

Container Label

<b>GROUP</b>	<b>7</b>	<b>11</b>	<b>FUNGICIDE</b>
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**EMPIRE WG FUNGICIDE**

**WETTABLE GRANULES**

Broad spectrum fungicide for use in the berry group, Belgian endive, brassica vegetables group, bulb vegetables group, carrots, celeriac, cucurbit crop group, grapes, greenhouse-grown bedding plants, greenhouse cucumbers, greenhouse lettuce, greenhouse peppers, greenhouse tomatoes, hops, leafy vegetables (except brassica), outdoor ornamentals, pomefruit group, stone fruits group and strawberries

**COMMERCIAL (AGRICULTURAL)**

**ACTIVE INGREDIENTS:** Boscalid..... 25.2%  
Pyraclostrobin ..... 12.8%

**REGISTRATION NO. 34691 PEST CONTROL PRODUCTS ACT**

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

**NET CONTENTS:** 1 kg - 25 kg

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

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

## PRECAUTIONS

1. **KEEP OUT OF REACH OF CHILDREN.**
2. Harmful if swallowed. Do not take internally.
3. Avoid contact with eyes, skin and clothing.
4. Wash thoroughly after handling and before eating, drinking or smoking.
5. Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves (rubber, PVC, neoprene or nitrile), socks and shoes. Gloves are not required during application within a closed cab.
6. If clothing becomes contaminated, remove and wash separately from household laundry before reuse.
7. Clean spray equipment thoroughly after use.
8. Crop specific restricted entry intervals are listed under Directions for Use under Crop specific application rate and timing tables.
9. DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

## ENVIRONMENTAL PRECAUTIONS

Toxic to aquatic organisms, non-target terrestrial plants and small wild animals. 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.

Boscalid present in **EMPIRE WG fungicide** is persistent and may carry over. It is recommended that any products containing boscalid not be used in areas treated with this product during the previous season.

## 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

Treat symptomatically.

## STORAGE

1. Store the leftover product in original tightly closed container.
2. **DO NOT** ship or store the product near food, feed, seed and fertilizers.
3. Store 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 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 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.

2022-6412  
2022-12-14

Booklet

GROUP	7	11	FUNGICIDE
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### EMPIRE WG FUNGICIDE

#### WETTABLE GRANULES

Broad spectrum fungicide for use in the berry group, Belgian endive, brassica vegetables group, bulb vegetables group, carrots, celeriac, cucurbit crop group, grapes, greenhouse-grown bedding plants, greenhouse cucumbers, greenhouse lettuce, greenhouse peppers, greenhouse tomatoes, hops, leafy vegetables (except brassica), outdoor ornamentals, pomefruit group, stone fruits group and strawberries

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**NET CONTENTS:** 1 kg - 25 kg

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## GENERAL INFORMATION

This package contains **EMPIRE WG fungicide**, a water dispersible granule (WG). The active ingredients in **EMPIRE WG fungicide** belong to two classes of fungicides, the strobilurins and the anilids. **EMPIRE WG fungicide** contains two different modes of action on most major diseases and is effective against pathogens resistant to other fungicides. **EMPIRE WG fungicide** inhibits spore germination, mycelial growth and sporulation of the fungus on the leaf surface. Optimum disease control is achieved when **EMPIRE WG fungicide** is applied in a regularly scheduled protective spray program and is used in a rotation with fungicides of a different mode of action.

## DIRECTIONS FOR USE (See specific sections for each crop group)

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.

**DO NOT** apply by air.

**DO NOT** use on transplants.

### 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.

Apply recommended rates of **EMPIRE WG fungicide** as instructed in the following series of crop specific application rate and timing tables. Apply **EMPIRE WG fungicide** with ground or airblast spray equipment. Equipment should be checked frequently for proper calibration.

