

GROUP	40	45	FUNGICIDE
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ZAMPRO™ FUNGICIDE

Fungicide for use on brassica leafy vegetables, bulb vegetables, cucurbit vegetables, fruiting vegetables, grapes, hops, leafy vegetables and potatoes

SUSPENSION

AGRICULTURAL

GUARANTEE: Ametoctradin..... 300 g/L
Dimethomorph.....225 g/L

Contains 1,2-benzisothiazolin-3-one at 0.0045% and
2-methyl-4-isothiazolin-3-one at 0.0045% as preservatives

REGISTRATION NO. 30321

PEST CONTROL PRODUCTS ACT

Warning, contains the allergen soy

NET CONTENTS: 0.01 L to 1000 L

KEEP OUT OF REACH OF CHILDREN
READ THE LABEL BEFORE USING THIS PRODUCT



WARNING POISON

IN CASE OF EMERGENCY ENDANGERING LIFE OR PROPERTY
INVOLVING THIS PRODUCT, CALL DAY OR NIGHT,
1-800-454-2673

BASF Canada Inc.
100 Milverton Drive, 5th Floor
Mississauga, Ontario
L5R 4H1
1-877-371-2273

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GENERAL INFORMATION

This package contains **ZAMPRO Fungicide**, a 525 g/L SC (Suspension Concentrate) with two active ingredients ametoctradin and dimethomorph. The active ingredients in **ZAMPRO Fungicide** belong to two classes of fungicides having different modes of action, a beneficial feature to improve disease control and delay resistance. To maximize disease control, only apply **ZAMPRO Fungicide** in a preventative spray program and use in a rotation program with other fungicides having different modes of action.

PRECAUTIONS

1. **KEEP OUT OF REACH OF CHILDREN.**
2. During all activities, worker must wear long pants, long-sleeved shirt and socks and shoes. During mixing, loading, clean-up and repair activities, workers must also wear chemical resistant gloves.
3. Harmful or fatal if swallowed.
4. Wash hands before eating, drinking, smoking or using the toilet. Change out of work clothes and take a bath or shower after handling or spraying the product. Launder protective clothing before re-use.
5. For potatoes and fruiting vegetables, do not enter treated areas within 12 hours after application. For all other crops, see the specific Application Rate Table for the restricted entry interval.
6. Clean spray equipment thoroughly after use.
7. 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.
8. If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at www.croplife.ca.

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 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.

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

TOXICOLOGICAL INFORMATION

There is no specific antidote. Treat symptomatically.

ENVIRONMENTAL HAZARDS

TOXIC to aquatic organisms. Observe buffer zones specified under DIRECTIONS FOR USE.

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.

STORAGE

1. Store the leftover product in original tightly closed container. Protect from freezing.
2. Do not ship or store the product near food, feed, seed and fertilizers.
3. Store the product in cool, dry, locked, well-ventilated area without floor drain.

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 dealer/distributor 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. Follow provincial 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 requirements.

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

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. The user assumes the risk to persons or property that arises from any such use of this product.

DIRECTIONS FOR USE

Apply recommended rates of **ZAMPRO Fungicide** as instructed in the following crop specific application rate and timing table. Apply **ZAMPRO Fungicide** with ground or aerial equipment. Equipment should be checked frequently for proper calibration.

The use of additives or adjuvant may improve the performance of **ZAMPRO Fungicide**. However, all varieties and cultivars have not been tested with possible tank mixture combinations. Local conditions can also influence crop tolerance and may not match those under which BASF has conducted testing. Physical incompatibility, reduced disease control or crop injury may result from mixing **ZAMPRO Fungicide** with other products. Therefore, before using any tank mix (fungicides, insecticides, liquid fertilizers, biological control products, adjuvant and additives) test a small portion of the crop to be treated to ensure that a phytotoxic response will not occur.

NOT FOR USE IN GREENHOUSES.

Brassica Leafy Vegetables Application Rate Table (Ground and Aerial Application)

Crop	Disease	Application Rate (L/ha)	PHI (Days)	Maximum Number of Applications per Season
<u>Brassica leafy vegetables:</u> Broccoli Broccoli, Chinese (gai lon) Broccoli raab (rapini) Brussel sprouts Cabbage Cabbage, Chinese (bok choy) Cabbage, Chinese (napa) Cabbage, Chinese mustard (gai choy) Cauliflower Cavalo broccoli Collards Kale Kohlrabi Mizuna Mustard greens Mustard spinach Rape greens	Downy mildew (<i>Peronospora parasitica</i>)	0.8 - 1.0	0	3

In order to reduce the risk of the development of fungicide resistance **ZAMPRO Fungicide** must be used in rotation with other fungicides having a different mode of action active against downy mildew.

