



## OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

March 25, 2025

Matthew Feinberg  
Group Leader Regulatory Affairs  
BASF Corporation  
26 Davis Drive  
Research Triangle Park, NC 27709

Subject: Label Amendment - Registration Review Mitigation for Metalaxyl and  
Pyraclostrobin  
Product Name: Obvius Fungicide Seed Treatment  
EPA Registration Number: 7969-371  
Application Date: October 28, 2020, and December 1, 2020  
Decision Number: 567332 and 568432  
Case Number: 478003 and 478458

Dear Matthew Feinberg:

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 Pyraclostrobin and Metalaxyl/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 Assurance.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling and must be used at your next label printing. 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 Concepción Rodríguez by phone at 202-566-0820, or via email at [rodriguez.concepcion@epa.gov](mailto:rodriguez.concepcion@epa.gov).

Sincerely,

A handwritten signature in blue ink, appearing to read "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: Stamped label



We create chemistry

Metalaxyl	Group	4	Fungicide
Fluxapyroxad	Group	7	Fungicide
Pyraclostrobin	Group	11	Fungicide

# Obvius®

## Fungicide Seed Treatment

Alternate Brand Names: Aramax™ F3 Seed Treatment, Vercoras™ F3 Seed Treatment

**ACCEPTED**

Mar 25, 2025

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 7969-371

**For commercial and on-farm use**

**A suspension concentrate for control of various seed-borne and soil-borne diseases in edible-podded legume vegetables (crop subgroup 6A); dried shelled pea and bean (crop subgroup 6C) including lentils, field pea, chickpeas and dry beans; succulent shelled pea and bean; rapeseed (crop subgroup 20A), including canola, *Brassica juncea*, and canola oil quality mustards and flax; and soybean**

### Active Ingredients:

fluxapyroxad\*: 1*H*-Pyrazole-4-carboxamide, 3-(difluoromethyl)-1-methyl-*N*-(3',4',5'-trifluoro[1,1'-biphenyl]-2-yl)- . . . . . 1.58%

pyraclostrobin\*\*: (carbamic acid, [2-[[[1-(4-chlorophenyl)-1*H*-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester) . . . . . 1.58%

metalaxyl\*\*\*: *N*-(2,6-dimethylphenyl)-*N*-(methoxyacetyl) alanine methyl ester . . . 1.26%

**Other Ingredients:** . . . . . 95.58%

**Total:** . . . . . 100.00%

\* Contains 0.139 lb of the active ingredient fluxapyroxad per U.S. gallon

\*\* Contains 0.139 lb of the active ingredient pyraclostrobin per U.S. gallon

\*\*\* Contains 0.111 lb of the active ingredient metalaxyl per U.S. gallon

**EPA Reg. No. 7969-371**

**EPA Est. No.**

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION/PRECAUCION**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

See full label for complete **First Aid, Precautionary Statements, Directions For Use, Conditions of Sale and Warranty**, and state-specific crop and/or use site restrictions.

**In case of an emergency endangering life or property involving this product, call day or night 1-800-832-HELP (4357).**

### Net Contents:

BASF Agricultural Solutions US LLC  
2 TW Alexander Drive  
Research Triangle Park, NC 27713

FIRST AID	
<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>• <b>DO NOT</b> induce vomiting unless told to by a poison control center or doctor.</li> <li>• <b>DO NOT</b> give anything by mouth to an unconscious person.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after first 5 minutes; then continue rinsing.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably by mouth to mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
HOTLINE NUMBER	
<p>Have the product container or label with you when calling a poison control center or doctor or going for treatment. In case of medical emergency involving this product, call BASF Agricultural Solutions US LLC (hereafter "BASF") at 1-800-832-HELP (4357) or dial 911.</p>	
NOTE TO PHYSICIAN	
<p>No specific antidote is available. Treat symptomatically.</p>	

## Precautionary Statements

### Hazards to Humans and Domestic Animals

**CAUTION.** Harmful if swallowed. Causes moderate eye irritation. Harmful if absorbed through skin. Avoid breathing spray mist or contact with skin, eyes, or clothing. Wash hands 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
- Shoes plus socks
- 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

Follow the 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 pesticide is toxic to fish and aquatic invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. **DO NOT** apply directly to water, or to areas where surface water is present, or intertidal areas below the mean high water mark. **DO NOT** contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

**DO NOT** discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing before discharge. **DO NOT** discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or the regional office of the EPA.

