

68173-4

9/27/2012

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



U S ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Biopesticides and Pollution Prevention Division (7511P)
1200 Pennsylvania Avenue NW
Washington DC 20460

Table with 2 columns: EPA Reg Number (68173-4), Date of Issuance (SEP 27 2012)

Term of Issuance Unconditional

Name of Pesticide Product
Veggieturbo 5SC
Suspension Concentrate
Fungicide

NOTICE OF PESTICIDE
[X] Registration
Reregistration
(under FIFRA as amended)

Name and Address of Registrant (include ZIP Code)
Kaken Pharmaceutical Co Ltd
Agrochemicals & Animal Health Products 28 8
Honkomagome 2 chome
Bunkyo ku
Tokyo 113 8650
Japan

Note Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce In any correspondence on this product always refer to the above EPA registration number

On the basis of information furnished by the registrant the above named pesticide is hereby registered under the Federal Insecticide Fungicide and Rodenticide Act

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency In order to protect health and the environment the Administrator on his/her motion may at any time suspend or cancel the registration of a pesticide in accordance with the Act The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others

This registration does not eliminate the need for continual reassessment of the pesticide If EPA determines at any time, that additional data are required to maintain in effect an existing registration the Agency will require submission of such data under section 3(c)(2)(B) of FIFRA This product is unconditionally registered in accordance with FIFRA Sec 3(c)(5) provided you

- 1 Submit and/or cite all data required for registration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data
2 Revise the EPA Registration Number to read, "EPA Reg No 68173 4"
3 Submit within 1 year after the Date of Registration acceptable data packages for Guideline Studies Storage Stability study (OPPTS GLN 830 6317) and Corrosion Characteristics study (OPPTS GLN 830 6320) for this product
4 Submit two (2) copies of the final printed labeling before you release the product for shipment

A stamped copy of the label is enclosed for your records

Signature of Approving Official
[Signature]

Date
9/27/12

Table with columns for CONCURRENCES, SURNAME, and DATE. Includes handwritten entries: Daniel A. Helfgott, Acting Associate Director; Walsh; 9/24/12; 9/25/12.

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[Front Panel]

GROUP 19 FUNGICIDE

# VEGGIETURBO™ 5SC

Suspension Concentrate Fungicide

*Optional text*  
**For Control of Fungal Diseases of Listed Vegetable and Fruits Crops**  
**For Control of Fungal Diseases of Grapes, Strawberries, and Other Small Fruits**

Active Ingredient	
Polyoxin D zinc salt	5 0%
Other Ingredients	<u>95 0%</u>
Total	100 0%
Contains 7 03 ounces of active ingredient per gallon	

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

See back panel for additional precautionary statements  
*[Alternate statement for 1000 Liter container ]*  
See below for additional precautionary statements

Produced by  
Kaken Pharmaceutical Co , Ltd  
28 8, Honkomagome 2 chome, Bunkyo ku,  
Tokyo, JAPAN 113 8650

EPA Reg No 68173 \_\_\_  
EPA Est No \_\_\_\_\_

**NET CONTENTS**

- 1 Quart (32 Fluid Ounces)
- 1 Gallon (128 Fluid Ounces)
- 2 5 Gallons (320 Fluid Ounces)
- 266 Gallons (1000 Liters)

# ACCEPTED

SEP 27 2012

Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended, for  
the pesticide registered under

EPA Reg No 68173-4

[Back Panel]

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS & DOMESTIC ANIMALS**

Caution Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals Avoid contact with skin and clothing Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet Remove and wash contaminated clothing before reuse

