

SUBDUE MAXX®

FUNGICIDE

Emulsifiable Concentrate

COMMERCIAL

For control of certain diseases in ornamental plants, greenhouse lettuce, greenhouse pepper, greenhouse tomato, conifers, golf course turf and turf for golf course and sod production.

For Suppression of Sudden Oak Death caused by *Phytophthora Ramorum* on those ornamentals deemed susceptible to this disease by the Canadian Food Inspection Agency (CFIA). For a completed list of the ornamental species, refer to the publication "List of Plants Regulated for *Phytophthora Ramorum* (Sudden Oak Death)," which is updated regularly. www.inspection.gc.ca/english/plaveg/protect/dir/sodspe.shtml.

ACTIVE INGREDIENT:

Metalaxyl-M and S-isomer 240 g/L

**READ THE LABEL AND PAMPHLET BEFORE USING
KEEP OUT OF REACH OF CHILDREN**

CAUTION: EYE IRRITANT

REGISTRATION NO. **27055**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **1 L to 37.8 L**

Syngenta Canada Inc.
140 Research Lane, Research Park
Guelph, ON N1G 4Z3
Telephone: 1-877-964-3682

Label

1.0 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.

2.0 FIRST AID

IN CASE OF POISONING, contact a physician or a poison control centre **IMMEDIATELY**. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

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 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.

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

3.0 TOXICOLOGICAL INFORMATION

Treat symptomatically.

4.0 PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

Harmful if swallowed. Avoid inhalation of spray mist. Avoid contact with skin and eyes. Avoid contamination of food and feed and domestic or irrigation water supplies, lakes, streams and ponds.

SUBDUE MAXX[®] Fungicide is irritating to skin and eyes. Do not get in eyes, on skin or on clothing and avoid breathing spray.

Do not apply in such a way that this product will contact workers or other persons, either directly or through drift.

RESTRICTED ENTRY INTERVAL (REI): With the exception of sod production, do not re-enter treated turf areas (including golf course fairways, tees, greens and nearby approaches) until

treated surfaces are dry. For sod farms and all other crops (unless referred to specifically elsewhere), do not re-enter treated areas for 12 hours.

Do not enter or allow worker entry for 24 hours following application to ornamentals and conifers. Outdoor nursery conifers are not to be transplanted by hand for 12 days following application and greenhouse nursery conifers are not to be transplanted by hand for 25 days following application.

Workers shall be given oral warning of the re-entry interval.

5.0 PERSONAL PROTECTIVE EQUIPMENT (PPE)

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, protective eyewear (goggles or face shield), socks and shoes during mixing, loading, application, clean-up and repair. Gloves and protective eyewear are not required during application within a closed cab.

Change clothing after use. Wash with soap and water after use.

Remove contaminated clothing immediately after use. Store and wash contaminated clothing separately from household laundry before reuse. Wash thoroughly with soap and water after handling. Handle and apply only as recommended on this label. Wash gloves thoroughly with soap and water before removing them during any operation.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Wear freshly laundered clothes daily.

Wash hands thoroughly with soap and water after using this product and before eating, drinking or smoking.

Do not eat, drink or smoke while mixing or during application.

6.0 ENVIRONMENTAL PRECAUTIONS

TOXIC to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.

Toxic to small wild mammals.

This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

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 filter strip between the treated area and the edge of the water body.

7.0 STORAGE

Store this product away from food or feed. Do not use or store near an open flame.

8.0 DISPOSAL

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 clean-up of spills.

For recyclable containers:

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.
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.

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING,
CALL 1-800-327-8633 (FASTMED)***

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Pamphlet

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Do not enter or allow worker entry for 24 hours following application to ornamentals and conifers. Outdoor nursery conifers are not to be transplanted by hand for 12 days following application and greenhouse nursery conifers are not to be transplanted by hand for 25 days following application.

Workers shall be given oral warning of the re-entry interval.

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Change clothing after use. Wash with soap and water after use.