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

Method of application	Crop		Spray buffer Zones (metres) Required for the Protection of:				Terrestrial Habitat
			Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer*	Carrot, celeriac, grapes		5	2	1	1	1
	Berry crop group, bulb vegetables, cucurbit crop group, strawberries, brassica (cole) leafy vegetables, crabapple trees		10	3	1	1	1
	Leafy vegetables		20	3	2	1	1
Airblast	Stone fruits	Early growth stage	40	25	15	15	1
		Late growth stage	35	20	5	5	1
	Berry crop group, crabapple trees	Early growth stage	45	30	20	20	1
		Late growth stage	35	20	10	10	1
	Hops	Early growth stage	45	30	20	15	2
		Late growth stage	35	20	10	10	1
	Grapes	Early growth stage	40	25	10	15	1
		Late growth stage	30	15	4	5	1
	Pome fruits	Early growth stage	45	25	15	15	1
		Late growth stage	35	20	5	5	1

\*For field sprayer application, buffer zones can be reduced with the use of drift reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy, the labelled buffer zone can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy, the labelled buffer zone can be reduced by 30%.

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

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

**CROP-SPECIFIC RECOMMENDATIONS Berry Crop Group Application Rate and Timing Table**

Crop	Disease	Application Rate (kg/ha)	Maximum Number of Applications per Year	Pre-Harvest Interval (days)
Blackberry Raspberry Currant Elderberry	Botrytis grey mould ( <i>Botrytis cinerea</i> ) Anthracnose ( <i>Colletotrichum</i> spp.)	1.3 – 1.6	4	0
Blueberry Gooseberry Huckleberry Loganberry	Phomopsis canker ( <i>Phomopsis vaccinii</i> )	1.6	4	0
Currant Gooseberry	Suppression of powdery mildew ( <i>Sphaerotheca mors-uevea</i> )	1.6	4	0
Lowbush Blueberry*	Suppression of Valdensinia leaf spot ( <i>Valdensinia heterodoxa</i> )	1.3 – 1.6	4	0
	Suppression of septoria leaf spot ( <i>Septoria albopunctata</i> )	1.6	4 – sprout year 2 – crop year	0
Saskatoon Berries	Entomosporium leaf spot ( <i>Entomosporium mespili</i> ) Gymnosporangium rust ( <i>Gymnosporangium nelsonii</i> )	1.6	4	0
<p>Begin applications prior to disease development and continue on a 7 to 14-day schedule. Use the shorter interval and/or the higher rates when disease pressure is high.</p> <p><b>For low bush blueberries and other low bush berries:</b> Do not enter or allow worker entry into treated fields for hand harvesting and hand pruning during the restricted-entry interval (REI) of 24 hours. For all other activities, do not enter or allow worker entry into treated fields until residues have dried.</p> <p><b>For high bush blueberries and other high bush berries:</b> Do not enter or allow worker entry into treated highbush blueberry fields for hand harvesting during the restricted-entry interval (REI) of 24 hours. For all other activities, do not enter or allow worker entry into treated fields until residues have dried.</p> <p><b>For caneberries (blackberry, raspberry and other caneberries):</b> Do not enter or allow worker entry into treated fields for hand harvesting, thinning, hand pruning, training, tying during the restricted-entry interval (REI) of 24 hours. For all other activities, do not enter or allow worker entry into treated fields until residues have dried.</p> <p><b>For currants, gooseberries and Saskatoon berries:</b> Do not enter or allow worker entry into treated fields for hand harvesting during the restricted-entry interval (REI) of 29 days. For all other activities, do not enter or allow worker entry into treated fields until residues have dried.</p> <p>*For low bush blueberry in Eastern Canada only.</p>				

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

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Sharda Cropchem Limited under the User Requested Minor Use Label Expansion program. For these uses, Sharda Cropchem Limited 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.



**Belgian Endive Application Rate and Timing Table**

Crop	Disease	Timing	Application Rate	Maximum Number of Applications per Year	Pre-Harvest Interval (days)
Belgian endive	Root and crown rot ( <i>Sclerotinia sclerotiorum</i> )	Prior to cold storage	5 to 10 g per 100 kg roots	1	19
		Prior to forcing	4 to 7 g per m <sup>2</sup> of forcing tray	1	19

Make one application as a spray to roots, when brought into cold storage. Apply again at the beginning of forcing after the roots have been packed in forcing trays.

- Prior to Cold Storage.** Make one application as a spray to the roots as they move along a conveyor belt used to bring roots from field transportation into cold storage bins. Apply 5 to 10 grams of **EMPIRE WG fungicide** in 2.5 to 3.0 Litres of water per 100 kg roots.
- Prior to Forcing.** Make one application as a spray to the roots at the beginning of forcing, after they have been packed into forcing trays. Apply at the rate of 4 to 7 grams of **EMPIRE WG fungicide** in approximately 0.45 L water per m<sup>2</sup> of forcing tray. Approximately 70 kg of roots will fill 1 square metre of forcing tray.

