

Container

TORRENT[®] 400SC Agricultural Fungicide

COMMERCIAL

SUSPENSION

READ THE LABEL BEFORE USING

ACTIVE INGREDIENT: Cyazofamid.....34.5 %

Contains 400 grams of Cyazofamid per litre

Contains Proxel GXL at 0.015% as a preservative

OR

Contains 2-Bromo-2-nitropropane-1,3-diol at 0.007%

and

5-Chloro-2-methyl-4-isothiazolin-3-one at 0.00067%

and

2-Methyl-4-isothiazolin-3-one at 0.00022% as preservatives

REGISTRATION NO: 30392 PEST CONTROL PRODUCTS ACT

Net Contents: 500 ml to 200 L

Registrant
ISK Biosciences Corporation
7470 Auburn Road, Suite A
Concord, Ohio
44077
USA
1-877-706-4640

Distributed By:
Belchim Crop Protection
104 Cooper Drive, Unit 3
Guelph, ON
N1C 0A4
Canada
866-613-3336

TORRENT is a registered trademark of Ishihara Sangyo Kaisha, Ltd.

PROXEL is a registered trademark of Avecia Inc.

SYLGARD is a registered trademark of Dow Corning Corporation.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

DO NOT take internally. Harmful if swallowed.

Avoid contact with eyes.

Avoid prolonged contact with skin. Wash exposed areas of skin thoroughly with soap and warm water after handling or using. Remove contaminated clothing and wash before re-use.

Avoid breathing spray mist.

During mixing, loading, clean-up and repair: workers must wear a long-sleeved shirt, long pants, shoes and socks, chemical-resistant gloves and goggles.

During application: worker must wear a long sleeved shirt and long pants.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 6 days for activities of girdling and turning of grapes. For any other activities, 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.

Pesticide Storage: Store product in original container, in a secured, dry place separate from other pesticides, fertilizer, food, and feed.

If this 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 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 swallowed: 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 centre or doctor. Do not give anything by mouth to a unconscious person.

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.

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 treatment advice.

In Case of Emergency: Call 1-888-484-7546.

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

TOXICOLOGICAL INFORMATION

Treat symptomatically.

ENVIRONMENTAL HAZARDS

Toxic to aquatic organisms and non-target terrestrial plants. 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 of this product 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.

DISPOSAL

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.

Pamphlet

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Avoid breathing spray mist.

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During application: worker must wear a long sleeved shirt and long pants.

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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.

Pesticide Storage: Store product in original container, in a secured, dry place separate from other pesticides, fertilizer, food, and feed.

If this 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.

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

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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 of this product 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.

DISPOSAL

5. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
6. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
7. Make the empty container unsuitable for further use.
8. Dispose of the container in accordance with provincial requirements.
9. 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.

DIRECTIONS FOR USE

TORRENT 400SC Agricultural Fungicide can be used in dilute sprays. Thorough, uniform coverage is essential for disease control.

NOTE: Slowly invert container several times to assure uniform mixture.

Dosage rates on this label indicate litres of **TORRENT 400SC Agricultural Fungicide** per hectare. Apply **TORRENT 400SC Agricultural Fungicide** in sufficient water

volume to obtain coverage of the foliage. Spray volume to be used will vary with the amount of plant growth and will range from 200 to 600 litres per hectare unless specified otherwise. For all foliar applications, **TORRENT 400SC** should be tank-mixed with a non-ionic or organosilicone surfactant (such as Sylgard 309) at the manufacturer's label recommendations.

The required amount of **TORRENT 400SC Agricultural Fungicide** should be added slowly into the spray tank during filling. Keep agitator running when filling spray tank and during spray operations.

DO NOT apply using fogging or ultra low volume equipment.

DO NOT apply using handheld mistblowers or handheld airblast equipment.

DIRECTION FOR USE: AERIAL APPLICATION – CUCURBITS ONLY

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.

TORRENT 400SC Agricultural Fungicide may be applied by air **ONLY** if ground equipment cannot be used due to flooded field conditions.

Use Precautions

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

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 (440) 357-4651 or obtain technical advice from the distributor or your provincial agricultural representative. Application of the specific product must meet and/or conform to the following:

Volume: Apply the recommended rate in a minimum spray volume of 50 litres per hectare.

Integrated Pest Management

Although **TORRENT 400SC Agricultural Fungicide** has limited systemic activity, it should be treated as a protectant fungicide and applied before the disease enters the crop. **TORRENT 400SC Agricultural Fungicide** is recommended for use as part of an Integrated Pest Management (IPM) program, which may include the use of disease resistant crop varieties, cultural practices, crop rotation, biological disease control agents, pest scouting and disease forecasting systems aimed at preventing economic pest damage. Practices known to reduce disease development should be followed. Consult your provincial agricultural authorities for additional IPM strategies established in your area. **TORRENT 400SC Agricultural Fungicide** may be used in disease forecasting programs that recommend application timing based upon environmental factors that favour disease development.

Resistance Management

For resistance management, please note that **TORRENT 400SC Agricultural Fungicide** contains a Group 21 fungicide. Any fungal population may contain individuals naturally resistant to **TORRENT 400SC Agricultural Fungicide** and other Group 21 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.

