



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

February 25, 2022

Rebecca Willis
Product Registration Manager
BASF Corporation, Agricultural Products
P.O. Box 13528
Research Triangle Park, NC 27709

Subject: Label Amendment – Adding me-too uses for barley, oats, rye, and triticale; Incorporating Registration Review label mitigation for metconazole and prothioconazole.
Product Name: Sphaerex Fungicide
EPA Registration Number: 7969-473
Application Date: 4/20/2021
Decision Number: 580419

Dear Rebecca Willis:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

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 18 months from the date of this letter. After 18 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.

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.

Page 2 of 2
EPA Reg. No. 7969-473
Decision No. 580419

Your release for shipment of the product 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. If you have any questions, please contact Stephanie Suarez by phone at 202-566-2918, or via email at Suarez.Stephanie@epa.gov .



Nathan Mellor, Product Manager 21
Fungicide Branch
Registration Division (7505P)
Office of Pesticide Programs

Enclosure

{Note to PM: Italicized text enclosed in "{ }" is information for the reviewer and not part of the label.
[Bracketed information is optional text.] Text within brackets and separated by "/" denotes and/or options.}



We create chemistry

Metconazole	Group	3	Fungicide
Prothioconazole	Group	3	Fungicide

Sphaerex™

Fungicide

ACCEPTED

02/25/2022

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 7969-473

For disease control in wheat, barley, oats, rye, and triticale

Active Ingredients*:

metconazole: 5-[(4-chlorophenyl)methyl]-2,2-dimethyl-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol	10.91%
prothioconazole: 2-[2-(1-chlorocyclopropyl)-3-(2-Chlorophenyl)-2-hydroxypropyl]-1,2-dihydro-3H-1,2,4-triazole-3-thione	18.19%
Other Ingredients:	70.90%
Total:	100.00%

* Sphaerex™ fungicide contains 0.939 lb metconazole and 1.565 lbs prothioconazole per gallon.

EPA Reg. No. 7969-473

EPA Est. No.

KEEP OUT OF REACH OF CHILDREN

WARNING/AVISO

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 Corporation
26 Davis Drive, Research Triangle Park, NC 27709

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FIRST AID	
If in eyes	<ul style="list-style-type: none"> • Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. • Remove contact lenses, if present, after first 5 minutes; then continue rinsing. • Call a poison control center for treatment advice.
If on skin	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • DO NOT induce vomiting unless told to do so by a poison control center or doctor. • DO NOT give anything by mouth to an unconscious person.
If inhaled	<ul style="list-style-type: none"> • 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.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).	

Precautionary Statements

Hazards to Humans and Domestic Animals

WARNING. Causes substantial but temporary eye injury. Causes skin irritation. **DO NOT** get in eyes, on skin or on clothing. Wear appropriate protective eyewear (goggles, face shield, or safety glasses). Harmful if swallowed or absorbed through skin. Harmful if inhaled. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wear long-sleeved shirt and long pants, shoes plus socks and appropriate chemical-resistant/waterproof gloves. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Protective eyewear
- Long-sleeved shirt and long pants
- Chemical-resistant gloves, including barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride, or viton
- Shoes plus socks

User Safety Requirements

Follow the manufacturer’s instructions for cleaning and 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, enclosed cabs, or aircraft 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.

USER SAFETY RECOMMENDATIONS

Users should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove clothing/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 birds, mammals, fish, and aquatic invertebrates. Drift or 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 washwater or rinsate.

This product may impact surface water quality because of runoff of rainwater. This is especially true for poorly draining soils and soils with shallow groundwater.

Groundwater Advisory

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

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Surface Water Advisory

This product may impact surface water quality due to runoff of rain water. This product is classified as having a high potential for reaching surface water via runoff for several months or more after application. Poorly draining soils or soils with shallow water tables are more prone to produce runoff that contains this product. 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 for contamination of water from rainfall runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecast to occur within 48 hours.

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 user’s possession during application.