Treated seed exposed on soil surface may be hazardous to wildlife. Cover or collect seeds spilled during loading. If treated seed is spilled outdoors or in areas accessible to birds or endangered species, promptly clean up and dispose of (cover or collect) spilled treated seed to prevent ingestion. Dispose of all excess treated seed by burying seed away from bodies of water.

**Surface Water Advisory**

This product may impact surface water quality due to run-off of rainwater. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features including ponds, streams, and springs will reduce the potential loading of pyraclostrobin from run-off water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours. Sound erosion control practices will reduce this product’s contribution to surface water contamination.

**Groundwater Advisory**

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

**Directions For Use**

It is a violation of federal law to use this product in a manner inconsistent with its labeling. This labeling must be in the possession of the user at the time of fungicide seed treatment application.

**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.

**DO NOT** mix or allow coming in contact with oxidizing agent. Hazardous chemical reaction may occur.

Unless otherwise directed in supplemental labeling, all applicable directions, restrictions, precautions, and **Conditions of Sale and Warranty** are to be followed.

**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 the restricted-entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

**DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of **24 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.

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

- Coveralls
- Socks and shoes
- 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

**STORAGE AND DISPOSAL**

**DO NOT** contaminate water, food, or feed by storage or disposal.

**Pesticide Storage**

Store in original container. Keep container closed and in a secure place. Store in an area that is out of reach of children and animals, away from food, feedstuffs, fertilizers and seed. Protect from frost and freezing.

**Pesticide Disposal**

Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

**Container Handling**

**Nonrefillable Container. DO NOT reuse or refill this container.** Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

(continued)

## STORAGE AND DISPOSAL *(continued)*

### Container Handling *(continued)*

**Triple rinse containers small enough to shake (capacity ≤ 5 gallons) as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**Triple rinse containers too large to shake (capacity > 5 gallons) as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container 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.

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

**Refillable Container.** Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. For final disposal, triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

**Triple rinse as follows:** To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% 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.

*(continued)*

## STORAGE AND DISPOSAL *(continued)*

### Container Handling *(continued)*

When this container is empty, replace the cap and seal all openings that have been opened during use; return the container to the point of purchase or to a designated location. This container must only be refilled with a pesticide product. Prior to refilling, inspect carefully for damage including cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transport. **DO NOT** transport if this container is damaged or leaking. If the container is damaged, or leaking, or obsolete and not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling, if available, or dispose of container in compliance with state and local regulations.

### In Case of Spill

In case of a large-scale spill of this product, call:

- CHEMTREC 1-800-424-9300
- BASF 1-800-832-HELP (4357)

In case of medical emergency regarding this product, call:

- Your local doctor for immediate treatment
- Your local poison control center (hospital)
- BASF 1-800-832-HELP (4357)

### Steps to take if this material is released into the environment or spilled:

- Wear **Personal Protective Equipment (PPE)** and avoid exposure when managing a spill. (See **Precautionary Statements** section of this label for required PPE.)
- Dike and contain the spill with inert, absorbent material (e.g., sand, earth) and transfer liquid and solid diking material to separate containers for disposal. Small-scale spills of this product (that can be cleaned up with a typical spill kit) may be applied to labeled sites.
- Remove contaminated clothing, and wash affected skin areas with soap and water. Wash clothing before reuse.
- Keep spill out of all sewers and open bodies of water.

### Use Restrictions

- **DO NOT** use treated seed for food, feed or oil processing.
- **DO NOT** store **Obvius® fungicide seed treatment** near feed or foodstuffs.
- **DO NOT** contaminate feed or foodstuffs.
- **DO NOT** contaminate domestic or irrigation waters.
- **DO NOT** plant crops within 12 months after planting **Obvius**-treated seed unless permitted according to the seed labeling note.
- **DO NOT** use the same auger or other seed treatment equipment for treating seed that will handle commercial or feed grains unless these have been thoroughly cleaned.