Maximum product rate per crop 20 grams per 100 kg roots.

**Restrictions.** **DO NOT** apply after the beginning of forcing. Do not apply this product in a way that will contact worker or other persons, either directly or through drift.

**Hops Application Rate and Timing Table**

Crop	Disease	Application Rate (kg/ha)	Pre-Harvest Interval (days)
Hops	Powdery mildew ( <i>Podosphaera macularis</i> ) Suppression of downy mildew ( <i>Pseudoperonospora humuli</i> )	0.105 kg per 100 litres of dilute spray with a maximum of 1524 litres of dilute spray per hectare	46

Begin applications of **Empire WG fungicide** prior to disease development and continue on a 10- to 14-day interval. Use the shorter interval and the higher rate when disease pressure is high.

Application rates are based on 935 litres of dilute spray applied to runoff. Adjust water volume to maintain thorough coverage. Use 234 to 468 litres of dilute spray per hectare (0.25 – 0.49 kg/ha) prior to trellising and 935 to 1524 litres of dilute spray per hectare (0.98 – 1.6 kg/ha) thereafter.

**DO NOT** use more than 1524 litres per hectare of this mixture. If additional spray volume is needed for thorough coverage, use 1.6 kg of **Empire WG fungicide** per hectare in the required spray volume.

Do not enter or allow worker entry into treated hops during the restricted-entry intervals (REI's) of 8 days for hand set irrigation, 46 days for harvesting, and 12 hours for all other activities.

**Empire WG fungicide** should be alternated with another mode of action fungicide registered for the same pest after each application.

**Maximum of 3 applications of Empire WG fungicide per year.**

**Brassica (Cole) Leafy Vegetables Group Application Rate and Timing Table**

Crop	Disease	Application Rate (kg/ha)	Maximum Number of Applications per Year	Pre-Harvest Interval (days)
<u>Crop Subgroup 5–A</u> <u>Head and stem brassica subgroup:</u> Broccoli Broccoli, Chinese Brussels sprouts Cabbage Cabbage, Chinese (napa) Cabbage, Chinese mustard Cauliflower Cavalo broccoli Kohlrabi  <u>Crop Subgroup 5-B</u> <u>Leafy Brassica greens subgroup:</u> Broccoli raab Cabbage, Chinese (bok choy) Collards Kale Mizuna Mustard greens Mustard spinach Rape greens	Botrytis grey mold ( <i>Botrytis cinerea</i> )  Suppression of downy mildew ( <i>Peronospora parasitica</i> )	1.0	4	4

Begin applications prior to disease development at 1.0 kilograms per hectare of **EMPIRE WG fungicide** and continue on a 7 to 14-day schedule. Use the shorter intervals when disease pressure is high.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 days for Brassica (cole) leafy vegetables.

Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves (rubber, PVC, neoprene or nitrile), socks and shoes. Gloves are not required during application within a closed cab.

Do not make sequential applications of **EMPIRE WG fungicide** or other Group 11 fungicides.

**Bulb Vegetables Application Rate and Timing Table**

Crop	Disease	Application Rate (kg/ha)	Maximum Number of Applications per Year	Pre-Harvest Interval (days)
Onions (dry bulb and green) Garlic Leek Chives Shallot	Alternaria purple blotch ( <i>Alternaria porri</i> ) Botrytis leaf blight ( <i>Botrytis squamosa</i> ) Suppression of downy mildew ( <i>Peronosproa destructor</i> )	1.0 – 1.3	6	7

Begin applications prior to disease development at 1.0 - 1.3 kilograms per hectare of **EMPIRE WG fungicide** and continue on a 7 to 14-day schedule. Use the higher rate and/or the shorter intervals when disease pressure is high.

Applications made to control Alternaria purple blotch and Botrytis leaf blight will also suppress downy mildew (*Peronospora destructor*).

To suppress downy mildew, apply **EMPIRE WG fungicide** when disease first appears when applied at a rate of 1.3 kg/ha. Follow up 5-7 days later with a fungicide with a different mode of action that is also effective against downy mildew.

