

2023-6599
2023-12-15

****Container Label****

GROUP	3	FUNGICIDE
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NCS ZIMBULUS 250 FUNGICIDE
EMULSIFIABLE CONCENTRATE

FOR CONTROL OR SUPPRESSION OF LISTED DISEASES IN WHEAT, BARLEY AND OATS

COMMERCIAL

DANGER – EYE and SKIN IRRITANT

REGISTRATION NUMBER 35035 PEST CONTROL PRODUCTS ACT

ACTIVE INGREDIENTS:

Prothioconazole 125 g/L

Tebuconazole 125 g/L

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING
KEEP OUT OF REACH OF CHILDREN

NET CONTENTS: 6.5 to 324 L

Distributed by:

Northern Crop Science Inc.
Suite 300, 336 Sheppard Avenue East
North York, Ontario, M2N 3B4
1-437-880-8283

Sharda Cropchem Limited
2nd Floor, Prime Business Park
Dashrathlal Joshi Road
Vile Parle (West)
Mumbai - 400056, India

Canadian Agent:
Sharda Cropchem Limited
63 Kingsview Blvd
Etobicoke, Ontario, CA
M9R 1V1
1-844-810-5720
1-416-840-5639

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GENERAL INFORMATION

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

NCS ZIMBULUS 250 Fungicide is a broad-spectrum systemic fungicide for the control or suppression of listed diseases on wheat, barley and oats.

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. Harmful if swallowed, inhaled or absorbed through the skin. Severely irritating to the eye. Do NOT get in eyes. Avoid contact with skin, eyes, and clothing. May irritate the skin. Avoid breathing vapor or spray mist.

Wash thoroughly with soap and water after handling and before eating, drinking, or smoking. If product comes in contact with clothing, remove all contaminated clothing, wash skin with soap and water and dress in clean clothing. Launder applicator clothing separate from other laundry.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

If this pest control product is to be used on a commodity that may be exported and you require information regarding Maximum Residue Limits for an importing country, please contact Sharda Cropchem Limited: 1-844-810-5720.

PROTECTIVE CLOTHING AND EQUIPMENT: Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and boots during mixing, loading, application, clean-up and repair. In addition, workers must wear protective eyewear (goggles or a face shield) during mixing, loading, open-cab application, clean-up and repair. Coveralls and gloves are not required during application within a closed cab or cockpit.

FIRST AID:

If swallowed: Call a poison control centre 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 centre or doctor. Do not give anything by mouth to an unconscious person.

If in eyes: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

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Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION:

Treat symptomatically.

ENVIRONMENTAL PRECAUTIONS:

Toxic to birds, small wild animals, aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

DO NOT apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, ditches and wetlands), estuaries or marine habitats. DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

Tebuconazole is persistent and will carryover. It is recommended that any products containing tebuconazole not be used in areas treated with this product during the previous season.

STORAGE:

- Store this product away from food and feed.
- Keep away from fire or open flame or other sources of heat.
- Do not store at temperatures below freezing.
- If stored for 1 year or longer, shake well before using.
- Store the tightly closed container in a cool, dry, well ventilated area and out of reach of children and animals.
- Do not use or store in or around the home.
- Keep in original container during storage.
- In case of fire, leaking or damaged containers, call toll free 1-844-810-5720

DISPOSAL:

Recyclable Container Disposal: Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.

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2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial/territorial requirements.

Returnable Container: Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

Refillable Container: For disposal, this empty container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not use this container for any other purpose.

Non-Returnable Container:

1. Triple or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial/territorial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial/territorial requirements.

Disposal of Unused, Unwanted Product:

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial/territorial regulatory agency. Contact the manufacturer and the provincial/territorial regulatory agency in case of a spill, and for cleanup of spills.

Disposal of Unused Spray Solution:

If any spray solution remains in the tank after spraying is finished, it should be sprayed on the perimeter of the area just sprayed, NOT ON THE CROP, away from water supplies, ditches, and irrigation canals. Buffer zones indicated in the DIRECTIONS FOR USE must also be respected.