Begin applications of **ZAMPRO Fungicide** prior to disease development and continue on a 7-day interval. Use the higher rate when disease pressure is high. The addition of a spreading/penetrating adjuvant is recommended, at a maximum rate of 0.125% v/v, to improve disease control performance. Non-ionic surfactants (e.g. Agral 90, Induce) are NOT recommended.

Consult local downy mildew advisory system recommendations to determine the predicted levels of disease pressure and recommended spray interval. Apply spray to obtain thorough and complete plant coverage.

Resistance Management

Do not make more than two sequential applications of **ZAMPRO Fungicide** before alternating to another effective fungicide with a mode of action different from **ZAMPRO Fungicide** for at least one application.

Do not enter treated areas for hand harvesting or irrigation within 6 days after application, or for scouting within 4 days after application. For all other activities in Brassica vegetables, do not enter treated areas within 12 hours after application.

DO NOT use less than 200 litres of water per hectare for ground applications and 50 litres per hectare for aerial applications.

Bulb Vegetable Application Rate Table (Ground and Aerial Application)

Crop	Disease	Application Rate (L/ha)	PHI (Days)	Maximum Number of Applications per Season
<u>Bulb vegetables:</u> Garlic Garlic, great headed Leek Onion, dry bulb Onion, green Onion, Welch Shallot	Downy mildew (<i>Peronospora destructor</i>)	1.0	0	3

In order to reduce the risk of the development of fungicide resistance **ZAMPRO Fungicide** must be used in rotation with other fungicides having a different mode of action against downy mildew.

Begin applications of **ZAMPRO Fungicide** prior to disease development and continue on a 5-7 day interval. Use the shorter interval when disease pressure is high. The addition of a spreading/penetrating adjuvant is recommended to improve disease control performance.

Consult local downy mildew advisory system recommendations to determine the predicted levels of disease pressure and recommended spray interval. Apply spray to obtain thorough and complete plant coverage.

Resistance Management

Do not make more than two sequential applications of **ZAMPRO Fungicide** before alternating to another effective fungicide with a mode of action different from **ZAMPRO Fungicide** for at least one application.

Do not enter treated areas for hand harvesting or thinning within 1 day after application. For all other activities in bulb vegetables, do not enter treated areas within 12 hours after application.

DO NOT use less than 200 litres of water per hectare for ground applications and 50 litres per hectare for aerial applications.

Cucurbit Vegetable Application Rate Table (Ground and Aerial Application)

Crop	Disease	Application Rate (L/ha)	PHI (Days)	Maximum Number of Applications per Season
<u>Cucurbit vegetables - Includes all types and hybrids of:</u> Cantaloupe Chinese waxgourd Citron melon Cucumber Edible gourds Gherkin Muskmelon Pumpkin Summer squash Watermelon Winter squash Zucchini <i>Momordica</i> spp. (such as Balsam apple Balsam pear Bitter melon Chinese cucumber)	Downy mildew (<i>Pseudoperonospora cubensis</i>)	0.8 - 1.0	1	3
	Phytophthora blight (<i>Phytophthora capsici</i>)	1.0		

In order to reduce the risk of the development of fungicide resistance **ZAMPRO Fungicide** must be used in rotation with other fungicides active against downy mildew and phytophthora blight. The number of **ZAMPRO Fungicide** applications or of any other product containing group 40 fungicides cannot exceed 50% of the total number of applications intended for downy mildew control.

Begin applications of **ZAMPRO Fungicide** prior to disease development and continue on a 5-7 day interval. Use the higher rate and shorter interval when disease pressure is high. The addition of a spreading/penetrating adjuvant is recommended to improve disease control performance.

Consult local downy mildew or blight advisory system recommendations to determine the predicted levels of disease pressure and recommended spray interval. Apply spray to obtain thorough and complete plant coverage.

Resistance Management

Do not make more than two sequential applications of **ZAMPRO Fungicide** before alternating to another effective fungicide with a mode of action different from **ZAMPRO Fungicide** for at least one application.

Do not enter treated areas for hand harvesting, pruning or thinning within 1 day after application. For all other activities in cucurbit vegetables, do not enter treated areas within 12 hours after application.

DO NOT use less than 200 litres of water per hectare for ground applications and 50 litres per hectare for aerial applications.