Do not make sequential applications of **EMPIRE WG fungicide** when downy mildew occurs.

Do not enter or allow worker entry into treated areas for thinning during the restricted-entry interval (REI) of 3 days. For all other activities, do not enter or allow worker entry into treated areas until residues have dried.

**Crop Group 9: Cucurbit Crop Vegetable Application Rate and Timing Table**

Crop	Disease	Application Rate (kg product/ha)	Maximum Number of Applications per Year	Pre-Harvest Interval (days)
Cucurbit vegetables: Cucumber (muskmelon and summer squash), Chinese waxgourd (Chinese preserving melon), citron melon, cucumber, gherkin, edible gourd (includes hyotan, cucuzza, hechima, Chinese okra), Momordica spp (includes balsam apple, balsam pear, bittermelon, Chinese cucumber), muskmellon (includes cantaloupe), pumpkin, summer squash, winter squash (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash), watermelon	Powdery mildew ( <i>Podosphaera xanthii</i> )	0.9 – 1.3	4	0 (mechanical harvesting) 3 (hand harvesting)
	Alternaria leaf blight ( <i>Alternaria cucumerina</i> ) Gummy stem blight ( <i>Didymella bryoniae</i> )	1.3		
<p>Do not make sequential applications of <b>EMPIRE WG Fungicide</b> or other Group 11 fungicides.</p> <p>Begin applications prior to disease development and continue on a 7 to 14-day schedule. Use the higher rate and the shorter intervals when disease pressure is high.</p> <p>Do not enter or allow worker entry into treated areas for hand harvesting, thinning, pruning and turning during the restricted-entry interval (REI) of 3 days. For all other activities, do not enter or allow worker entry into treated areas during the restricted-entry interval of 12 hours.</p>				

**Root Vegetables Application Rate and Timing Table**

Crop	Disease	Application Rate (kg/ha)	Maximum Number of Applications per Year	Pre-Harvest Interval (days)
Carrot	Alternaria leaf blight ( <i>Alternaria dauci</i> )	0.580 – 0.735	6	0
Celeriac	Late blight ( <i>Septoria apiicola</i> )	0.735	6	0
<p>Begin applications prior to disease development and continue on a 7 to 14-day schedule. Use the higher rate and/or the shorter intervals when disease pressure is high.</p> <p>Do not enter or allow worker entry into treated areas for hand harvesting during the restricted-entry interval (REI) of 3 days. For all other activities, do not enter or allow worker entry into treated areas until residues have dried.</p>				

**Grape Application Rate and Timing Table**

Crop	Disease	Application Rate (kg/ha)	Maximum Number of Applications per Year	Pre-Harvest Interval (days)
Grape	Powdery mildew ( <i>Erysiphe necator</i> ) Bunch rot complex ( <i>Cladosporium</i> spp., <i>Aspergillus</i> spp.) Suppression of botrytis grey mold ( <i>Botrytis cinerea</i> )	0.420 – 0.735	6	14
	Downy mildew ( <i>Plasmopara viticola</i> ) – Foliar	0.675 – 0.735	6	14
	Black rot ( <i>Guignardia bidwellii</i> ) – Fruit	0.735	6	14
	Anthracnose ( <i>Elsinoe ampelina</i> ) – Foliar	0.735	2	14

For control of powdery mildew, begin applications at bud break or prior to the onset of disease using 0.420 kg/ha on a 10- to 14-day interval. Use 0.735 kg/ha on a 21-day interval. For control of black rot and downy mildew, begin applications at pre-bloom or prior to the onset of disease and continue on a 10-to 14-day interval.

For suppression of Botrytis grey mold, begin applications, prior to the onset of disease, during bloom, prior to bunch closure and at veraison.

For other diseases listed above, begin applications prior to the onset of disease and continue on a 10- to 14-day interval.

Use the higher rate and/or shorter intervals when disease pressure is high and during periods of rapid growth.

Use a minimum of 250 L/ha water volume.

Not for use on table grapes.