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****Booklet Label****

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EMULSIFIABLE CONCENTRATE

FOR CONTROL OR SUPPRESSION OF LISTED DISEASES IN WHEAT, BARLEY AND OATS

COMMERCIAL

DANGER – EYE and SKIN IRRITANT

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ACTIVE INGREDIENT:
Prothioconazole 125 g/L
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READ THE LABEL AND BOOKLET BEFORE USING
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GENERAL INFORMATION

NOTICE TO USER:

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NCS ZIMBULUS 250 Fungicide is a broad-spectrum systemic fungicide for the control or suppression of listed diseases on wheat, barley and oats.

SAFETY AND HANDLING

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. Harmful if swallowed, inhaled or absorbed through the skin. Severely irritating to the eye. Do NOT get in eyes. Avoid contact with skin, eyes, and clothing. May irritate the skin. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, or smoking. If product comes in contact with clothing, remove all contaminated clothing, wash skin with soap and water and dress in clean clothing. Launder applicator clothing separate from other laundry.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

If this pest control product is to be used on a commodity that may be exported and you require information regarding Maximum Residue Limits for an importing country, please contact Sharda Cropchem Limited: 1-844-810-5720

PROTECTIVE CLOTHING AND EQUIPMENT:

Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and boots during mixing, loading, application, clean-up and repair. In addition, workers must wear protective eyewear (goggles or a face shield) during mixing, loading, open-cab application, clean-up and repair. Coveralls and gloves are not required during application within a closed cab or cockpit.

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Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION:

Treat symptomatically.

ENVIRONMENTAL PRECAUTIONS:

Toxic to birds, small wild animals, aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE (SPRAY BUFFER ZONES).

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

DO NOT apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, ditches and wetlands), estuaries or marine habitats. DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

Tebuconazole is persistent and will carryover. It is recommended that any products containing tebuconazole not be used in areas treated with this product during the previous season.

STORAGE

- Store this product away from food or feed.
- Keep away from fire or open flame or other sources of heat.
- Do not store at temperatures below freezing.
- If stored for 1 year or longer, shake well before using.
- Store the tightly closed container in a cool, dry, well ventilated area and out of reach of children and animals.
- Do not use or store in or around the home.
- Keep in original container during storage.
- In case of fire, leaking or damaged containers, call toll free 1-844-810-5720

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DISPOSAL

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If there is no container collection site in your area, dispose of the container in accordance with provincial/territorial requirements.

Returnable Container: Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

Refillable Container: For disposal, this empty container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not use this container for any other purpose.

Non-Returnable Container:

1. Triple or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial/territorial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial/territorial requirements.

Disposal of Unused, Unwanted Product:

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial/territorial regulatory agency. Contact the manufacturer and the provincial/territorial regulatory agency in case of a spill, and for cleanup of spills.

Disposal of Unused Spray Solution:

If any spray solution remains in the tank after spraying is finished, it should be sprayed on the perimeter of the area just sprayed, **NOT ON THE CROP**, away from water supplies, ditches, and irrigation canals. Buffer zones indicated in the DIRECTIONS FOR USE must also be respected.

DIRECTIONS FOR USE

NCS ZIMBULUS 250 Fungicide is a broad-spectrum systemic fungicide for control of a wide range of diseases on wheat (spring, winter and durum), barley and oats. NCS ZIMBULUS 250 Fungicide will protect the crop from yield and quality losses due to disease.