DIRECTIONS FOR USE

(Continued)

To delay fungicide resistance:

- **DO NOT** make sequential applications of **TORRENT 400SC Agricultural Fungicide** or other fungicides in the same group. After one application, alternate **TORRENT 400SC Agricultural Fungicide** with at least one application of fungicide having a different mode of action that controls the same pathogens.

- Do not exceed the total number of applications of **TORRENT 400SC Agricultural Fungicide** per season per crop as stated in the “Directions for use” section of the label.
- Use tank mixtures with fungicides from a different group that is effective on the target pathogen when such use is permitted.
- **TORRENT 400SC Agricultural 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 ISK Biosciences Corporation if reduced sensitivity of the pathogen to **TORRENT 400SC** 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 and to report suspected resistance, contact Mark Gelin, ISK Biosciences Corporation, at 1-440-357-4644 Outside Canada (Long distance charges apply) or at gelinm@iskbc.com.

DIRECTIONS FOR USE

(Continued)

Since pathogens differ in their potential to develop resistance to fungicides, follow the directions outlined in the “Directions For Use” section of this label for specific resistance management strategies. Consult with your Provincial agricultural authorities for guidance on the proper use of **TORRENT 400SC Agricultural Fungicide** in programs that seek to minimize the occurrence of disease resistance.

NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:

The DIRECTIONS FOR USE for this product for the use(s) described below were developed by persons other than ISK Biosciences Corporation and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. ISK Biosciences Corporation itself makes no representation or warranty with respect to performance (efficacy) or crop tolerance (phytotoxicity) claims for this product when used on the crops listed below.

Accordingly, the Buyer and User assume all risks related to performance and crop tolerance arising, and agree to hold ISK Biosciences Corporation harmless from any claims based on efficacy or phytotoxicity in connection with the use(s) described below.

Greenhouse and Outdoor Ornamental Plants:

Because of the large diversity of plants in the Ornamentals groups, it is not possible to test **TORRENT 400SC Agricultural Fungicide** on every ornamental species and varieties covered under the following claims. To ensure that **TORRENT 400SC Agricultural Fungicide** is compatible with an ornamental plant variety under specific conditions, it is recommended that small scale tests be performed to assess any possible phytotoxicity or other unintended side effects before making large scale applications.

Container Grown Plants – Soil Application

For control of root and crown rot diseases of ornamentals, including conifers, grown in containers in greenhouses, outdoor nurseries and landscapes apply **TORRENT 400SC Agricultural Fungicide** as a soil drench or soil surface spray. Do not make more than 2 soil applications of **TORRENT 400SC Agricultural Fungicide** per crop cycle. **TORRENT 400SC Agricultural Fungicide** may also be applied via drip irrigation systems. For drench applications to containerized plants, use enough of the specified water solution to wet the root zone with minimal run-through (see Maximum Drench Volume table below).

Field Grown (Bed) Plants – Soil Application

For control of root and crown rot in field-grown (bed) plants, including forest tree nurseries, with drench applications, use sufficient water solution to allow for penetration into the root zone. For soil surface applications made in outdoor nurseries, irrigate with at least ½ inch (1.27cm) of water if rainfall does not occur within 24 hours. For all field grown (bed) plant applications, apply **TORRENT 400SC Agricultural Fungicide** only to the root zone area of the plant at the rate of 234 - 468mL of **TORRENT 400SC Agricultural Fungicide** per 1000 liters. Do not exceed 9350L of this mixture per hectare per application (1748g a.i./ha). Do not make more than 2 applications of **TORRENT 400SC Agricultural Fungicide** per year to field grown (bed) plants (3496g a.i./ha/yr.). Applications may also be applied via drip irrigation.

Container and Field Grown (Bed) Plants - Foliar Application

Applications of **TORRENT 400SC Agricultural Fungicide** should begin when conditions are favorable for disease development or when plants first exhibit disease symptoms, from germination to mature crop. For foliar applications against foliar blights, apply sufficient spray solution to thoroughly wet the foliage to the point of run-off (do not exceed 1000 liters per hectare).

Do not exceed 3 applications of **TORRENT 400SC Agricultural Fungicide** per crop cycle for control of downy mildews or Phytophthora foliar diseases.

Greenhouse Cut flowers

For greenhouse grown cut flowers, do not make more than 2 applications of **TORRENT 400SC Agricultural Fungicide**. Do not exceed a rate of 273 mL/1000L of water for

foliar applications.

Resistance Management:

DO NOT apply sequential applications of **TORRENT 400SC Agricultural Fungicide** or other fungicides in the same group. After one application, alternate **TORRENT 400SC Agricultural Fungicide** with at least one application of fungicide having a different mode of action.