Remove contaminated clothing immediately after use. Store and wash contaminated clothing separately from household laundry before reuse. Wash thoroughly with soap and water after handling. Handle and apply only as recommended on this label. Wash gloves thoroughly with soap and water before removing them during any operation.

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Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body.

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

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9.0 PRODUCT INFORMATION

SUBDUE MAXX Fungicide is a systemic fungicide for use on ornamentals grown in nurseries, conifers grown in nurseries, golf course turf and turf for golf course and sod production, lettuce, pepper and tomato grown in greenhouses. SUBDUE MAXX Fungicide is readily absorbed through the roots of plants providing protection against attack from diseases caused by *Pythium* and *Phytophthora* by working from inside the plants under all weather conditions.

SUBDUE MAXX must be applied preventatively, before disease symptoms are evident, to be effective.

9.1 Use Limitations

Experience has shown that strains of fungus resistant to Metalaxyl-M and S-isomer may develop. Failure to control the disease will result in crop damage and/or yield losses. If high levels of disease appear, consult the government specialist immediately. Do not use SUBDUE MAXX Fungicide for control of downy mildew diseases on the crops listed on this label. Use only as a soil application except for disease control in turf and if otherwise specified under CROP USE DIRECTIONS.

10.0 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 contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

DO NOT allow releases, effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

10.1 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 and Biological Engineers (ASABE S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

DO NOT apply by air.

10.1.1 Mixing Instructions

SUBDUE MAXX Fungicide Only

Fill the spray tank 1/2 - 3/4 full with water, add the proper amount of SUBDUE MAXX Fungicide. Then add the rest of the water. Provide sufficient agitation during mixing and application to maintain a uniform emulsion.

For banded applications, calculate the amount of SUBDUE MAXX Fungicide needed as follows:

$$\frac{\text{band width in cm}}{\text{row width in cm}} \times \text{broadcast rate per hectare} = \text{amount needed per hectare}$$

10.1.2 Tank Mixtures - Pesticides

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 Syngenta Canada Inc. at 1-87-SYNGENTA / 1-877-964-3682 for information before applying any tank mix that is not specifically recommended on this label.

Syngenta Canada Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) of all potential tank mixes under all environmental conditions or for all crop varieties. Tank mixes that are not specifically listed on this label should be tested on a small area first, under local conditions and using standard practices, to confirm the tank mix is suitable for widespread application.

To determine the physical compatibility of this product with other products, use a jar test.

Always read and follow label directions including WALES mixing order

10.1.3 Equipment Clean-Up

Clean Up Before Spraying:

- Prior to using SUBDUE MAXX Fungicide, ensure that the spray tank, lines and filter are thoroughly clean.

Clean Up After Spraying:

- Thoroughly clean application equipment immediately after spraying. To avoid subsequent injury to other crops, immediately after spraying and before spraying other crops, thoroughly remove all traces of SUBDUE MAXX Fungicide from mixing and spraying equipment.
- When using tank mixes, consult the tank-mix partner label for additional cleanup instructions.
- The following recommendations are provided:
 1. Drain and flush tank walls, boom and all hoses for ten minutes with a clean water/detergent mixture. Rinse with clean water. **Do not** clean the sprayer near desirable vegetation, wells or other water sources.
 2. Remove all nozzles and screens and wash separately.
 3. Dispose of all rinsate in accordance with provincial regulations.

10.2 Spray Buffer Zones

A spray buffer zone is NOT required for:

- uses with hand-held application equipment permitted on this label,
- inter-row hooded sprayer,
- soil drench

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.

Methods of application	Crop	Spray Buffer Zones (metres) Required for the Protection of:	
		Freshwater Habitat of Depths:	Terrestrial habitat
		Less than 1 m	
Field sprayer	Turf	1	1

For tank mixes, 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 (ASABE S572.1) category indicated on the labels for those tank mix partners.

Avoid spray overlap, or crop injury may result.

10.3 Rotational Crops

Do not plant any crop which is not registered for use with Metalaxyl-M and S-isomer in Metalaxyl-M and S-isomer treated soil for a period of 12 months.