Read the entire label. Use strictly in accordance with precautionary statements and directions and with applicable state and federal regulations.

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.

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), restricted-entry interval, and notification to workers. 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 **12 hours**.

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, including plants, soil, or water, is:

- Protective eyewear
- Coveralls
- Chemical-resistant gloves, made of any waterproof material (including nitrile, butyl, neoprene, and/or barrier laminate)
- Shoes plus socks

STORAGE AND DISPOSAL

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

Pesticide Storage

Store in original containers only. Keep container closed when not in use. **DO NOT** store near food or feed.

DO NOT store below 10° F.

Pesticide Disposal

Pesticide wastes may be hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representatives at the nearest EPA Regional Office for guidance.

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.

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.

(continued)

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STORAGE AND DISPOSAL *(continued)*

Container Handling *(continued)*

Refillable Container. Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. 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.

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 Emergency

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

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

Steps to take if material is released or spilled:

- In case of spill on floor or paved surfaces, mop and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to label.
- Dike and contain the spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal.
- Remove contaminated clothing and wash affected skin areas with soap and water.
- Wash clothing before reuse.
- Keep the spill out of all sewers and open bodies of water.

Product Information

Sphaerex™ fungicide is a broad-spectrum fungicide containing the active ingredients metconazole and prothioconazole for use in wheat, barley, oats, rye, and triticale. For optimum disease control, apply **Sphaerex** in a regularly scheduled protective spray program and use in a rotation program with **non-Group 3** fungicides.

Mode of Action

Metconazole and prothioconazole, the active ingredients in **Sphaerex**, inhibit the demethylation step of sterol biosynthesis (DMI), which disrupts cell membrane synthesis and are classified by the Fungicide Resistance Action Committee (FRAC) as **Group 3** fungicides.

Resistance Management

Sphaerex contains **Group 3** fungicides. Any fungal population may contain individuals naturally resistant to **Sphaerex** and other **Group 3** fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Follow appropriate resistance management strategies.

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

- Rotate the use of **Sphaerex** or other **Group 3** fungicides within a growing season sequence with different groups that control the same pathogens.
- Use tank mixtures with fungicides 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 treatment area for lack of biological efficacy that might indicate possible resistance development.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance-management and/or **Integrated Pest Management (IPM)** guidance for specific crops and pathogens.
- For further information or to report suspected resistance, consult your local BASF representative, extension specialist, or certified crop advisor.

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Application Instructions

- **Sphaerex™ fungicide** can be applied by ground or air, and through field sprinkler irrigation (chemigation) systems.
- Application equipment, including injection systems, must be cleaned thoroughly before and after applying this product, particularly if a product with the potential to injure crops was used before application of **Sphaerex**. Flush system with clean water.

Use Rate Conversion		
fl ozs product/acre	lbs metconazole/acre	lb prothioconazole/acre
4	0.030	0.049
5	0.037	0.061
5.5	0.041	0.067
7.3	0.054	0.089
14.6	0.107	0.179

Ground Application

Thorough coverage of foliage and flowers is required for optimum disease control. A nonionic surfactant at the lowest labeled rate may be used to improve spray coverage. Refer to the adjuvant product label for specific use directions.

DO NOT use adjuvants that contain methylated seed oil, crop oil concentrate, or crop oil with emulsifier properties.

Aerial Application

Select spray nozzles, pumping pressure, and sprayer height to provide medium-to-fine spray droplets that penetrate throughout the crop canopy. Spray calibration must be conducted to confirm spray droplet sizes. Continue to monitor spray application (including weather conditions) to assure proper droplet size and canopy penetration. For all aerial application volumes (gpa), a nonionic surfactant at the lowest labeled rate may be used to improve spray coverage. Refer to the adjuvant product label for specific use directions.

DO NOT use adjuvants that contain methylated seed oil, crop oil concentrate, or crop oil with emulsifier properties.