**Do not use on Concord, Worden or Fredonia varieties due to possible injury.**

**Sensitive Crops**

**EMPIRE WG fungicide** may cause injury to foliage of Concord or related grape varieties such as Worden and Fredonia. Do not use **EMPIRE WG fungicide** on these varieties and use special care when applying **EMPIRE WG fungicide** to prevent contact with these sensitive varieties. Consult your retailer or provincial specialist for more information concerning these sensitive grape varieties. Thoroughly rinse spray equipment, including the inside of the tank, hoses and nozzles after using **EMPIRE WG fungicide** and again before using the same spray equipment on Concord, Worden and Fredonia varieties sensitive to **EMPIRE WG fungicide**.

Do not enter or allow worker entry into treated grapes during the restricted-entry interval (REI) for 21 days for hand harvesting, thinning, tying, leaf pulling and hand pruning. For all other activities, do not enter or allow worker entry into treated grape fields until residues have dried.

**Greenhouse Cucumbers Application Rate and Timing Table**  
**Do not use on greenhouse transplants.**

Crop	Disease	Application Rate (kg/ha)	Pre-Harvest Interval (days)
Greenhouse cucumbers	Powdery mildew ( <i>Sphaerotheca fuliginea</i> ) Suppression of gummy stem blight ( <i>Didymella bryoniae</i> )	1.3	0

Apply when conditions favour disease development.

**DO NOT** apply this product using any type of foggers or misters.

Use a minimum of 250 L/ha water volume.

**DO NOT** apply more than once per crop cycle.

**DO NOT** re-enter until sprays have dried.

**Greenhouse-Grown Bedding Plants Application Rate and Timing Table**

Crop	Disease	Application Rate (g/100 L)*	Pre-Harvest Interval (days)
Greenhouse-grown bedding plants	Powdery mildew ( <i>Erysiphe cichoracearum</i> and <i>Erysiphe polygoni</i> )	73.5 – 120	N/A

\* Based on 1000 L/ha spray to runoff

Begin application prior to disease development and continue on a 7- to 10-day schedule. Use the shorter interval and/or the higher rate when disease pressure is high.

**DO NOT** apply more than four applications per year. Do not use consecutive applications of **EMPIRE WG fungicide** or other QoI fungicides (Group 11 fungicides). Use a maximum of 1 QoI fungicide spray out of every 3 fungicide applications.

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

Not all species have been tested for phytotoxicity. It is recommended that the user test a small sample before applying to the entire crop.

**DO NOT** expose wintercreeper (*Euonymus radicans vegetus*) and ninebark (*Physocarpus Opulifolius*) to spray or drift containing **EMPIRE WG fungicide** as injury may result. Be cautious when applying **EMPIRE WG fungicide** to impatiens (*Impatiens spp.*) and petunia (*Petunia spp.*) during flowering as discolouration may occur.

Do not use on cut flowers.

**Greenhouse Lettuce Application Rate and Timing Table**

**Do not use on greenhouse transplants.**

Crop	Disease	Application Rate (kg/ha)	Pre-Harvest Interval (days)
Greenhouse lettuce	Suppression of powdery mildew ( <i>Erysiphe cichoracearum</i> )	1.3 – 1.6	0
<p>Begin application prior to disease development.</p> <p><b>EMPIRE WG fungicide</b> with 1 application will provide suppression of powdery mildew on greenhouse lettuce for a period of 10 to 14 days depending on disease pressure.</p> <p><b>DO NOT</b> apply this product using any type of foggers or misters.</p> <p>Use a minimum of 250 L/ha water volume.</p> <p><b>DO NOT</b> apply more than one (1) time per crop cycle.</p> <p>DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.</p>			

**Greenhouse Peppers Application Rate and Timing Table**

**Do not use on greenhouse transplants.**

Crop	Disease	Application Rate (kg/ha)	Pre-Harvest Interval (days)
Greenhouse peppers	Suppression of powdery mildew ( <i>Leveillula taurica</i> )	1.2	1
<p>Begin applications prior to disease development.</p> <p><b>EMPIRE WG fungicide</b> with one application will suppress powdery mildew (<i>Leveillula taurica</i>) on greenhouse peppers.</p> <p><b>DO NOT</b> apply this product using any type of foggers or misters.</p> <p>Use a minimum of 250 L/ha water volume.</p> <p><b>DO NOT</b> apply more than one (1) time per crop cycle.</p> <p>DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.</p>			

**Greenhouse Tomatoes Application Rate and Timing Table**

**Do not use on greenhouse transplants.**

Crop	Disease	Application Rate (kg/ha)	Pre-Harvest Interval (days)
Greenhouse tomatoes	Botrytis grey mold ( <i>Botrytis cinerea</i> ) Suppression of powdery mildew ( <i>Oidium lycopersici</i> ; <i>Leveillula taurica</i> ; <i>Erysiphe polygoni</i> )	1.6	0

Begin applications prior to disease development.

