinia* and *Phomopsis* species.

**THX/MXM/FLD/TBZ/SDX FS Rate Table<sup>1</sup>**

Crop	Rate of THX/MXM/FLD/TBZ/SDX FS		
	fl oz per 100 lb seed or fl oz per 140,000 seeds	grams ai per 100 kg seed	mg ai per seed <sup>2</sup>
Soybean, including soybean, vegetable	2.96 fl oz or 1.38 fl oz per 140,000 seeds	Thiamethoxam 50 g Mefenoxam 7.5 g Thiabendazole 5.0 g Fludioxonil 2.5 g Sedaxane 2.5 g	Total = 0.102

<sup>1</sup>The mg ai per seed and fl oz THX/MXM/FLD/TBZ/SDX FS per 100 lb seed rates are based on 3,000 seeds per pound.

<sup>2</sup>This seed has been treated with 0.0756 mg ai/seed of thiamethoxam, 0.0113 mg ai/seed of mefenoxam, 0.0076 mg ai/seed of thiabendazole, 0.0038 mg ai/seed of fludioxonil, and 0.0038 mg ai/seed of sedaxane.

## USE RESTRICTIONS

- Do not allow children, pets, or livestock to have access to treated seed.
- Do not graze or feed livestock on treated areas for 45 days after planting seed treated with THX/MXM/FLD/TBZ/SDX FS.
- Do not use at a rate that will result in more than 0.083 lb thiamethoxam (37.8 grams ai/A) per acre, 0.004 lb fludioxonil (2.0 grams ai/A) per acre and 0.013 lb mefenoxam (5.7 grams ai/A) per acre per calendar year as a seed treatment application.
- This seed has been treated with 0.0756 mg ai thiamethoxam, 0.0113 mg mefenoxam, and 0.0038 mg fludioxonil per seed.
- Do not use more than 0.266 lb ai/A of thiamethoxam per calendar year, including all thiamethoxam products and application methods (for example, seed treatment, in-furrow, and foliar).



(MASTER)

- Do not apply a neonicotinoid insecticide within 45 days of planting seed treated with THX/MXM/FLD/TBZ/SDX FS.

## STORED GRAIN PROTECTION

When treated according to the directions for post-planting protection against listed pests, THX/MXM/FLD/TBZ/SDX FS will also provide protection during post treatment storage of the soybean seed against damage from the following stored grain insects: Indian Meal Moth (*Plodia interpunctella*), Rice Weevil (*Sitophilus oryza*), Red Flour Beetle (*Tribolium castaneum*), and Lesser Grain Borer (*Rhizopertha dominica*).

If the soybean seed to be treated has existing infestations of stored grain insects, fumigate the seed with a registered product approved for such use prior to treating with THX/MXM/FLD/TBZ/SDX FS and bagging.

## STORAGE AND DISPOSAL

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

### Pesticide Storage

Store in a cool, dry place. Storage for extended periods above 90°F is not recommended.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. 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 may be disposed of on site or at an approved waste disposal facility. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

### Container Handling [less than or equal to 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 and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary



(MASTER)

landfill, or by incineration, or by other procedures approved by state and local authorities.

**Container Handling [greater 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  $\frac{1}{4}$  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 approved by state and local authorities.

**Refillable container.** Refill this container with pesticide 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 person refilling. To clean 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. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing 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 approved by state and local authorities.

**CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!**

Viton® trademark of E.I. du Pont de Nemours and Company

©20XX Syngenta

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

THX-MXM-FLD-TBZ-SDX FS 1559 MAS 0616 AMEND 0618 – mar – 06/04/18  
000100-01559.20180530.THX-MXM-FLD-TBZ-SDX\_FS.AMEND-JUN2018.PDF

THX-MXM-FLD-TBZ-SDX FS 1559 MAS 0616 AMEND 0618-HI – mar – 06/04/18  
000100-01559.20180530.THX-MXM-FLD-TBZ-SDX\_FS.AMEND-JUN2018-HI.PDF