Spray Drift Advisories

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT. BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

Importance of Droplet Size

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

Controlling Droplet Size - Ground Boom

- **Volume** - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical

spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.

- **Pressure** - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- **Spray Nozzle** - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

Controlling Droplet Size - Aircraft

- **Adjust Nozzles** - Follow nozzle manufacturers' recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

Boom Height - Ground Boom

For ground equipment, the boom should remain level with the crop and have minimal bounce.

Release Height - Aircraft

Higher release heights increase the potential for spray drift.

Shielded Sprayers

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

Boomless Ground Applications: Setting nozzles at the lowest effective height will help to reduce the potential for spray drift

Handheld Technology Applications: Take precautions to minimize spray drift.

Temperature and Humidity

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

Temperature Inversions

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

Wind

Drift potential generally increases with wind speed. Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

Field Sprinkler Irrigation (Chemigation) Application

- Apply this product only through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move

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irrigation systems. **DO NOT** apply this product through any other type of irrigation system.

- Add this product to the pesticide supply tank containing sufficient water to maintain a continuous flow by the injection equipment. In continuous moving systems, inject this product-water mixture continuously, applying the labeled rate per acre for that crop. **DO NOT** apply more than 1/2 inch (13,577 gallons) per acre. In stationary or non-continuous moving systems, inject the product-water mixture in the last 15 to 30 minutes of each set, allowing enough time to apply the labeled rate per acre through the sprinkler heads. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water. Thorough coverage of foliage and flowers is required for optimum disease control. Maintain constant agitation throughout mixing and application.
- If you have questions about calibration, contact state extension service specialists, equipment manufacturers, or other experts.
- The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water-source contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, for example, a positive displacement injection pump (e.g. diaphragm pump), effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. A person knowledgeable of the chemigation system and responsible for its operation or under supervision of the responsible person, shall shut the system down and make necessary adjustments if needed.
- **DO NOT** connect an irrigation system used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

Specific Instructions for Public Water Systems

1. Public water system means a system for the provision to the public of piped water for human consumption if such

system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system must be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
4. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, for example, a positive displacement injection pump (e.g., diaphragm pump), effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Tank Mixing Other Products and Additives

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

Sphaerex™ fungicide can be tank mixed with other fungicides, insecticides, herbicides, liquid fertilizers, biological control products, adjuvants, and additives. Always follow the most restrictive label use directions. See **Table 1. Detailed Use Directions** for additional information.

BASF has not tested all varieties and cultivars with all possible tank mix combinations and rates of additives or adjuvants. Local environmental conditions can also influence crop tolerance and may not match those under which BASF has conducted testing. Physical incompatibility, reduced disease control, or injury may result from mixing **Sphaerex** with other products.

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Rotational Crop Intervals

Barley, bushberry subgroup, canola, corn, cotton, dry beans and peas, oats, peanuts, rye, soybeans, sugar beets, triticale, and wheat may be planted as soon as practical after last application.

Brassica leafy vegetables and leafy vegetables, sorghum, sugarcane, sunflower, and tuberous and corm vegetables subgroup (potatoes) must not be planted within 30 days after the last application.

For all other crops, **DO NOT** plant sooner than 120 days after the last application.

Table 1. Detailed Use Directions

Target Disease	Product Use Rate per Application (fl ozs/A)	Maximum Number of Applications per Year	Maximum Product Rate per Year (fl ozs/A)	Minimum Time from Application to Harvest (PHI) (days)
Black point (kernel blight or smudge) <i>Alternaria</i> spp., <i>Cochliobolus sativus</i> , <i>Helminthosporium</i> spp.	4.0 to 5.0 (early season)	2	14.6	30
Powdery mildew <i>Erysiphe graminis</i>				
Rust <i>Puccinia</i> spp.				
Scald <i>Rynchosporium secalis</i>				
Septoria blotch, speckled leaf spot <i>Septoria</i> spp.				
Spot blotch <i>Cochliobolus sativus</i> , <i>Bipolaris sorokiniana</i>				
Stagonospora blotch <i>Parastagonospora nodorum</i>				
Tan spot (yellow leaf spot) <i>Pyrenophora</i> spp.	7.3			
Head scab (head blight) <i>Fusarium</i> spp.				