**EMPIRE WG fungicide** with 1 application will provide control of Botrytis grey mold and suppression of powdery mildew on greenhouse tomatoes for a period of 10 to 14 days depending on disease pressure.

**DO NOT** apply this product using any type of foggers or misters.

Use a minimum of 250 L/ha water volume.

**DO NOT** apply more than once per crop cycle.

**DO NOT** re-enter until sprays have dried.

**Leafy Vegetables (except brassica vegetables) Application Rate and Timing Table**

Crop	Disease	Application Rate (kg/ha)	Maximum Number of Applications per Year	Pre-Harvest interval (days)
Celery	Suppression of late leaf blight ( <i>Septoria apiicola</i> )	1.0	2	0
	Suppression of early leaf blight ( <i>Cercospora apii</i> )	1.0	1	
	Suppression of sclerotinia white mold, sclerotinia leaf drop ( <i>Sclerotinia</i> spp.)	1.0 – 1.3	2	
Spinach ( <i>Spinacea oleracea</i> , New Zealand, vine)	Suppression of downy mildew ( <i>Peronospora farinosa f.sp. spinaciae</i> )	1.6	2	0
	Suppression of sclerotinia white mold, sclerotinia leaf drop ( <i>Sclerotinia</i> spp.)	1.0 – 1.3	1	
Celtuce, cardoon, Chinese celery, Florence fennel, rhubarb, Swiss chard	Suppression of sclerotinia white mold, sclerotinia leaf drop ( <i>Sclerotinia</i> spp.)	1.0 – 1.3	1	0

Make only one application per crop per year unless otherwise indicated. Begin applications prior to disease development. A second application may be made to the indicated crops on a 7 to 14-day schedule. Use the higher rate and/or the shorter intervals when disease pressure is high.

To suppress downy mildew, apply **EMPIRE WG fungicide** when disease first appears. Follow 5 to 7 days later with a fungicide of a different mode of action registered for downy mildew control on the respective crop. Do not make sequential applications of **EMPIRE WG fungicide** when downy mildew occurs.

Do not enter or allow worker entry into treated areas for 24 hours after application. For hand harvesting and thinning in leafy vegetable crops, do not enter treated areas for 9 days after application.



**Pome Fruit Crop Group Application Rate and Timing Table**

Crop	Disease	Application Rate (kg/ha)	Maximum Number of Applications per Year	Pre-Harvest Interval (days)
Apple, crabapple, loquat, mayhaw, pear, pear oriental, quince	Apple scab ( <i>Venturia inaequalis</i> ) Pear scab ( <i>Venturia pirina</i> ) Powdery mildew ( <i>Podosphaera leucotricha</i> ) Bitter rot / Glomerella leaf blotch ( <i>Colletotrichum</i> spp.) Black rot / Frogeye leaf spot ( <i>Botryosphaeria obtusa</i> )	1.0 – 1.2	4	5
	Flyspeck ( <i>Zygophiala jamaicensis</i> ) Sooty blotch (disease complex) Brooks spot ( <i>Mycosphaerella pomi</i> )	0.6 – 0.8	4	5

**Application Directions for Scab, Powdery Mildew, Frogeye Leaf Spot and Glomerella Leaf Blotch**

Begin applications of **EMPIRE WG fungicide** prior to disease development and continue on a 7 to 10-day interval. Use the higher rate and/or the shorter intervals during periods of rapid growth or when disease pressure is high.

**Application Directions for Flyspeck, Sooty Blotch, Brooks Spot, Black Rot and Bitter Rot**

Begin applications of **EMPIRE WG fungicide** prior to disease development and continue on a 7 to 14-day interval. Use the higher rate and/or shorter intervals when disease pressure is high.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 days for hand thinning and 5 days for hand harvesting. For all other activities, do not enter or allow workers to enter until residues have dried.