For Application to Ornamentals, Grown Outdoors:

Crops	Diseases	Product Rate per 1000 Liters of Water	Instructions
<p>Rhododendron Juniper</p>	<p>Root rot caused by <i>Phytophthora cinnamomi</i> (suppression)</p>	<p>25 mL/100 litres of water</p>	<p>Resistance Management: DO NOT apply more than four applications of TORRENT 400SC Agricultural Fungicide per crop per year. DO NOT make sequential applications of TORRENT 400SC Agricultural Fungicide or other fungicides in the same group. After one application, alternate TORRENT 400SC Agricultural Fungicide with at least one application of fungicide having a different mode of action for control of root rot caused by <i>Phytophthora cinnamomi</i>.</p> <p>Application instructions: Apply 120 ml of the solution per 15 cm pot or 6.8 litres/m² as a soil drench. Avoid contact with plant foliage.</p> <p>Make applications on a 14 to 28 day interval using another registered fungicide with a different mode of action between applications of TORRENT 400SC Agricultural Fungicide. Use the shortest interval when disease conditions are severe.</p>
<p>Greenhouse and Outdoor Ornamental Plants</p>	<p>Pythium crown and root rot</p>	<p>(soil applications) 117 – 234mL</p>	<p>Make applications on a 14 to 28 day interval for all disease claims using another registered fungicide with a different mode of action between applications of TORRENT 400SC Agricultural Fungicide.</p> <p>Within the rate range, use the lower rate and shortest interval and the higher rate at the longest interval.</p> <p>When disease is severe use the highest</p>

		<p>rate at the shortest interval.</p> <p>See the rate chart below for application volumes for container grown plants.</p>
	<p>Phytophthora crown and root rot</p>	<p>(soil applications) 234 – 468mL</p> <p>Make applications on a 14 to 28 day interval using another registered fungicide with a different mode of action between applications of TORRENT 400SC Agricultural Fungicide.</p>
	<p>Phytophthora foliar blights</p>	<p>(foliar applications) 234-468mL</p> <p>Use the shortest interval when disease conditions are severe. See the rate chart below for soil applications to container grown plants.</p> <p>For foliar applications against foliar blights, apply sufficient product to wet all foliage to the point of run-off (do not exceed 1000 liters per hectare). Do not exceed a rate of 273mL/1000 L of water for foliar applications on greenhouse grown cut flowers.</p>
	<p>Downy mildews caused by <i>Peronospora</i> spp.</p>	<p>164 – 273mL</p> <p>Apply on a 14 to 21 day schedule, (refer to the additional directions given in the Foliar Application paragraphs above).</p> <p>Within the rate range, use the lower rate at the shortest interval and the higher rate at the longest interval.</p> <p>When disease conditions are severe use the highest rate and shortest interval.</p> <p>Apply sufficient volume (normally 500 to 1000 liters per hectare) to wet all foliage to the point of run-off. If water volumes used are less than 500 liters per hectare, an organosilicone surfactant should be added when the disease infection is severe, or a non-ionic surfactant or a blend of an organosilicone and a nonionic surfactant should be added when disease infection is moderate or light, according to the manufacturers label recommendations.</p>

For Container Grown Plants:

Pot Diameter (Inches)	Pot Diameter (Centimeters)	Maximum Drench Volume (mL of drench mixture/pot)
4	10	60
5	13	90
6	15	120
8	20	300
10	25	591
12	30	887

<i>Crop</i>	<i>Diseases</i>	<i>Rate/Hectare (Product)</i>	<i>Instructions</i>
<p>Cucurbits Vegetables (Crop Group 9), balsam apple, balsam pear, cantaloupe, chayote fruit, Chinese cucumber, Chinese waxgourd, citron melon, cucumber, edible gourd, melon, muskmelon, pumpkin, squash, summer squash, watermelon, West Indian gherkin and winter squash).</p>	<p>Downy Mildew (<i>Pseudoperonospera cubensis</i>)</p>	<p>Ground: 0.15 to 0.2 L in 200 to 600 L of water per hectare</p> <p>Aerial: 0.15 to 0.2 L in a minimum of 50 L water per hectare</p>	<p>Resistance Management: DO NOT apply more than six applications of TORRENT 400SC Agricultural Fungicide per crop per year. DO NOT make sequential applications of TORRENT 400SC Agricultural Fungicide or other fungicides in the same group. After one application, alternate TORRENT 400SC Agricultural Fungicide with at least one application of fungicide having a different mode of action for control of downy mildew.</p> <p>Where TORRENT 400SC Agricultural Fungicide is applied alone do not exceed 1 spray of a Group 21 fungicide out of every 3 fungicide applications. Do not use consecutive applications of TORRENT 400SC Agricultural Fungicide. Alternate TORRENT 400SC Agricultural Fungicide with fungicides from a different cross-resistance group with satisfactory efficacy against downy mildew. Continue Qil (Group 21) fungicide alternation between successive crops.</p> <p>Application instructions: For late downy mildew control, make TORRENT 400SC Agricultural Fungicide applications on a 7 to 10 day schedule beginning with initial flowering or when disease conditions are favourable for disease development, but prior to</p>

			<p>disease outbreak. Use the low rate and long interval as disease preventative sprays or when disease conditions are low. Increase to highest rate and shortest interval under moderate to heavy disease pressure.</p> <p>TORRENT 400SC should be tank-mixed with a non-ionic or organosilicone surfactant (such as Sylgard 309) at the manufacturer's label recommendations. Spray volume to be used will vary with the amount of plant growth and will range from 200 to 600 litres per hectare.</p> <p>DO NOT apply within 1 day of harvest.</p> <p>A plant back interval of 30 days is required.</p>
Carrots	Cavity Spot, Root Dieback/Forking (<i>Pythium</i> spp.) (Suppression Only)	0.44 L per hectare	<p>Application instructions: A maximum of one application of TORRENT 400SC Agricultural Fungicide per season is allowed, either as a post-plant, pre-emergent application within 3 days after planting or as a soil-directed spray 14 days after planting.</p> <p>Post-plant, pre-emergent application: Apply TORRENT 400SC Agricultural Fungicide to the soil as a post-planting/seeding, pre-emergence (before plant emergence) treatment within 3 days after planting/seeding. Apply in sufficient water to obtain full coverage and follow with sprinkler irrigation of 1.25-2.5 cm of water to properly move the product to the root zone.</p> <p>Surface application (broadcast or band): A single application may be made 14 days after planting/seeding. Apply in sufficient water to obtain adequate coverage with the applications directed to the base of the plant.</p>