- **DO NOT** store leftover treated seed where it could be mixed with untreated seed. Store treated seed in cool, dry conditions.
- When applying both 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.

## SEED CONTAINER LABEL REQUIREMENT

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

- This seed has been treated with **Obvius® fungicide seed treatment**, a fungicide containing **pyraclostrobin, fluxapyroxad, and metalaxyl**.
- **DO NOT** use treated seed for food, feed or oil purposes.

The U.S. Environmental Protection Agency requires the following statements on containers containing seed treated with **fluxapyroxad, pyraclostrobin, and metalaxyl**:

- Store treated seed away from food and feedstuffs.
- **DO NOT** allow children, pets or livestock to have access to treated seed.
- Wear long-sleeved shirt and long pants, shoes plus socks, and 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 when opening this bag or handling (e.g., loading, pouring) treated seed or seed pieces.
- **DO NOT** enter or allow worker entry into areas with treated seeds during the restricted entry interval of 24 hours, with the exception that workers may enter if they will have no contact with the soil/media subsurface.
- Treated seed exposed on soil surfaces may be hazardous to wildlife. Plant treated seed into the soil to the specified minimum depth or greater to minimize exposure. Cover or collect treated seed spilled during loading and planting, in particular at row ends and field corners.
- Dispose of all excess treated seed by burying seed away from bodies of water.
- Dispose of seed packaging or containers in accordance with local requirements. 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 ethanol by-products that are used in agronomic practice.

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## SEED CONTAINER LABEL REQUIREMENT

(continued)

- When applying both **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. Regardless of method of application (seed treatment, soil, or foliar), **DO NOT** apply more than 12.3 lbs metalaxyl/A per year.
- **Environmental Hazards:** This pesticide is toxic to fish and aquatic invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. **DO NOT** apply directly to water, or 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 washwaters or rinsate.
- **Surface Water Advisory:** This product may impact surface water quality due to runoff of rainwater. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features including ponds, streams, and springs will reduce the potential loading of **pyraclostrobin** from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours. Sound erosion control practices will reduce this product's contribution to surface water contamination.
- **Groundwater Advisory: Pyraclostrobin** is known to leach through soil into groundwater under certain conditions as a result of label use. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

In the event of crop failure or harvest of a crop grown from this seed, the field may be replanted immediately with peas and beans, flax seed, rapeseed, soybean, or any other crop for which tolerances for **pyraclostrobin, fluxapyroxad, and metalaxyl** exist. For all other crops, the minimum plant back interval is 12 months from the date this seed was planted. A cover crop without these tolerances may be planted for purposes of erosion control or soil improvement; however, the crop may not be grazed or harvested for food or feed.

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## Product Information

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**Obvius® fungicide seed treatment** is a liquid broad spectrum fungicide seed treatment that provides preventive seed and seedling protection from several seed-borne and soil-borne diseases.

**Obvius** contains an EPA-approved dye that imparts an unnatural color to the treated seed to prevent its accidental use as a food or feed for animals. Refer to 21 CFR, Part 2.25.

Refer to the **Diseases Controlled by Obvius® fungicide seed treatment** table for approved crops and associated diseases controlled by **Obvius**.

### Mode of Action

**Obvius** contains three active ingredients from different fungicide groups that have distinct modes of action.

- Pyraclostrobin is classified as a Target Site of Action **Group 11** fungicide.
- Fluxapyroxad is classified as a Target Site of Action **Group 7** fungicide.
- Metalaxyl is classified as a Target Site of Action **Group 4** fungicide.

Seed treatments of **Obvius** can be followed by foliar use fungicides. Follow the resistance management guidelines of foliar use fungicides containing the same modes of action as specified on the respective labels.