**Stone Fruit Application Rate and Timing Table**

Crop	Disease	Application Rate (kg/ha)	Maximum Number of Applications per Year	Pre-Harvest Interval (days)
Apricot Cherry (sweet and sour) Nectarine Peach Plum Prune	Blossom blight ( <i>Monilinia</i> spp.) Brown rot ( <i>Monilinia</i> spp.) Anthracnose ( <i>Colletotrichum</i> spp.) Leaf spot ( <i>Blumeriella jaapii</i> ) Suppression of powdery mildew ( <i>Sphaerotheca</i> spp., <i>Podosphaera</i> spp.)	0.735 – 1.0	5	0
	Rhizopus rot ( <i>Rhizopus stolonifer</i> and other <i>Rhizopus</i> spp.)	0.790 – 1.0	5	0

Begin applications at pink bud or prior to disease development and continue on a 7 to 14-day schedule. Use the high rate and/or the shorter intervals when disease pressure is high.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 10 days for hand thinning and 24 hours for hand harvesting. For all other activities, do not enter or allow worker entry into treated areas until residues have dried.

Notify workers of the pesticide application by warning them verbally and by posting warning signs at entrances to treated areas. This warning sign MUST include the following statement, "DO NOT ENTER TREATED AREA TO DO HAND THINNING OR HARVESTING UNTIL (enter date REI expires)".

**Strawberry Application Rate and Timing Table**

Crop	Disease	Application Rate (kg/ha)	Maximum Number of Applications per Year	Pre-Harvest Interval (days)
Strawberries	Anthracnose ( <i>Colletotrichum</i> spp.) Leaf spot ( <i>Mycosphaerella</i> spp.) Powdery mildew ( <i>Sphaerotheca</i> spp.) – higher rate only at 1.6 kg/ha Botrytis grey mould ( <i>Botrytis cinerea</i> )	1.3 – 1.6	5	1

Begin applications no later than 10% bloom or prior to disease development and continue on a 7 to 14 day schedule. Use the higher rate and/or the shorter intervals when disease pressure is high.

Do not enter or allow worker entry into treated areas for hand harvesting, pinching, hand pruning and training during the restricted-entry interval (REI) of 24 hours. For all other activities, do not enter or allow worker entry into treated areas until residues have dried.

Do not use **EMPIRE WG Fungicide** in strawberry nurseries.

**Outdoor Ornamentals Application Rate and Timing Table**

Crop	Disease	Application Rate (kg/ha)	Maximum Number of Applications per Year	Pre-Harvest Interval (days)
Crabapple	Apple scab ( <i>Venturia inaequalis</i> )	1.0	4	0
Ornamental pear	Pear-trellis rust ( <i>Gymnosporangium fuscum</i> )	1.0 – 1.6	4	0
Serviceberry	Gymnosporangium rust ( <i>Gymnosporangium nelsonii</i> )			

Begin applications prior to disease development and continue on a 7 to 14-day schedule. Use the shorter interval and/or the higher rates when disease pressure is high. Use a minimum of 250 L/ha water volume.

Apply no more than two (2) applications before alternating to a fungicide with a different mode of action that is registered for the same crop/pest combination.

**EMPIRE WG fungicide** has been tested on many species of ornamental plants. The species listed have shown no phytotoxic response to **EMPIRE WG fungicide**; however, not all cultivars have been tested. It is possible that certain cultivars may be sensitive and it is advised that a small number of plants be treated prior to application to the entire planting.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 3 days for hand line irrigation related activities.

### Crop-Specific Restrictions and Limitations

Crop	Minimum Time from Application to Harvest (PHI)	Maximum Rate Per Hectare Per Application (kilograms)	Maximum Number of Applications Per Year or Crop Cycle	Maximum Rate Per Hectare Per Year or Crop Cycle (kilograms)
Berries group: <sup>1</sup> Blueberry, caneberry, raspberry	0 days	1.6	4	6.5
Belgian endive	19 days	10 g per 100 kg root prior to cold storage; 7 g per sq. m. for forcing trays	2	20 g/100 kg roots
Bulb vegetables group: <sup>1</sup> Onions, garlic, leeks	7 days	1.3	6	7.8
Brassica (cole) leafy vegetables group	4 days	1.0	4	4.0
Carrots, celeriac	0 days	0.735	6	4.4
Cucurbit crop group	0 days	1.3	4	5.2
Grapes	14 days	0.735	6	4.4
Greenhouse cucumbers	0 days	1.3	1	1.3
Greenhouse-grown bedding plants	N/A	1.2	1	1.2
Greenhouse lettuce	0 days	1.6	1	1.6
Greenhouse peppers	1 day	1.2	1	1.2
Greenhouse tomatoes	0 days	1.6	1	1.6
Hops	46 days	1.6	3	4.8
Leafy vegetables	0 days	1.6	2	3.2
Outdoor ornamentals: Crabapple	N/A	1.6	4	6.4
Pomefruit group <sup>1</sup>	5 days	1.2	4	4.8
Saskatoon berries	0 days	1.6	4	6.4
Stone fruits group: <sup>1</sup> Apricot, cherry (sweet & sour), nectarine, peach, plum, prune	0 days	1.0	5	5.1
Strawberries	1 day	1.6	5	8.1