			<p>TORRENT 400SC Agricultural Fungicide should be incorporated into the soil with 1.25-2.5 centimeters of water. If irrigation is not immediately available after the application, the application should be made in sufficient water to allow penetration into the soil.</p> <p>For banded applications, a 15.2 – 20.3 cm band is recommended (see formula to calculate amount required in the band).</p> <p>Calculate the amount of TORRENT 400SC Agricultural Fungicide needed for band treatments by the formula:</p> $\frac{\text{Band width in cm}}{\text{Row spacing in cm}} \times \text{Broadcast rate per hectare} = \text{Amount needed per hectare of field}$ <p>Boom height must be 60 cm or less above the crop or ground.</p> <p>DO NOT apply by air.</p> <p>DO NOT apply within 30 days of harvest.</p>
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<i>Crop</i>	<i>Diseases</i>	<i>Rate/Hectare (Product)</i>	<i>Instructions</i>
Spinach	White rust (<i>Albugo occidentalis</i>) Suppression only	0.15 to 0.2 L in 300 to 500 L of water per hectare	<p>Resistance Management: DO NOT apply more than five applications of TORRENT 400SC Agricultural Fungicide per crop per year. DO NOT make sequential applications of TORRENT 400SC Agricultural Fungicide or other fungicides in the same group. After one application, alternate TORRENT 400SC Agricultural Fungicide with at least one application of fungicide having a different mode of action for control of disease. Where TORRENT 400SC Agricultural Fungicide is applied alone do not exceed 1 spray of a Group 21 fungicide out of every 3</p>

			<p>fungicide applications. Do not use consecutive applications of TORRENT 400SC Agricultural Fungicide. Alternate TORRENT 400SC Agricultural Fungicide with fungicides from a different cross-resistance group with satisfactory efficacy against white rust. Continue Qil (Group 21) fungicide alternation between successive crops.</p> <p>Application instructions: For white rust suppression, make TORRENT 400SC Agricultural Fungicide applications on a 7 - day schedule beginning when disease is first seen or when conditions favour disease development. Use the low rate for preventative applications or very low disease pressure; use high rate as disease pressure increases.</p> <p>TORRENT 400SC should be tank-mixed with a non-ionic or organosilicone surfactant (such as Sylgard 309) at 0.15 L/ha. Spray volume to be used will vary with the amount of plant growth and will range from 300 to 500 litres per hectare.</p> <p>DO NOT apply within 1 day of harvest.</p> <p>DO NOT apply by air.</p> <p>A plant back interval of 30 days is required.</p>
<i>Crop</i>	<i>Diseases</i>	<i>Rate/Hectare (Product)</i>	<i>Instructions</i>
Greenhouse tomato, pepper, cucumber, brassica and lettuce transplants for field production	Pythium Damping-off and root rot <i>Pythium spp.</i>	30 ml/100 L water	<p>Make a single application of the fungicide solution at the rate of 30 ml TORRENT 400SC per 100 L of water as a soil drench to thoroughly wet the growing medium immediately after seeding.</p> <p>Do not use any surfactant with this drench application.</p> <p>DO NOT apply within 60 days of harvest for tomato, pepper, cucumber, and brassicas.</p> <p>DO NOT apply within 40 days of harvest for lettuce.</p>

<i>Crop</i>	<i>Diseases</i>	<i>Rate/Hectare (Product)</i>	<i>Instructions</i>
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Greenhouse grown cucumbers	Downy Mildew (<i>Pseudoperonospera cubensis</i>)	0.15 to 0.2 L in 400 to 2000 L of water per hectare	<p>Resistance Management: DO NOT apply more than four applications of TORRENT 400SC per crop cycle. DO NOT make sequential applications of TORRENT 400SC or other fungicides in the same group. After one application, alternate TORRENT 400SC with at least one application of fungicide having a different mode of action for control of downy mildew.</p> <p>Where TORRENT 400SC is applied alone do not exceed 1 spray of a Group 21 fungicide out of every 3 fungicide applications. Do not use consecutive applications of TORRENT 400SC. Alternate TORRENT 400SC with fungicides from a different cross-resistance group with satisfactory efficacy against downy mildew. Continue Qil (Group 21) fungicide alternation between successive crops.</p> <p>Application instructions: For late downy mildew control, make TORRENT 400SC applications on a 7 to 10 day schedule beginning with initial flowering or when disease conditions are favourable for disease development, but prior to disease outbreak. Use the low rate and long interval as disease preventative sprays or when disease conditions are low. Increase to highest rate and shortest interval under moderate to heavy disease pressure.</p> <p>TORRENT 400SC should be tank-mixed with a non-ionic or organosilicone surfactant at the lowest label rate for water volumes below 600 L/ha (such as Xiameter OFX-0309 at 0.03% v/v). At water volumes above 600 L/ha, a surfactant is not needed. DO NOT apply within 1 day of harvest.</p>
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<i>Crop</i>	<i>Diseases</i>	<i>Rate/Hectare (Product)</i>	<i>Instructions</i>
Greenhouse pepper	Phytophthora blight, crown rot and root rot caused by <i>Phytophthora capsici</i>	25 ml/100 L water	Make the first application of the fungicide solution at the rate of 25 ml TORRENT 400SC per 100 L of water as a soil drench to thoroughly wet the growing medium immediately at transplant and the second, if needed, 6 to 8 weeks later.