### Resistance Management

**Obvius** contains a **Group 4** (metalaxyl), **Group 7** (fluxapyroxad) and **Group 11** (pyraclostrobin) fungicide. Any fungal population may contain individuals naturally resistant to **Obvius** and other **Group 4**, **Group 7**, and/or **Group 11** fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but specific for individual chemicals, including enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

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

- Rotate the use of **Obvius** or other **Group 4**, **Group 7** and/or **Group 11** 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 pest management (IPM) 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. Monitor the efficacy of all fungicides used in the disease management program against the targeted pathogen and record other factors that may influence fungicide performance and/or disease development.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.
- For further information or to report suspected resistance, contact your BASF representative, local extension specialist, or certified crop advisor.

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## Application Method

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Seed must be well conditioned and free of chaff before treating with **Obvius**. Uniform seed coverage and proper application equipment calibration is essential for good disease control. Weather conditions (hot or cold), seed type and surface, and equipment used all have a bearing on the uniformity of coverage.

When applied at the indicated rate(s), dilution with water is not necessary unless directed by the manufacturer of the seed treatment application equipment. Consult a seed treatment specialist for calibration and operation procedures of the seed treatment equipment being used.

**Obvius** may be applied using standard commercial seed treatment equipment (including but not limited to, slurry or mist-type equipment) or on-farm seed treatment equipment. **Obvius** may also be used in on-the-go type air seeder treatment systems. **DO NOT** apply directly into a planter box.

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## Tank Mixing Information

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### Tank Mix Partners

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. When using **Obvius** in a tank mixture with other seed treatment products, read and follow all directions for use, crops/sites, application restrictions, dilution ratios, precautions, and limitations on the tank mix partner label. **DO NOT** exceed label dosage or application rate. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. **DO NOT** combine with any product that prohibits mixing.

### Compatibility Test for Tank Mix Components

When tank mixing **Obvius**, always test compatibility before use by performing a jar test as follows:

1. Add all intended seed treatment products and the appropriate amount of water in a clear glass jar.
2. Mix well and allow to sit for one hour.
3. Remix and observe for physical incompatibility.



Also test with the seed to ensure the combination of tank mix products does not have detrimental effects on the seed.

## Mixing Order

For containers 5 gallons or less, shake well before use. For containers greater than 5 gallons, recirculate before use.

1. **Water** - Add 3/4 of the required volume of water to the mix tank and turn on agitation.
2. **Agitation** - Mechanical agitation is required for proper mixing of **Obvius® fungicide seed treatment**.
3. **Dye or colorant**
4. **Wettable powders**
5. **Soluble powders**
6. **Flowable formulations** (for example **Obvius**)
7. **Emulsifiable concentrates**
8. **Water** - Remaining 1/4 of required water volume is added last and can be used as rinsate for the chemical container or to adjust the total slurry to compensate for water displacement by powdered products.

Maintain agitation until the entire slurry mixture has been used.

Ensure seed is dry before bagging.

Diseases Controlled by Obvius® fungicide seed treatment		
Crop	Target Disease	Use Rate fl ozs/100 lbs seed (lb ai/100 lbs seed)
<b>Edible-podded Pea and Bean (crop subgroup 6A)</b> <b>Cajanus cajan</b> Pigeon pea <b>Canavalia spp.</b> Jackbean Sword bean <b>Glycine max</b> Soybean (immature seed) <b>Phaseolus spp.</b> Runner bean Snap bean Wax bean <b>Pisum spp.</b> Dwarf pea Edible-pod pea Snow pea Sugar snap pea <b>Vigna spp.</b> Asparagus bean Chinese longbean Moth bean Yardlong bean	<ul style="list-style-type: none"> <li>• Anthracnose caused by seed-borne <i>Colletotrichum</i> spp.</li> <li>• Root rot, seed rot, and seedling blight caused by soil-borne: <ul style="list-style-type: none"> <li>- <i>Fusarium</i> spp.</li> <li>- <i>Pythium</i> spp.</li> <li>- <i>Rhizoctonia solani</i></li> </ul> </li> <li>• Seed rot and seedling blight caused by seed-borne <i>Botrytis cinerea</i></li> <li>• Seedling blight caused by seed-borne <i>Ascochyta</i> spp.</li> </ul>	4.6 (0.018)
<b>Use Restrictions</b> <ul style="list-style-type: none"> <li>• Regardless of method of application (seed treatment, soil, or foliar), <b>DO NOT</b> apply more than 12.3 lbs metalaxyl/A per year.</li> </ul>		