<i>Optional Statements (EPA Category IV toxicity for acute oral, acute dermal, acute inhalation, eye irritation and dermal irritation)</i>	
<b>FIRST AID</b>	
<b>IF ON SKIN OR CLOTHING</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing</li> <li>• Rinse skin immediately with plenty of water for 15 20 minutes</li> <li>• Call a poison control center or doctor for treatment advice</li> </ul>
<b>IF IN EYES</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 20 minutes</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye</li> <li>• Call a poison control center or doctor for further treatment advice</li> </ul>
<b>IF SWALLOWED</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice</li> <li>• Have person sip a glass of water if able to swallow</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor</li> <li>• Do not give anything to an unconscious person</li> </ul>
<b>IF INHALED</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible</li> <li>• Call a poison control center or doctor for further treatment advice</li> </ul>
<b>HOTLINE NUMBERS</b>	
<i>Have the product container or label with you when calling a poison control center or doctor, or going for treatment FOR 24 HOUR EMERGENCY MEDICAL ASSISTANCE, call 1 800 255 3924</i>	

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

- All mixers, loaders, applicators and other handlers must wear
- Long sleeved shirt and long pants;
  - Socks,
  - Shoes, and
  - Chemical resistant gloves

Follow manufacturer's instructions for cleaning and maintaining PPE If no instructions are available, use detergent and hot water for washables Keep and wash PPE separately from other laundry When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides, the handler PPE requirements may be reduced or modified as specified in the WPS

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### USER SAFETY RECOMMENDATIONS

Users should

- Remove clothing/PPE immediately if pesticides get inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### ENVIRONMENTAL HAZARDS

*[For 1 liter, 1 gallon and 2.5 gallon containers ]*

For terrestrial use. This pesticide is moderately toxic to aquatic invertebrates and fish. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate. Do not allow runoff into lakes, streams, ponds or public waterways. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Observe the most restrictive labeling limitations and precautions of all products used in mixtures.

*[For 1000 liter container ]*

For terrestrial use. This pesticide is moderately toxic to aquatic invertebrates and fish. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate. Do not allow runoff into lakes, streams, ponds or public waterways. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Observe the most restrictive labeling limitations and precautions of all products used in mixtures. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

### GENERAL INFORMATION

VEGGIETURBO 5SC can be applied as a preventative or curative treatment in conjunction with good management practices.

VEGGIETURBO 5SC can be used alone or, when diseases not specified on this label are present or expected, in combination and/or rotation with other appropriately labeled fungicides as a tool for integrated disease management in labeled agricultural crops. See "Mixing and Handling Instructions" below for additional information.

**Preharvest Interval (PHI) = 0 days** VEGGIETURBO 5SC is exempt from the requirement for residue tolerance and therefore can be applied up to and including the day of harvest.

**RESISTANCE MANAGEMENT RECOMMENDATIONS**

VEGGIETURBO 55C contains a fungicide classified in FRAC target site of action Group 19 Fungal isolates with acquired resistance to Group 19 may eventually dominate the fungal population if Group 19 fungicides are used repeatedly in the same field or in successive years as the primary method of control for targeted species This may result in partial or total loss of control of those species by VEGGIETURBO 55C or other Group 19 Fungicides

The following actions may prevent or delay fungicide resistance

Avoid consecutive use of VEGGIETURBO 55C or other Group 19 fungicides against the same pathogens

- Use tank mixes or premixes with fungicides from different target site of action Groups Do this only with products that are registered for the same use and are effective at the tank mix or premix rate against the target pathogen(s)
- Use fungicides as part of a comprehensive Integrated Pest Management (IPM) program
- Monitor treated fungal populations for loss of field efficacy

Contact your local extension specialist, certified crop advisor, and/or manufacture representative for fungicide resistance management and/or IPM recommendations for specific crops and resistant pathogens

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling

For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation

Do not apply this product in a way that will contact workers or other persons, either directly or through drift Only protected handlers may be in the area during application

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard 40 CFR Part 170 This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses and handlers of agricultural pesticides It contains requirements for training, decontamination, notification, and emergency assistance It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry intervals The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours unless wearing appropriate PPE

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water is coveralls, socks, shoes, and chemical resistant gloves

Low rate (3.75 fl oz /acre) may be used for preventative applications before onset of visible disease, in periods of low disease pressure, or in a tank mix with other fungicides for resistance management. Use higher rates (6.5 to 13.0 fl oz /acre) when disease pressure is high, or in stand alone applications.