Fruiting Vegetables Application Rate Table (Ground and Aerial Application)

Crop	Disease	Application Rate (L/ha)	PHI (Days)	Maximum Number of Applications per Season
<u>Fruiting vegetable group:</u> Tomato Eggplant Ground cherry (<i>Physalis spp</i>) Pepino Pepper (all varieties) Tomatillo	Phytophthora blight (<i>Phytophthora capsici</i>) - suppression Late blight (<i>Phytophthora infestans</i>)	1.0	4	3

In order to reduce the risk of the development of fungicide resistance **ZAMPRO Fungicide** must be used in rotation with other fungicides active against Phytophthora blight or Late Blight.

Begin applications of **ZAMPRO Fungicide** prior to disease development and continue on a 5-7 day interval. Use the shorter interval when disease pressure is high. The addition of a spreading/penetrating adjuvant is recommended to improve disease control performance.

Consult local blight advisory system recommendations to determine the predicted levels of disease pressure and recommended spray interval. Apply spray to obtain thorough and complete plant coverage.

Resistance Management

Do not make more than two sequential applications of **ZAMPRO Fungicide** before alternating to another effective fungicide with a mode of action different from **ZAMPRO Fungicide** for at least one application.

DO NOT use less than 200 litres of water per hectare for ground applications and 50 litres per hectare for aerial applications.

Grape Application Rate Table (Ground Application)

Crop	Disease	Application Rate (L/ha)	PHI (Days)	Maximum Number of Applications per Season
Grape	Downy mildew (<i>Plasmopara viticola</i>)	0.8-1.0	14	4

In order to reduce the risk of the development of fungicide resistance **ZAMPRO Fungicide** must be used in rotation with other fungicides active against downy mildew.

Begin applications of **ZAMPRO Fungicide** prior to disease development and continue on a 7-10 day interval. Use the higher rate and shorter interval when disease pressure is high. The addition of a spreading/penetrating adjuvant is recommended to improve disease control performance.

Consult local downy mildew advisory system recommendations to determine the predicted levels of disease pressure and recommended spray interval. Apply spray to obtain thorough and complete plant coverage.

Resistance Management

Do not make more than two sequential applications of **ZAMPRO Fungicide** before alternating to another effective fungicide with a mode of action different from **ZAMPRO Fungicide** for at least one application.

Do not enter treated areas for cane turning within 20 days after application, or for training, thinning or hand pruning within 12 days after application. For all other activities in grapes, do not enter treated areas within 12 hours after application.

DO NOT use less than 200 litres of water per hectare.

Hops Application Rate Table (Ground Application)

Crop	Disease	Application Rate (L/ha)	PHI (Days)	Maximum Number of Applications per Season
Hops	Downy mildew (<i>Pseudoperonospora humuli</i>)	0.8-1.0	7	3

In order to reduce the risk of the development of fungicide resistance **ZAMPRO Fungicide** must be used in rotation with other fungicides active against downy mildew.

Begin applications of **ZAMPRO Fungicide** prior to disease development and continue on a 10 day interval. Use the higher rate when disease pressure is high. The addition of a spreading/penetrating adjuvant is recommended to improve disease control performance.

Consult a local downy mildew advisory system if available for recommendations to determine the predicted levels of disease pressure and recommended spray interval. Apply spray to obtain thorough and complete plant coverage.

Resistance Management

Do not make more than two sequential applications of **ZAMPRO Fungicide** before alternating to another effective fungicide with a mode of action different from **ZAMPRO Fungicide** for at least one application.

Do not enter treated areas for hand harvesting, training or stripping within 18 days after application. For all other activities in hops, do not enter treated areas within 12 hours after application.

DO NOT use less than 200 litres of water per hectare.

Leafy Vegetables Application Rate Table (Ground and Aerial Application)

Crop	Disease	Application Rate (L/ha)	PHI (Days)	Maximum Number of Applications per Season
<u>Leafy vegetables:</u> Celtuce Cress (upland) Endive Lettuce (head and leaf) Radicchio (red chicory)	Downy mildew (<i>Bremia/actuae</i>)	1.0	0	3

In order to reduce the risk of the development of fungicide resistance **ZAMPRO Fungicide** must be used in rotation with other fungicides active against downy mildew.

Begin applications of **ZAMPRO Fungicide** prior to disease development and continue on a 5-7 day interval. Use the shorter interval when disease pressure is high.

Consult a local downy mildew advisory system if available for recommendations to determine the predicted levels of disease pressure and recommended spray interval. Apply spray to obtain thorough and complete plant coverage.