(continued)

## Diseases Controlled by Obvius® fungicide seed treatment (continued)

Crop	Target Disease	Use Rate fl ozs/100 lbs seed (lb ai/100 lbs seed)
<p><b>Dried Shelled Pea and Bean (except soybean) (crop subgroup 6C)</b></p> <p><b><i>Cajanus cajan</i></b> Pigeon pea</p> <p><b><i>Cicer arietinum</i></b> Chickpea/Garbanzo bean</p> <p><b><i>Cyamopsis tetragonoloba</i></b> Guar</p> <p><b><i>Lablab purpureus</i></b> Lablab/Hyacinth bean</p> <p><b><i>Lens esculenta</i></b> Lentil</p> <p><b><i>Lupinus spp.</i></b> Grain lupin Sweet lupin White lupin White sweet lupin</p> <p><b><i>Phaseolus spp.</i></b> Field bean Kidney bean Lima bean Navy bean Pinto bean Tepary bean</p> <p><b><i>Pisum spp.</i></b> Field pea</p> <p><b><i>Vicia faba</i></b> Broad/Fava bean</p> <p><b><i>Vigna spp.</i></b> Adzuki bean Black-eyed pea Catjang Cowpea Crowder pea Moth bean Mung bean Rice bean Southern pea Urd bean</p>	<ul style="list-style-type: none"> <li>• Anthracnose caused by seed-borne <i>Colletotrichum</i> spp.</li> <li>• Root rot, seed rot, and seedling blight caused by soil-borne: <ul style="list-style-type: none"> <li>- <i>Fusarium</i> spp.</li> <li>- <i>Pythium</i> spp.</li> <li>- <i>Rhizoctonia solani</i></li> </ul> </li> <li>• Seed rot and seedling blight caused by seed-borne <i>Botrytis cinerea</i></li> <li>• Seedling blight caused by seed-borne <i>Ascochyta</i> spp.</li> </ul>	<p>4.6 (0.018)</p>
<p><b>Use Restrictions</b></p> <ul style="list-style-type: none"> <li>• Regardless of method of application (seed treatment, soil, or foliar), <b>DO NOT</b> apply more than 12.3 lbs metalaxyl/A per year.</li> </ul>		

(continued)

## Diseases Controlled by Obvius® fungicide seed treatment *(continued)*

Crop	Target Disease	Use Rate fl ozs/100 lbs seed (lb ai/100 lbs seed)
<b>Succulent shelled Pea and Bean</b> <b><i>Cajanus cajan</i></b> Pigeon pea <b><i>Phaseolus spp.</i></b> Lima bean (green) <b><i>Pisum spp.</i></b> English pea Garden pea Green pea <b><i>Vicia faba</i></b> Broad/Fava bean (succulent) <b><i>Vigna spp.</i></b> Blackeyed pea Cowpea Southern pea	<ul style="list-style-type: none"> <li>• Anthracnose caused by seed-borne <i>Colletotrichum</i> spp.</li> <li>• Root rot, seed rot, and seedling blight caused by soil-borne: <ul style="list-style-type: none"> <li>- <i>Fusarium</i> spp.</li> <li>- <i>Pythium</i> spp.</li> <li>- <i>Rhizoctonia solani</i></li> </ul> </li> <li>• Seed rot and seedling blight caused by seed-borne <i>Botrytis cinerea</i></li> <li>• Seedling blight caused by seed-borne <i>Ascochyta</i> spp.</li> </ul>	4.6 (0.018)
<b>Flax Seed</b> <i>Linum usitatissimum</i>	<ul style="list-style-type: none"> <li>• Root rot, seed rot, and seedling blight caused by soil-borne: <ul style="list-style-type: none"> <li>- <i>Fusarium</i> spp.</li> <li>- <i>Rhizoctonia solani</i></li> </ul> </li> </ul>	4.6 (0.018)
<b>Use Restrictions for Succulent shelled Pea and Bean</b> <ul style="list-style-type: none"> <li>• Regardless of method of application (seed treatment, soil, or foliar), <b>DO NOT</b> apply more than 12.3 lbs metalaxyl/A per year.</li> <li>• Restriction not applicable to flax seed.</li> </ul>		