			<p>Do not use any surfactant with this drench application.</p> <p>DO NOT apply a drench volume greater than 200 mL per plant per application</p> <p>The Pre-Harvest Interval (PHI) for this crop is 0 days.</p>
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<i>Crop</i>	<i>Diseases</i>	<i>Rate/Hectare (Product)</i>	<i>Instructions</i>
Basil (Field and Greenhouse)	<i>Downy mildew (<u>Peronospora belbahrii</u>)</i>	0.20 – 0.22 L per hectare	<p><u>Resistance Management:</u> DO NOT apply more than four applications of TORRENT 400SC Agricultural Fungicide per crop per year. DO NOT make sequential applications of TORRENT 400SC Agricultural Fungicide or other fungicides in the same group. After one application, alternate TORRENT 400SC Agricultural Fungicide with at least one application of fungicide having a different mode of action for control of downy mildew. Where TORRENT 400SC Agricultural Fungicide is applied alone do not exceed 1 spray of a Group 21 fungicide out of every 3 fungicide applications. Do not use consecutive applications of TORRENT 400SC Agricultural Fungicide. Alternate TORRENT 400SC Agricultural Fungicide with fungicides from a different cross-resistance group with satisfactory efficacy against downy mildew. Continue Qil (Group 21) fungicide alternation between successive crops.</p> <p>Application instructions: Apply as a foliar broadcast.</p> <p>DO NOT apply by air.</p> <p>The Pre-Harvest Interval (PHI) for this crop is 0-day.</p> <p>For control of downy mildew on basil make the applications on a 7 to 10-day schedule beginning when disease conditions are favorable for disease development. Use the lower rate and longest interval as disease preventative sprays or when disease conditions are low. Increase to the highest rate and shortest interval under moderate to heavy disease pressure.</p> <p>TORRENT 400SC should be tank-mixed with a non-ionic or organosilicone surfactant (such as</p>

			Sylgard 309) at 0.15 L/ha. Spray volume to be used will vary with the amount of plant growth and will range from 200 to 600 litres per hectare.
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<i>Crop</i>	<i>Diseases</i>	<i>Rate/Hectare (Product)</i>	<i>Instructions</i>
Beans (Snap & Lima)	<p>Downy mildew (<i>Phytophthora phaseoli</i>)</p> <p>Cottony leak (<i>Pythium aphanidermatum</i>)</p> <p>Phytophthora blight (<i>Phytophthora capsici</i>)-<i>suppression</i></p>	0.20 L per hectare	<p>Resistance Management: DO NOT apply more than six applications of TORRENT 400SC per crop per year. DO NOT make sequential applications of TORRENT 400SC or other fungicides in the same group.</p> <p>Where TORRENT 400SC is applied alone do not exceed 1 spray of a Group 21 fungicide out of every 3 fungicide applications. Do not use consecutive applications of TORRENT 400SC. Alternate TORRENT 400SC with fungicides from a group with a different mode of action and satisfactory efficacy. Continue Group 21 fungicide alternation between successive crops.</p> <p>Application instructions: Apply as a foliar broadcast.</p> <p>DO NOT apply by air.</p> <p>For control of downy mildew on lima beans make the applications on a 7 to 10-day schedule beginning when disease first appears or when disease conditions are favorable for disease development. Use the long interval as disease preventative sprays or when disease conditions are low. Increase to the shortest interval under moderate to heavy disease pressure. After one application, alternate TORRENT 400SC with at least one application of fungicide having a different mode of action for control of downy mildew.</p> <p>For control of cottony leak on lima beans and snap beans make the initial application at full bloom (1st pods) and repeat on a 7 to 14-day schedule. Use the long interval as disease preventative sprays or when disease conditions are low. Increase to the shortest interval under moderate to heavy disease pressure. DO NOT make sequential applications of TORRENT 400SC or other fungicides in the same group. When spraying for cottony leak, limit the number of TORRENT 400SC applications to</p>