USE DIRECTIONS			
CROP	DISEASE	RATE (mL/ha)	REMARKS
Wheat (spring, winter and durum)	Suppression of: Fusarium head blight (<i>Gibberella zeae</i> / <i>Fusarium graminearum</i>) Control of: Rust (Leaf, Stem and Stripe) (<i>Puccinia recondita</i> , <i>P. graminis</i> , <i>P. striiformis</i>) Leaf & glume blotch (<i>Septoria tritici</i> , <i>Stagonospora nodorum</i>) Tan spot (<i>Pyrenophora tritici-repentis</i>) Powdery mildew (<i>Erysiphe graminis</i>)	800	For suppression of fusarium head blight, apply NCS ZIMBULUS 250 Fungicide as a preventative spray within the time period from when at least 75% of the wheat heads on the main stem are fully emerged to when 50% of the heads on the main stem are in flower. Application at this timing will also control the listed leaf diseases. Apply by ground or aerial application equipment. For ground application, apply specified dosage in a minimum of 100 L of water per hectare. For aerial application, apply specified dosage in a minimum of 50 L of water per hectare.
Barley	Suppression of: Fusarium head blight (<i>Fusarium spp.</i>) Control of: Net blotch (<i>Pyrenophora teres</i>) Spot blotch (<i>Cochliobolus sativus</i>) Scald (<i>Rhynchosporium secalis</i>) Leaf blotch (<i>Septoria passerinii</i>) Leaf, stem and stripe rusts (<i>Puccinia hordei</i> , <i>P. graminis</i> , <i>P. striiformis</i>) Powdery mildew (<i>Erysiphe graminis</i>)	800	For suppression of fusarium head blight, apply NCS ZIMBULUS 250 Fungicide as a preventative spray within the time period when 70 to 100% of the barley main stem heads are fully emerged, to 3 days after full head emergence. Application at this timing will also control the listed leaf diseases. Apply by ground or aerial application equipment. For ground application, apply specified dosage in a minimum of 100 L of water per hectare. For aerial application, apply specified dosage in a minimum of 50 L of water per hectare.
Oats	Control of: Crown rust (<i>Puccinia coronata</i>) Stem rust (<i>Puccinia graminis</i>) Stagonospora (Septoria) Leaf blotch and black stem (<i>Stagonospora avenae</i> syn. <i>Septoria avenae</i>)	800	Apply NCS ZIMBULUS 250 Fungicide as a preventive foliar spray when the earliest disease symptoms appear on the leaves and stems. Fields should be observed closely for early disease symptoms, particularly when susceptible varieties are planted and/or under prolonged conditions favorable for disease development. Apply by ground or aerial application equipment. For ground application, apply specified dosage in a minimum of 100 L of water per hectare. For aerial application, apply specified dosage in a minimum of 50 L of water per hectare.

SEQUENTIAL APPLICATIONS IN WHEAT AND BARLEY:

NCS ZIMBULUS 250 Fungicide may be applied sequentially after an application of Folicur 432F Foliar Fungicide or Folicur 250 EW Fungicide. Please refer to respective product labels for specific use directions, pertinent recommendations, restrictions and precautions.

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Recommended Applications:

Application Timing/Crop		Minimum Interval between Applications and Maximum Seasonal Application Rates	
Stage/Product/Product Rates for single application			
Vegetative stage	Heading/Anthesis	Minimum Interval between applications	Maximum seasonal tebuconazole rate (g a.i./ha)
Folicur 432F 220-292 mL/ha (95-126 g tebuconazole/ha)	NCS ZIMBULUS 250 800 mL/ha (100 g prothioconazole + 100 g tebuconazole)	7 days	226
Folicur 250 EW 375-500 mL/ha (93.8-125 g tebuconazole/ha)	NCS ZIMBULUS 250 800 mL/ha (100 g prothioconazole + 100 g tebuconazole)	7 days	226

Resistance Management Advisory for Cereal Crops:

Repeated applications of standalone DMI fungicides should not be used on the same crop in one season against high risk pathogens, such as cereal powdery mildew, in areas of high disease pressure for that particular pathogen. Alternation with fungicides having a different mode(s) of action applied at effective rates have been shown to protect against the development of resistant forms of disease.

Tank mixes:

This product may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Sharda CropChem Limited at 1-844-810-5720 for information before applying any tank mix that is not specifically recommended on this label.

USE LIMITATIONS

- A maximum of one application of NCS ZIMBULUS 250 Fungicide may be applied per crop season.
- Applications may not be made within 36 days of harvest.
- Do not allow livestock to graze or feed green forage to livestock prior to 6 days after treatment with NCS ZIMBULUS 250 Fungicide.
- Straw cut after harvest may be fed or used for bedding.
- **DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

SPRAY BUFFER ZONES

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of application	Crop		Spray Buffer Zones (metres) Required for the Protection of:				Terrestrial Habitat:
			Freshwater Habitat of Depths:		Estuarine/Marine Habitat of Depths:		
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer	Wheat (spring, winter and durum), barley, oats		1	1	1	1	1
Aerial	Oats	Fixed wing	2	1	1	1	15
		Rotary wing	1	1	1	1	10
	Wheat (spring, winter and durum), barley	Fixed wing	10	1	1	1	15
		Rotary wing	10	1	1	1	15

When tank mixes are permitted, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

The spray buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Pesticides portion of the Canada.ca website.