*(continued)*

## Diseases Controlled by Obvius® fungicide seed treatment (continued)

Crop	Target Disease	Use Rate fl ozs/100 lbs seed (lb ai/100 lbs seed)
<p><b>Rapeseed (except flax seed)</b> <b>(crop subgroup 20A)</b></p> <p><b>Cultivars, varieties, and/or hybrids of:</b></p> <p><b><i>Borago officinalis</i></b> Borage</p> <p><b><i>Crambe hispanica/C. abyssinica</i></b> Crambe</p> <p><b><i>Cuphea hyssopifolia</i></b> Cuphea</p> <p><b><i>Echium plantagineum</i></b> Echium</p> <p><b><i>Camelina sativa</i></b> Gold of Pleasure</p> <p><b><i>Conringia orientalis</i></b> Hare's ear mustard</p> <p><b><i>Lesquerella recurvata</i></b> Lesquerella</p> <p><b><i>Lunaria annua</i></b> Lunaria</p> <p><b><i>Limnanthes alba</i></b> Meadowfoam</p> <p><b><i>Asclepias</i> spp.</b> Milkweed</p> <p><b><i>Brassica hirta</i> spp.</b> Mustard seed</p> <p><b><i>Raphanus sativus</i> var. <i>oleiformis</i></b> Oil radish</p> <p><b><i>Papaver somniferum</i> L. subsp. <i>somniferum</i></b> Poppy seed</p> <p><b><i>Brassica</i> spp./<i>Brassica napus</i> L.</b> Rapeseed</p> <p><b><i>Sesamum indicum/S. radiatum</i></b> Sesame</p> <p><b><i>Hesperis matronalis</i></b> Sweet rocket</p>	<ul style="list-style-type: none"> <li>• Root rot, seed rot, and seedling blight caused by soil-borne: <ul style="list-style-type: none"> <li>- <i>Fusarium</i> spp.</li> <li>- <i>Leptosphaeria maculans</i> (i.e., blackleg)</li> <li>- <i>Pythium</i> spp.</li> <li>- <i>Rhizoctonia solani</i></li> </ul> </li> <li>• Seedling blight and root rot caused by soil-borne <i>Alternaria brassicae</i></li> </ul>	<p>9.2 (0.036)</p>
<p><b>Soybean</b> <i>Glycine</i> spp.</p>	<ul style="list-style-type: none"> <li>• Anthracnose caused by seed-borne <i>Colletotrichum</i> spp.</li> <li>• Root rot, seed rot, and seedling blight caused by soil-borne: <ul style="list-style-type: none"> <li>- <i>Fusarium</i> spp.</li> <li>- <i>Pythium</i> spp.</li> <li>- <i>Rhizoctonia solani</i></li> </ul> </li> <li>• Seed rot and seedling blight caused by seed-borne <i>Botrytis cinerea</i></li> <li>• Seedling blight caused by seed-borne <i>Ascochyta</i> spp.</li> </ul>	<p>4.6 (0.018)</p>
<p><b>Use Restrictions for Soybean</b></p> <ul style="list-style-type: none"> <li>• Regardless of method of application (seed treatment, soil, or foliar), <b>DO NOT</b> apply more than 12.3 lbs metalaxyl/A per year.</li> <li>• Restriction not applicable to Rapeseed (except flax seed) (crop subgroup 20A).</li> </ul>		



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BASF Agricultural Solutions US LLC  
2 TW Alexander Drive  
Research Triangle Park, NC 27713

  
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