			<p>one if no product effective against cottony leak with a different mode of action is available.</p> <p>For suppression of Phytophthora blight on lima beans and snap beans make the 1st application at 100% bloom-pin pod development and a 2nd application at late pin-small pod development and repeat every 7 days as needed to maintain disease control. DO NOT make sequential applications of TORRENT 400SC or other fungicides in the same group. When spraying for Phytophthora blight, limit the number of TORRENT 400SC applications to one if no product effective against Phytophthora blight with a different mode of action is available.</p> <p>TORRENT 400SC should be tank-mixed with a non-ionic or organosilicone surfactant (such as Sylgard 309) at the manufacturer's label recommendations. Spray volume to be used will vary with the amount of plant growth and will range from 200 to 600 litres per hectare.</p> <p>The Pre-Harvest Interval (PHI) for this crop is 0-day.</p> <p>Crops on this label may be planted immediately after the last treatment. Do not plant other crops not registered for this product within 30 days after the last application.</p>
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<i>Crop</i>	<i>Diseases</i>	<i>Rate/Hectare (Product)</i>	<i>Instructions</i>
Lettuce (Leaf & Head)	Downy mildew (<i>Bremia lactucae</i>)-suppression	0.20 L per hectare	<p>Resistance Management: DO NOT apply more than six applications of TORRENT 400SC Agricultural Fungicide per crop per year. DO NOT make sequential applications of TORRENT 400SC Agricultural Fungicide or other fungicides in the same group. After one application, alternate TORRENT 400SC Agricultural Fungicide with at least one application of fungicide having a different mode of action for control of downy mildew. Where TORRENT 400SC Agricultural Fungicide is applied alone do not exceed 1 spray of a Group 21 fungicide out of every 3 fungicide applications. Do not use consecutive applications of TORRENT 400SC Agricultural Fungicide. Alternate TORRENT 400SC Agricultural</p>

		<p>Fungicide with fungicides from a different cross-resistance group with satisfactory efficacy against downy mildew. Continue Qil (Group 21) fungicide alternation between successive crops.</p> <p>Application instructions: Apply as a foliar broadcast or spray directed to the base of the plant.</p> <p>DO NOT apply by air.</p> <p>Make the first TORRENT 400SC Agricultural Fungicide application after seeding or once the lettuce transplants are set in the field. Subsequent applications should be initiated when weather conditions are favourable for downy mildew development or when disease first appears in the field. All subsequent applications on a 7-14 day schedule, using the shorter interval when disease pressure is moderate to severe.</p> <p>TORRENT 400SC should be tank-mixed with a non-ionic or organosilicone surfactant (such as Sylgard 309) at the manufacturer's label recommendations. Spray volume to be used will vary with the amount of plant growth and will range from 200 to 600 litres per hectare.</p> <p>The Pre-Harvest Interval (PHI) for this crop is 0-day.</p> <p>Crops on this label may be planted immediately after the last treatment. Do not plant other crops not registered for this product within 30 days after the last application.</p>
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<i>Crop</i>	<i>Diseases</i>	<i>Rate/Hectare (Product)</i>	<i>Instructions</i>
Greenhouse tomato (greenhouse production)	Pythium Root Rot (<i>Pythium</i> spp.)	<u>25 mL/100 L water</u>	<p>Application instructions: <u>Drench application:</u> Make the first application at transplant. A second application may be made 6-8 weeks later, if needed.</p> <p>DO NOT use any surfactant with this drench application. DO NOT apply a drench volume greater than 200 ml per plant per application.</p> <p><u>Drip irrigation:</u> Make the first application at transplant. A second application may be made up until the day of harvest. To ensure that there is no over-drain: Slow normal watering towards the end of the day to prevent over drain. Then apply product through the drip</p>

			<p>irrigation system as the last activity at the end of the day. Apply 50 ml per plant two to four times (for a total of 100-200 ml/plant) and then stop watering altogether and let stand overnight. Begin watering again as usual the next day.</p> <p>DO NOT use any surfactant with this drip irrigation application. DO NOT apply a volume greater than 200 ml per plant per application. The Pre-Harvest Interval (PHI) is 0-day.</p>
	<p>Late blight (<i>Phytophthora infestans</i>)</p>	<p>0.15 to 0.20 L per hectare</p>	<p>Use a sufficient water volume to ensure coverage of the crop. The spray volume can vary from 400 to 2000 litres per hectare depending on the size of the plants.</p> <p>Resistance Management: DO NOT apply more than five applications of TORRENT 400SC Agricultural Fungicide per crop per year. DO NOT make sequential applications of TORRENT 400SC Agricultural Fungicide or other fungicides in the same group. After one application, alternate TORRENT 400SC Agricultural Fungicide with at least one application of fungicide having a different mode of action for control of late blight.</p> <p>Where TORRENT 400SC Agricultural Fungicide is applied alone do not exceed 1 spray of a Group 21 fungicide out of every 3 fungicide applications. Alternate TORRENT 400SC Agricultural Fungicide with fungicides from a different cross-resistance group with satisfactory efficacy against downy mildew. Continue Qil (Group 21) fungicide alternation between successive crops.</p> <p>Application instructions:</p> <p>Apply as a foliar broadcast. Apply on a 7-10 day schedule beginning when conditions are favorable for disease development, but prior to disease outbreak. Use the low rate and long interval as disease preventative sprays or when risk of disease development is low. Use the highest rate and shortest interval under moderate to heavy disease pressure.</p> <p>TORRENT 400SC Agricultural Fungicide should be tank-mixed with a non-ionic or organosilicone surfactant at the lowest label rate for water volumes below 600 L/ha (such as Xiameter OFX-0309 at 0.03% v/v). At water volumes above 600 L/ha, surfactant is not needed.</p> <p>The Pre-Harvest Interval (PHI) for this crop is 0-day.</p>
Crop	Diseases	Rate/Hectare (Product)	Instructions