11.0 CROP USE DIRECTIONS

11.1 Ornamentals Grown in Outdoor or Greenhouse Nurseries

Use SUBDUE MAXX Fungicide on container, bench, or bed-grown ornamentals in greenhouses or outdoor nurseries, for control of damping-off, and root and stem rot diseases caused by *Pythium* and *Phytophthora*.

<p>Bedding Plants Ageratum, Algerian ivy, Artemisia, Aster, Begonia, Caladium, Carnation, Chrysanthemum, Coleus, English Ivy, Daisy (Shasta), Foxglove, Gaillardia, Geranium, Impatiens, Marigold, Pansy, Petunia, Phlox, Pinks, Primrose, Prostrate Rosemary, Salvia, Snapdragon, Verbena, Vinca, Zinnia, and other bedding plants not specifically listed</p>	<p>DRENCH at Seeding and Transplanting: Mix 24 mL with 1000 L of water and apply 5 L of solution per m².</p>
<p>Flowers Gloxinia</p>	<p>DRENCH at Transplanting: Mix 40 mL with 1000 L of water and apply 5 L of solution per m². May cause phytotoxicity.</p>
<p>NOTES:</p> <p>Ensure that the growing media of container-grown plants is moist prior to a drench application.</p> <p>Do not make more than 2 applications per crop cycle (maximum 3 crop cycles per year).</p> <p>If soil surface applications are made indoors, irrigate within 1-2 days to ensure product reaches the root zone.</p> <p>If soil surface applications are made to plants grown in an outdoor nursery or landscape, irrigate with at least 1.5 cm of water if rainfall does not occur within 7 days.</p>	

11.2 Conifers Grown in Outdoor or Greenhouse Nurseries

SUBDUE MAXX Fungicide provides control of *Phytophthora* root rot of conifers.

<p>Conifers in Outdoor or Greenhouse Nurseries</p>	
<p>Seedbeds and Plug-Plantings 2-0 Bare Root Transplants</p>	<p>Apply 1.2 L SUBDUE MAXX Fungicide in at least 200 L of water per hectare in the spring.</p> <p>For small areas mix 12 mL product/100 L water and apply 100 L solution/100 m².</p>
<p>NOTES:</p> <p>Do not make more than 2 applications per crop cycle (maximum 3 crop cycles per year).</p>	

Outdoor nursery conifers are not to be transplanted by hand for 12 days following application and greenhouse nursery conifers are not to be transplanted by hand for 25 days following application.

If soil surface applications are made indoors, irrigate within 1-2 days to ensure product reaches the root zone.

If soil surface applications are made to plants grown in an outdoor nursery, irrigate with at least 1.5 cm of water if rainfall does not occur within 7 days.

11.3 Turf on Golf Course: greens, tee off and nearby approaches

SUBDUE MAXX Fungicide provides control of *Pythium* blight and *Pythium* damping-off in golf course turf.

Established Turf <i>Pythium</i> Blight	Apply as a preventative treatment at a rate of 16 to 32 mL SUBDUE MAXX Fungicide in 10 to 20 L of water per 100 square metres. Re-treat at 10 - 21 day intervals if required. During periods of prolonged conditions favourable for disease development use 16 to 32 mL on a 7-14-day schedule.
Newly Seeded Areas <i>Pythium</i> Damping-Off <i>Pythium</i> Blight	Apply 16 to 32 mL SUBDUE MAXX Fungicide in 20 - 40 L of water per 100 square metres immediately after seeding. Irrigate with 1-2 cm of water. Re-treat at 7 - 14 day intervals if conditions remain favourable for disease. Note: For long-term control of <i>Pythium</i> when using seed treated with the active ingredient contained in SUBDUE MAXX Fungicide, make an application of SUBDUE MAXX Fungicide 7-10 days after seeding.
NOTES: Use the lower rate for the shortest interval listed and the higher rate for the longest interval. Under severe disease conditions, use the highest rate and shortest interval specified. DO NOT make more than 3 applications of SUBDUE MAXX Fungicide per season. For <i>Pythium</i> control, apply another registered fungicide which does not contain Metalaxyl-M and S-isomer at least once per season.	