Application Directions

- Under certain environmental conditions, when **Sphaerex™ fungicide** is applied with emulsifiable concentrate (EC) formulated herbicides, bromoxynil contain products, insecticides, and/or fertilizers, phytotoxicity can occur. The possibility of phytotoxicity increases if applications are made under cool, wet, cloudy conditions that persist for several days following application. Lower gpa applications can increase the risk of phytotoxicity.
- Livestock may graze treated fields.

Foliar Applications

- When conditions favor disease or disease pressure is high, use the higher specified rate. For aerial applications, apply in a minimum of 2 gallons per acre (gpa) total spray volume. For ground applications, apply a minimum of 5 gpa.
- **Early Season:** Apply when conditions favor disease development or disease pressure is high prior to flag leaf emergence. When an early season application is used, a second application may be required to protect the flag leaf. Early season applications will not suppress or control head scab.
- **Flag Leaf:** To maximize yield, it is important to protect the flag leaf. For optimal disease control, begin applications prior to disease development or immediately after flag leaf emergence.

Head Scab Applications

- For best results, apply during early flowering using forward and reverse facing nozzles to ensure thorough coverage of the heads. For aerial applications, apply in a minimum of 2 gpa total spray volume. For ground applications, apply a minimum of 10 gpa.

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Table 1. Detailed Use Directions *(continued)*

Use Restrictions

- The minimum retreatment interval (RTI) is 14 days after the first application.
- *{Optional Text:}* **DO NOT** apply after Feekes Growth Stage 10.5.3.]
- **DO NOT** apply **Sphaerex™ fungicide** if the final spray solution contains fertilizer at a concentration more than 20% on a volume-to-volume (v/v) basis.
- **DO NOT** apply more than 7.3 fl ozs (0.054 lb metconazole plus 0.089 lb prothioconazole) per application per acre.
- **DO NOT** make more than 2 applications of **Sphaerex** or other **Group 3** fungicides per acre per year.
- **DO NOT** apply more than 14.6 fl ozs (0.107 lb metconazole plus 0.179 lb prothioconazole) per acre per year.

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Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, 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 weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S EXCLUSIVE REMEDY AND BASF'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT.

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007969-00473.20210420c.NVA 2021-04-629-0095
Supersedes: NVA 2020-04-629-0128

BASF Corporation
26 Davis Drive
Research Triangle Park, NC 27709


We create chemistry

Metconazole	Group	3	Fungicide
Prothioconazole	Group	3	Fungicide

Supplemental Label

Sphaerex™

Fungicide

For disease control in barley, oats, rye, and triticale

This supplemental label expires February 16, 2025, and must not be used or distributed after this date.

Active Ingredients*:

metconazole: 5-[(4-chlorophenyl)methyl]-2,2-dimethyl-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol	10.91%
prothioconazole: 2-[2-(1-chlorocyclopropyl)-3-(2-Chlorophenyl)-2-hydroxypropyl]-1,2-dihydro-3H-1,2,4-triazole-3-thione	18.19%
Other Ingredients:	70.90%
Total:	100.00%

* Sphaerex™ fungicide contains 0.939 lb metconazole and 1.565 lbs prothiconazole per gallon.

EPA Reg. No. 7969-473

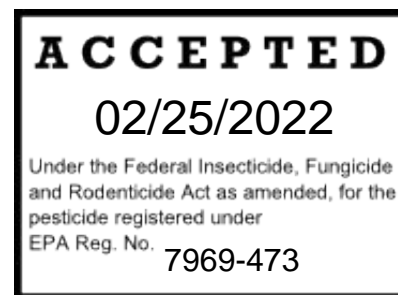
WARNING/AVISO

Directions For Use

- It is a violation of federal law to use this product in a manner inconsistent with its labeling.
- The supplemental labeling and the entire **Sphaerex™ fungicide** container label, EPA Reg. No. 7969-473, must be in possession of the user at the time of application.
- Read the label affixed to the container for **Sphaerex** before applying.
- Use of **Sphaerex** according to this labeling is subject to the use precautions and limitations imposed by the label affixed to the container for **Sphaerex**.