<p>Field Tomato</p>	<p><u>Late blight</u> <u>(<i>Phytophthora infestans</i>)</u></p>	<p>0.1 to 0.2 L in 200 to 600 L of water per hectare</p>	<p>Resistance Management: DO NOT apply more than five applications of TORRENT 400SC Agricultural Fungicide per crop per year. DO NOT make sequential applications of TORRENT 400SC Agricultural Fungicide or other fungicides in the same group. After one application, alternate TORRENT 400SC Agricultural Fungicide with at least one application of fungicide having a different mode of action for control of late blight. Where TORRENT 400SC Agricultural Fungicide is applied alone do not exceed 1 spray of a Group 21 fungicide out of every 3 fungicide applications. Do not use consecutive applications of TORRENT 400SC Agricultural Fungicide. Alternate TORRENT 400SC Agricultural Fungicide with fungicides from a different cross-resistance group with satisfactory efficacy against late blight. Continue Qil (Group 21) fungicide alternation between successive crops.</p> <p>Application instructions: Apply as a foliar broadcast.</p> <p>Make TORRENT 400SC Agricultural Fungicide applications on a 7 to 10-day schedule beginning when warning systems forecast disease infection periods, generally at flower initiation or when conditions are favorable for disease development. Use the lowest rate and longest interval for preventative applications or very low disease pressure, increasing the rate and shortening the interval as disease pressure and/or fast crop development increases up to the maximum rate and shortest interval.</p> <p>TORRENT 400SC should be tank-mixed with a non-ionic or organosilicone surfactant (such as Sylgard 309) at 4:3 ratio (TORRENT 400SC: Sylgard 309) or at the manufacturer's label recommendations. Spray volume to be used will vary with the amount of plant growth and will range from 200 to 600 litres per hectare.</p> <p>The Pre-Harvest Interval (PHI) for this crop is 1-day.</p> <p>Crops on this label may be planted immediately after the last treatment. Do not plant other crops not registered for this product within 30 days after the last application.</p>
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<i>Crop</i>	<i>Diseases</i>	<i>Rate/Hectare (Product)</i>	<i>Instructions</i>
Brassica (Cole) Leafy Vegetables (Crop Group 5) Broccoli <i>(Brassica oleracea var. botrytis)</i> Broccoli, Chinese (gai lon) <i>(Brassica alboglabra)</i> Broccoli raab (rapini) <i>(Brassica campestris)</i> Brussels sprouts <i>(Brassica oleracea var. gemmifera)</i> Cabbage (<i>Brassica oleracea</i>) Cabbage, Chinese (bok choy) <i>(Brassica chinensis)</i> Cabbage, Chinese (napa) <i>(Brassica pekinensis)</i> Cabbage, Chinese, mustard (gai choy) <i>(Brassica campestris)</i> Cauliflower <i>(Brassica oleracea var. botrytis)</i> Cavolo broccolo <i>(Brassica oleracea var. botrytis)</i> Collards <i>(Brassica oleracea var. acephala)</i> Kale <i>(Brassica oleracea var. acephala)</i> Kohlrabi <i>(Brassica oleracea var. gongylodes)</i> Mizuna <i>(Brassica rapa var. japonica)</i> Mustard greens (<i>Brassica juncea</i>) Mustard spinach <i>(Brassica rapa var. perviridis)</i> Rape greens (<i>Brassica napus</i>)	<u>Downy Mildew</u> <i>(<u>Peronospora parasitica</u>)</i> <u>(Suppression only)</u>	0.2 L/ha in a minimum of 300-500 litres of water/ha	Application instructions: Make applications on a 7 to 10 day schedule beginning when disease is first seen or when weather conditions are favourable for disease outbreak. Use the longer interval for preventative applications or very low disease pressure and shorten the interval to 7 days as disease pressure increases. DO NOT apply more than 5 applications per crop per year. TORRENT 400SC should be tank-mixed with a non-ionic or organosilicone surfactant (such as Sylgard 309) at the rate of 0.15 L/ha. Resistance Management: DO NOT make sequential applications of TORRENT 400SC Agricultural Fungicide or other fungicides in the same group. After one application, alternate TORRENT 400SC Agricultural Fungicide with at least one application of fungicide having a different mode of action for control of downy mildew. The Pre-Harvest Interval (PHI) for this crop is 1 day.

<i>Crop</i>	<i>Diseases</i>	<i>Rate/Hectare</i>	<i>Instructions</i>
Grapes, Amur river grapes and cultivars, varieties, and/or hybrids of these	Downy mildew <i>(Plasmopara viticola)</i>	0.15 – 0.2 L/ha	Application Instructions For Downy Mildew control, make fungicide applications on a 10- to 14-day schedule beginning when warning systems forecast disease infection periods or when disease conditions are favorable for disease development. Use the lowest rate and longest interval for preventative applications or very low disease pressure, increasing the rate and shortening the interval as disease pressure and/or fast crop development increases up to the maximum rate and shortest interval. Do not use any surfactant with this application.