12.0 MINOR USES

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Syngenta Canada Inc. under the User Requested Minor Use Label Expansion program. For these uses, Syngenta Canada Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

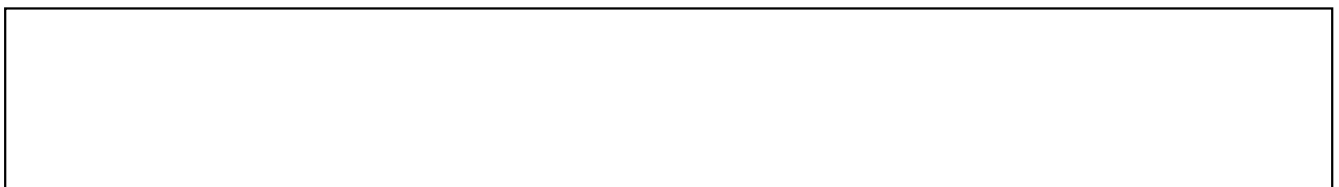
12.1 Turf for Golf Course and Sod Production - For Control of *Pythium* Root Rot

SUBDUE MAXX Fungicide provides control of *Pythium* root rot on turf for golf course and sod production. Not for use on other institutional and commercial lawns, sports fields, parks, municipal grounds and cemeteries.

Site	Pest	Application rates/Comments
Golf course (greens, tee off and nearby approaches) and Sod production	<i>Pythium</i> root rot	Apply as a drench at a rate of 1.6 – 3.2 L/ha in 1000 – 2000 L water/ha. Apply when disease symptoms first occur. Do not make more than one application per season.

12.2 Woody Ornamental Plants (including Conifers) Grown Outdoors (Field, Nurseries or Landscapes) and in the Greenhouse – For Suppression of *Phytophthora ramorum*

SUBDUE MAXX Fungicide provides suppression of *Phytophthora ramorum* on woody ornamentals.



Site	Pest	Application rates/Comments
<p>Woody Ornamentals (greenhouse, container, field grown, nurseries, landscape plantings) Apply only to susceptible woody ornamental species indicated on the CFIA website shown on the front panel.</p>	<p><i>Phytophthora ramorum</i> - Sudden oak death</p>	<p>Apply SUBDUE MAXX prior to infection by <i>Phytophthora ramorum</i>. Preventive applications have been shown to be more efficacious than post-infection applications with <i>Phytophthora ramorum</i>.</p> <p>Field grown stock and landscapes Foliar application: Mix 7.8-15.6 mL of product in 100 L of water and spray to runoff.</p> <p>For indoor and outdoor container grown ornamentals <u>Drench at seedling:</u> Mix 24 mL with 1000 L of water and apply 5 L of solution per m². <u>Drench at transplanting:</u> Mix 40 mL with 1000 L of water and apply 5 L of solution per m². May cause phytotoxicity.</p> <p>Ensure that the growing media of container plants is moist prior to a drench application. If soil surface applications are made to plants grown in an outdoor nursery or landscape, irrigate with at least 1.5 cm of water if rainfall does not occur within 7 days.</p> <p>Outdoor nursery conifers are not to be transplanted by hand for 12 days following application and greenhouse nursery conifers are not to be transplanted by hand for 25 days following application.</p> <p>Do not make more than 3 applications per season.</p> <p>Repeat if necessary at 2-3 month intervals.</p> <p>Use in a rotational program with other products labelled for <i>Phytophthora</i> control in ornamental plants as a strategy for resistance management.</p> <p>SUBDUE MAXX has been tested on a large number of woody ornamental plants, however, not all species have been tested for phytotoxicity. It is recommended that the user test a small sample before applying to the entire crop.</p>