Application Instructions

Refer to **Sphaerex** container label for specific use directions, recommendations and restrictions in registered crops.



{Note to PM: Italicized text enclosed in “{}” is information for the reviewer and not part of the label.
 [Bracketed information is optional text.] Text within brackets and separated by “/” denotes and/or options.}

Table 1. Detailed Use Directions

Target Disease	Product Use Rate per Application (fl ozs/A)	Maximum Number of Applications per Year	Maximum Product Rate per Year (fl ozs/A)	Minimum Time from Application to Harvest (PHI) (days)
Black point (kernel blight or smudge) <i>Alternaria</i> spp., <i>Cochliobolus sativus</i> , <i>Helminthosporium</i> spp.	4.0 to 5.0 (early season)	2	14.6	30
Powdery mildew <i>Erysiphe graminis</i>				
Rust <i>Puccinia</i> spp.				
Scald <i>Rynchosporium secalis</i>				
Septoria blotch, speckled leaf spot <i>Septoria</i> spp.				
Spot blotch <i>Cochliobolus sativus</i> , <i>Bipolaris sorokiniana</i>				
Stagonospora blotch <i>Parastagonospora nodorum</i>				
Tan spot (yellow leaf spot) <i>Pyrenophora</i> spp.	7.3			
Head scab (head blight) <i>Fusarium</i> spp.				
<p>Application Directions</p> <ul style="list-style-type: none"> - Under certain environmental conditions, when Sphaerex™ fungicide is applied with emulsifiable concentrate (EC) formulated herbicides, bromoxynil contain products, insecticides, and/or fertilizers, phytotoxicity can occur. The possibility of phytotoxicity increases if applications are made under cool, wet, cloudy conditions that persist for several days following application. Lower gpa applications can increase the risk of phytotoxicity. - Livestock may graze treated fields. <p>Foliar Applications</p> <ul style="list-style-type: none"> - When conditions favor disease or disease pressure is high, use the higher specified rate. For aerial applications, apply in a minimum of 2 gallons per acre (gpa) total spray volume. For ground applications, apply a minimum of 5 gpa. - Early Season: Apply when conditions favor disease development or disease pressure is high prior to flag leaf emergence. When an early season application is used, a second application may be required to protect the flag leaf. Early season applications will not suppress or control head scab. - Flag Leaf: To maximize yield, it is important to protect the flag leaf. For optimal disease control, begin applications prior to disease development or immediately after flag leaf emergence. 				

(continued)

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Table 1. Detailed Use Directions *(continued)*

Head Scab Applications

- For best results, apply at the beginning of flowering using forward and reverse facing nozzles at higher water volumes to ensure thorough coverage of the heads. For aerial applications, apply in a minimum of 2 gpa total spray volume. For ground applications, apply a minimum of 10 gpa.

Use Restrictions

- The minimum retreatment interval (RTI) is 14 days after the first application.
- *{Optional Text:}* **DO NOT** apply after Feekes Growth Stage 10.5.3.]
- **DO NOT** apply **Sphaerex™ fungicide** if the final spray solution contains fertilizer at a concentration more than 20% on a volume-to-volume (v/v) basis.
- **DO NOT** apply more than 7.3 fl ozs (0.054 lb metconazole plus 0.089 lb prothioconazole) per application per acre.
- **DO NOT** make more than 2 applications of **Sphaerex** or other **Group 3** fungicides per acre per year.
- **DO NOT** apply more than 14.6 fl ozs (0.107 lb metconazole plus 0.179 lb prothioconazole) per acre per year.

Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, 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 weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above.

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