Rotational Crops:

Treated areas may be replanted with any crop specified on this label and soybean as soon as practical after the last application. For all other crops, do not plant back within 120 days of last application.

PRE-HARVEST INTERVAL

Crop

PHI

Wheat (spring, winter and durum)
Barley
Oats

36 days
36 days
36 days

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Mixing Instructions:

NCS ZIMBULUS 250 Fungicide must be applied with properly calibrated, clean equipment. Prior to adding NCS ZIMBULUS 250 Fungicide to the spray tank, ensure that the spray tank is thoroughly clean.

- Add one-half of the required amount of water to the spray or mixing tank and start agitation.
- Add the required quantity of NCS ZIMBULUS 250 Fungicide to the water and complete filling with water to the required total volume.
- Maintain agitation throughout mixing and spraying.

APPLICATION INSTRUCTIONS

GROUND APPLICATION

Field sprayer application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

1. Use well-maintained and calibrated conventional spray equipment, which provides adequate and uniform coverage.
2. Apply NCS ZIMBULUS 250 Fungicide in a minimum of 100 L water/ha.
3. Spray screens should be no finer than 50 mesh.
4. Ensure that the by-pass line discharges at the bottom of the tank to minimize foaming.
5. Maintain pressure at no less than 275 kPa to ensure good foliage penetration and coverage.
6. Provincial buffer zones that are greater than the buffer zones indicated in the DIRECTIONS FOR USE should be respected.
7. If spray mixture remains in the tank overnight, or for long periods during the day, agitate thoroughly prior to application.

AERIAL APPLICATION

Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment. If you have questions, call 1-844-810-5720 or obtain technical advice from the distributor or your provincial/territorial agricultural representative.

DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply when wind speed is greater than 16 km/h at flying height at the site of application. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Reduce drift caused by turbulent wingtip vortices. Nozzle distribution along the spray boom length MUST NOT exceed 65% of the wing- or rotorspan.

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Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label.

Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

Apply NCS ZIMBULUS 250 Fungicide in a minimum of 50 L of water/ha.

To ensure proper coverage and distribution and to minimize drift, check to see that swath width and droplet size are adequate, and that wind velocities are low.

Use mechanical flaggers only.

USE PRECAUTIONS:

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage.

Apply only under conditions of good practice specific to aerial application as outlined in the *National Aerial Pesticide Application Manual*, developed by the Federal/Provincial/Territorial committee on Pest management and Pesticides.

OPERATOR PRECAUTIONS:

1. **DO NOT** allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.
2. It is desirable that the pilot has communication capabilities at each treatment site at the time of application.
3. The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label.
4. All personnel on the job site must wash hands and face thoroughly before eating and drinking.
5. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.
6. Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-844-810-5720 or obtain technical advice from the distributor or your provincial agricultural representative.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, NCS ZIMBULUS 250 Fungicide contains two Group 3 fungicides. Any fungal population may contain individuals naturally resistant to NCS ZIMBULUS 250 Fungicide 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. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

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To delay fungicide resistance:

- Where possible, rotate the use of NCS ZIMBULUS 250 Fungicide or other Group 3 fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicides from a different group that is effective on the target pathogen when such use is permitted.
- Fungicide use should be based on an integrated pest management (IPM) program that includes scouting, historical information related to pesticide use and crop rotation and considers host plant resistance, impact of environmental conditions on disease development, diseases thresholds, as well as cultural, biological, and other chemical control practices.
- Where possible, make use of predictive disease models to effectively time fungicide applications.
- Monitor treated fungal populations for resistance development. Notify Sharda CropChem Limited if reduced sensitivity of the pathogen to NCS ZIMBULUS 250 Fungicide is suspected.
- If disease continues to progress after treatment with this product, do not increase the use rate. Discontinue use of this product and switch to another fungicide with a different site of action, if available.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.
- For further information and to report suspected resistance, contact a Sharda Cropchem Limited representative at 1-844-810-5720.