12.3 Greenhouse Lettuce

Site	Pest	Application rates/Comments
Greenhouse Lettuce	Pythium Root Rot (<i>Pythium aphanidermatum</i>)	<p>Apply as a soil drench after the cotyledons have fully expanded to the 2nd true leaf stage. Make one drench application of SUBDUE MAXX to the growing media at least one day before transplanting.</p> <p>One application per planting cycle. Preharvest Interval (PHI): 21 days</p> <p>Mix 1.5 to 2.5 mL of product in 10 L of water. Apply 50-200 mL of the SUBDUE MAXX mixture per m² once as a drench to the growing media at the base of seedlings.</p> <p>Ensure that the growing media of container-grown plants is moist prior to a drench application of SUBDUE MAXX Fungicide.</p> <p>Irrigate within 1-2 days to ensure product reaches the root zone.</p> <p>Use the higher rate under conditions of high disease pressures, or when there is a history of high Pythium disease pressures in the greenhouse.</p> <p>DO NOT apply SUBDUE MAXX Fungicide to the foliage. DO NOT apply to lettuce intended for transplant out to fields.</p> <p>Plant safety has been found to be acceptable for many plants, however, not all possible plant species and varieties have been tested under all conditions. It is recommended to test SUBDUE MAXX Fungicide on a small portion of the crop to ensure that a phytotoxic response will not occur.</p>

12.4 Greenhouse Pepper		
Site	Pest	Application rates/Comments
Greenhouse Pepper	Pythium root rot (<i>Pythium aphanidermatum</i>)	<p>Apply as a soil drench immediately after transplanting or when Pythium root rot is present.</p> <p>Mix 1.5 to 2.5 mL of product in 10 L of water. Application Volume: Apply 250 mL of the Subdue MAXX mixture as a drench to the growing media at the base of each plant.</p> <p>Ensure that the growing media of container-grown plants is moist prior to a drench application of Subdue MAXX Fungicide. Irrigate within 1-2 days to ensure product reaches the root zone.</p> <p>Use the higher rate under conditions of high disease pressures, or when there is a history of high Pythium disease pressures in the greenhouse.</p> <p>One application per planting cycle.</p> <p>Preharvest Interval (PHI): 2 days</p> <p>DO NOT apply Subdue MAXX Fungicide to the foliage. DO NOT use in the propagation house. DO NOT apply to peppers intended for transplant out to fields.</p>

12.5 Greenhouse Tomato		
Site	Pest	Application rates/Comments
Greenhouse Tomato	Pythium root rot (<i>Pythium</i> spp.)	<p>Apply as a soil drench 7-14 days after transplanting or when Pythium root rot is present.</p> <p>Mix 1.5 to 2.5 mL of product in 10 L of water.</p> <p>Ensure that the growing media of container-grown plants is moist prior to a drench application of Subdue MAXX Fungicide. Irrigate within 1-2 days to ensure product reaches the root zone.</p> <p>Use the higher rate under conditions of high disease pressures, or when there is a history of high Pythium disease pressures in the greenhouse.</p> <p>Application Volume: Apply 250 mL of the Subdue MAXX mixture as a drench to the growing media at the base of each plant.</p> <p>One application per planting cycle.</p> <p>Preharvest Interval (PHI): 1 day</p> <p>DO NOT apply Subdue MAXX Fungicide to the foliage. DO NOT use in the propagation house. DO NOT apply to tomatoes intended for transplant out to fields.</p> <p>It is recommended to test SUBDUE MAXX Fungicide alone and with any mixtures on a small portion of the crop to ensure that a phytotoxic response will not occur as a result of application.</p>

13.0 RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that SUBDUE MAXX Fungicide contains a Group 4 fungicide. Any fungal population may contain individuals naturally resistant to Metalaxyl-M and S-isomer and other Group 4 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.

To delay fungicide resistance:

Use tank mixtures with fungicide from a different group that is effective on the target pathogen when such use is permitted. Where possible, rotate the use of SUBDUE MAXX Fungicide or other Group 4 fungicides with different groups that control the same pathogens.

Fungicide use should be based on an integrated disease management 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, 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.

Monitor treated fungal populations for resistance development. Notify Syngenta if reduced sensitivity of the pathogen to SUBDUE MAXX 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 target 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 or to report suspected resistance, contact company representatives at 1-87-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.

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