Resistance Management

Do not make more than two sequential applications of **ZAMPRO Fungicide** before alternating to another effective fungicide with a mode of action different from **ZAMPRO Fungicide** for at least one application.

Do not enter treated areas for hand harvesting within 1 day after application. For all other activities in leafy vegetables, do not enter treated areas within 12 hours after application.

DO NOT use less than 200 litres of water per hectare for ground applications and 50 litres per hectare for aerial applications.

DO NOT apply with adjuvant.

Potato Application Rate Table (Ground and Aerial Application)

Crop	Disease	Application Rate (L/ha)	PHI (Days)	Maximum Number of Applications per season
Potato	Late blight, (<i>Phytophthora infestans</i>)	0.8 -1.0	4	3
	Tuber blight* (<i>Phytophthora infestans</i>)	1.0		

In order to reduce the risk of the development of fungicide resistance **ZAMPRO Fungicide** must be used in rotation with other fungicides active against blights.

Begin applications of **ZAMPRO Fungicide** prior to disease development and continue on a 5-10 day interval. Use the higher rate and shorter interval when disease pressure is high. The addition of a spreading/penetrating adjuvant is recommended to improve disease control performance.

Consult local late blight advisory system recommendations to determine the predicted levels of disease pressure and recommended spray interval. Apply spray to obtain thorough and complete plant coverage.

*When used in accordance to the label recommendations, **ZAMPRO Fungicide** also reduces tuber blight when applied immediately prior to or after vine kill.

Resistance Management

Do not make more than two sequential applications of **ZAMPRO Fungicide** before alternating to another effective fungicide with a mode of action different from **ZAMPRO Fungicide** for at least one application.

DO NOT use less than 200 litres of water per hectare for ground applications and 50 litres per hectare for aerial applications.

RESTRICTIONS

Plant Back Interval: A plant back restriction of 30 days is required for all crops not on the label.

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.

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) medium classification. Boom height must be 60 cm or less above the crop or ground.

Airblast application

DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. **DO NOT** apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

Aerial application

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) medium classification. To reduce drift caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing- or rotor-span.

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. Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. 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. Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

Aerial 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.

Aerial Operator Precautions

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted. It is desirable that the pilot have communication capabilities at each treatment site at the time of application. 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. All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-877-371-BASF (2273) or obtain technical advice from the distributor or your provincial agricultural representative.

Buffer zones

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held or backpack sprayer and spot treatment.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of 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		Buffer Zones (metres) Required for the Protection of:			
			Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:	
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m
Field sprayer	Brassica leafy vegetables, bulb vegetables, leafy vegetables, cucurbit vegetables, fruiting vegetables, potatoes		1	1	1	1
Airblast	Grapes, hops	Early growth stage	10	4	3	1
		Late growth stage	5	2	2	1
Aerial	Brassica leafy vegetables, bulb vegetables, leafy vegetables, cucurbit vegetables, fruiting vegetables, potatoes	Fixed or rotary wing	10	1	1	1

For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) 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.

RESISTANCE-MANAGEMENT RECOMMENDATIONS

It is known that plant diseases can develop resistance when exposed to one type of product or even products of similar chemistry. Good management practices will minimize the risk of resistance development. Use cultural practices to minimize the sources of disease as well as early preventive applications of fungicides. Consult your local extension services for disease outbreak forecasts and additional integrated pest management recommendations for your area.

For resistance management, please note that **ZAMPRO Fungicide** contains a Group 40 Fungicide and a Group 45 fungicide. Any fungal population may contain individuals naturally resistant to **ZAMPRO Fungicide**. The resistant individuals may dominate the fungal population 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:

- Avoid application of more than two consecutive sprays of **ZAMPRO Fungicide** or other fungicides in the same group in a season.

- Fungicide use should be based on an IPM program that includes scouting, historical information related to pesticide use and crop rotation and considers cultural, biological and other chemical control practices.
- Monitor treated fungal populations for resistance development.
- 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 and to report suspected resistance, contact BASF at 1-877-371-2273.

MIXING

1. Ensure the spray tank is clean before use. Follow the clean-out recommendations stated on the label of the product that was previously used.
2. Fill the tank one-half full of water and start agitation.
3. Add the required amount of **ZAMPRO Fungicide** to the tank.
4. Add the required amount of tank mix partner or adjuvant to the tank.
5. Continue agitation while filling the remainder of the spray tank.
6. After use, clean the spray tank after use.

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