			<p>DO NOT apply by air. Spray volume to be used will vary with the amount of plant growth and should be at least 400 litres per hectare. Do not apply within 30 days of harvest.</p> <p>Resistance Management: DO NOT apply more than six applications of TORRENT 400SC per crop per year. DO NOT make sequential applications of TORRENT 400SC or other fungicides in the same group. After one application, alternate TORRENT 400SC with at least one application of fungicide having a different mode of action for control of downy mildew. Where TORRENT 400SC is applied alone do not exceed 1 spray of a Group 21 fungicide out of every 3 fungicide applications. Do not use consecutive applications of TORRENT 400SC. Alternate TORRENT 400SC with fungicides from a different cross-resistance group with satisfactory efficacy against downy mildew. Continue Qil (Group 21) fungicide alternation between successive crops.</p>
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<i>Crop</i>	<i>Diseases</i>	<i>Rate/Hectare (Product)</i>	<i>Instructions</i>
Hops	Downy Mildew (<i>Pseudoperonospora humuli</i>)	0.15 to 0.2 L in at least 935 L of water per hectare	<p>Application instructions: For downy mildew control, make applications on a 7 to 14-day schedule beginning when disease is first seen or weather and downy mildew disease pressure are expected to initiate a disease epidemic. Use the low rate and long interval for preventative applications or very low disease pressure, increasing the rate and shortening the interval as disease pressure and/or fast crop development increases up to the maximum rate and shortest interval. Use water spray volume of at least 935 litres per hectare.</p>

			<p>TORRENT 400SC should be tank-mixed with a non-ionic or organosilicone surfactant (such as Sylgard 309) at the at the manufacturer's label recommendations.</p> <p>Resistance Management: DO NOT apply more than six applications per crop per crop cycle. Alternate foliar sprays of TORRENT 400SC with a fungicide with a different mode of action. DO NOT make more than three consecutive applications of TORRENT 400SC followed by at least three applications of fungicides having different modes of action before applying additional TORRENT 400SC. DO NOT apply more than 1.2 L of product per hectare per crop growing season.</p> <p>The Pre-Harvest Interval (PHI) for this crop is 3 days.</p> <p>Crops on this label may be planted immediately after the last application. Do not plant other crops not registered for this product within 30 days after the last application. DO NOT apply by air.</p>
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<i>Crop</i>	<i>Disease</i>	<i>Rate (Product)</i>	<i>Instructions</i>
Caneberry Subgroup 13-07A Raspberry Blackberry Loganberr y (Including cultivars, varieties and/or hybrids of these)	Phytophthora root rot (<i>Phytophthora rubi</i>)	0.25 L in up to 1000 liters of water/ha	Make one application of the fungicide solution in the Fall and one application in the Spring at the rate of 0.25 L TORRENT 400SC in up to 1000 litres of water per hectare as a soil drench. Do not use any surfactant with this drench application. DO NOT apply within 90 days of harvest.

<i>Crop</i>	<i>Diseases</i>	<i>Rate/Hectare (Product)</i>	<i>Instructions</i>
Bulb Vegetables: Crop Group 3-07	Downy mildew (<i>Peronospora destructor</i>)	0.20 L per hectare	Resistance Management: DO NOT apply more than six applications of TORRENT 400SC Agricultural Fungicide per crop per year. DO NOT make sequential

			<p>applications of TORRENT 400SC Agricultural Fungicide or other fungicides in the same group. After one application, alternate TORRENT 400SC Agricultural Fungicide with at least one application of fungicide having a different mode of action for control of downy mildew. Where TORRENT 400SC Agricultural Fungicide is applied alone do not exceed 1 spray of a Group 21 fungicide out of every 3 fungicide applications. Do not use consecutive applications of TORRENT 400SC Agricultural Fungicide. Alternate TORRENT 400SC Agricultural Fungicide with fungicides from a different cross-resistance group with satisfactory efficacy against downy mildew. Continue Qil (Group 21) fungicide alternation between successive crops.</p> <p>Application instructions: For control of downy mildew on bulb vegetables make the applications on a 7- to 10-day schedule beginning when disease conditions are favorable for disease development. Use the longest interval as disease preventative sprays or when disease conditions are low. Use the shortest interval under moderate to heavy disease pressure.</p> <p>TORRENT 400SC Agricultural Fungicide should be tank-mixed with a non-ionic or organosilicone surfactant (such as Sylgard 309) at the manufacturer's label recommendations. Spray volume to be used will vary with the amount of plant growth and will range from 200 to 600 litres per hectare.</p> <p>The Pre-Harvest Interval (PHI) for this crop is 0-day.</p> <p>DO NOT apply by air.</p> <p>Crops on this label may be planted immediately after the last treatment. Do not plant other crops not registered for this product within 30 days after the last application.</p>
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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.

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.

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) fine/medium/coarse 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 rotorspan.

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 effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

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 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		Buffer Zones (metres) Required for the Protection of:				
			Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		Terrestrial habitat
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Airblast	grapes, Amur river grapes and cultivars, varieties, and/or hybrids of these	Early airblast	1	0	4	1	3
		Late airblast	1	0	2	1	2
	Hops	Early airblast	2	0	5	2	4
		Late airblast	1	0	3	1	2
Field sprayer	Cucurbits, carrot, spinach, lettuce (leaf & head), beans (snap and lima), basil, tomatoes, Brassica vegetables (Crop Group 5), Bulb vegetables (Crop Group 3-07)		1	0	1	1	1
	Outdoor ornamentals		1	1	1	1	1

Aerial	Cucurbits	Fixed wing		1	0	1	1	20
		Rotary wing		1	0	1	1	15

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.

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.