<sup>1</sup> For a complete list of the various crop groups and required restricted-entry intervals, see crops listed above.

### 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 spray tank one-half full of water and start agitation.
3. Add the required amount of **EMPIRE WG fungicide** to the tank.
4. Continue agitation while filling the remainder of the spray tank.
5. After use, clean the spray tank.

When tank-mixes are permitted, read and observe all label directions, including rates and restrictions for each product used in the tank-mix. Follow the more stringent label precautionary measures for mixing, loading and applying stated on both product labels.

In some cases, tank mixing a pest control product with another pest control product or a fertilizer can result in biological effects that could include, but are not limited to: reduced pest efficacy or increased host crop injury. The user should contact *Sharda Cropchem Limited* at 1-844-810-5720 for information before mixing any pesticide or fertilizer that is not specifically recommended on this label.

## ENVIRONMENTAL PRECAUTIONS

Toxic to aquatic organisms, non-target terrestrial plants and small wild animals. 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.

Boscalid present in **EMPIRE WG fungicide** is persistent and may carry over. It is recommended that any products containing boscalid not be used in areas treated with this product during the previous season.

## RESISTANCE-MANAGEMENT RECOMMENDATIONS

Please note that **EMPIRE WG fungicide** contains both a Group 7 (boscalid) and Group 11 (pyraclostrobin) fungicide. Any fungal population may contain individuals naturally resistant to **EMPIRE WG fungicide** and other Group 7 and Group 11 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 are specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance management strategies should be followed.

To delay fungicide resistance:

- Adhere to the label instructions regarding the use of **EMPIRE WG fungicide** or other Group 7 or 11 fungicides as stated in the Crop-Specific Restrictions and Limitations section of the label. **DO NOT** apply more than two (2) sequential applications of **EMPIRE WG fungicide** before alternating to at least one application of a fungicide with different mode of action other than Group 7 and Group 11, **unless specified otherwise**. Group 11 containing fungicide applications should be no more than 50% of the total number of fungicide applications per season, **unless specified otherwise**.
- Use tank mixtures with fungicides from a different group that is effective on the target pathogen when such use is permitted.
- Fungicide use should be based on an integrated 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 Sharda Cropchem Limited if reduced sensitivity of the pathogen to **EMPIRE WG 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 advisers for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.
- For further information and to report suspected resistance, contact a Sharda Cropchem Limited representative at 1-844-810-5720.

## RESTRICTIONS AND LIMITATIONS

1. Crop specific restricted entry intervals are listed under Directions for Use under crop specific application rate and timing tables.
2. A plant back restriction of 14 days is required for all crops not on the label.

## PRECAUTIONS

1. **KEEP OUT OF REACH OF CHILDREN.**
2. Harmful if swallowed. Do not take internally.
3. Avoid contact with eyes, skin and clothing.
4. Wash thoroughly after handling and before eating, drinking or smoking.
5. Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves (rubber, PVC, neoprene or nitrile), socks and shoes. Gloves are not required during application within a closed cab.
6. If clothing becomes contaminated, remove and wash separately from household laundry before reuse.
7. Clean spray equipment thoroughly after use.
8. Crop specific restricted entry intervals are listed under Directions for Use under Crop specific application rate and timing tables.
9. DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

## 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**

Treat symptomatically.

## **STORAGE**

1. Store the leftover product in original tightly closed container.
2. **DO NOT** ship or store the product near food, feed, seed and fertilizers.
3. Store 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 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 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.