### MIXING AND APPLICATION INSTRUCTIONS

VEGGIETURBO 5SC may be applied by ground or aerial spray equipment, as a soil drench, or by chemigation through sprinklers or drip irrigation. See the table below for information on application methods and timing for specific crops and diseases.

For spray application, mix VEGGIETURBO 5SC in water and apply as a spray to foliage, fruit, or other above ground plant parts. For optimum control of labeled diseases, apply in sufficient volume of water to provide thorough coverage with minimal run off.

See "Chemigation Instructions" below for information about applying VEGGIETURBO 5SC through irrigation systems.

*[For 1 quart, 1 gallon and 2.5 gallon containers ]*

*Mixing instructions for VEGGIETURBO 5SC*

- *Shake well before use*
- *Fill tank with water to 1/2 of the intended final volume*
- *Start agitation of the spray tank*
- *Add the appropriate amount of product to the tank according to the rates in this label*
- *Agitate to ensure thorough mixing while adding the remaining required water*  
*Do not allow the mixture to stand without agitation*
- *Mix only the amount of solution needed to treat the desired area*

*[For 1000 Liter container ]*

*Thoroughly agitate product when product is in use*

When tank mixing VEGGIETURBO 5SC with other products, observe all precautions and limitations on each separate product label.

When planning to mix this product with others, it is advisable to conduct a "jar test" to determine the physical compatibility of this product with the others. Using a quart jar, add the products (with agitation) to approximately one quart of water in the proportions they will appear in the final mixture. Add dry formulations first, followed by flowables, then emulsifiable concentrates like VEGGIETURBO 5SC last. After thorough mixing, allow this mixture to stand for 5 minutes. If the combination remains mixed or can be readily remixed, it is physically compatible. Once compatibility has been proven, use the same sequence for adding required ingredients to the tank.

To assess the potential for phytotoxicity, test tank mixtures on a small number of plants prior to more widespread application.

If more applications or shorter intervals than indicated in the table below are needed to maintain disease control, alternate VEGGIETURBO 5SC with other fungicides having different modes of action to avoid or slow development of pathogen resistance. See "Resistance Management Recommendations" above for more information.

Use of an adjuvant may enhance spray coverage of dense crop canopy, or plants that are difficult to

wet due to waxy or hairy surfaces Use only adjuvants that are labeled for such uses Refer to "Mixing and Application Instructions" above for information on testing physical compatibility of VEGGIETURBO 55C with other products

### BANDED (IN-FURROW) APPLICATION

Use the table below to determine the correct application rate in fluid ounces of product per 1,000 row feet based on row spacing and desired rate per acre Mix the required amount of VEGGIETURBO 55C in water and apply as banded spray (4" to 6" wide) or seedline drench centered over the planting furrow Apply to soil immediately before seeding or directly over seeds in the furrow just before they are covered with soil The volume of water required per acre or per 1,000 row feet will depend on the application equipment used Consult your local cooperative extension service if you need assistance calibrating band spraying equipment

**Rates for banded (in furrow) application** Find desired application rate in the left column Read across the line to the correct row spacing indicated at the top to find the number of fluid ounces per 1000 row feet that will provide the desired application rate per acre

Fluid oz per acre	Fluid ounces per 1000 row feet														
	Space between rows (inches)														
	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
<b>3 75</b>	0 09	0 10	0 11	0 13	0 14	0 16	0 17	0 19	0 20	0 22	0 23	0 24	0 26	0 27	0 29
<b>6 50</b>	0 15	0 17	0 20	0 22	0 25	0 27	0 30	0 32	0 35	0 37	0 40	0 42	0 45	0 47	0 50
<b>13 00</b>	0 30	0 35	0 40	0 45	0 50	0 55	0 60	0 65	0 70	0 75	0 80	0 85	0 90	0 95	0 99

### CHEMIGATION INSTRUCTIONS

#### GENERAL INFORMATION

- Apply this product through pressurized irrigation systems such as drip (trickle) irrigation (including micro irrigation through spaghetti tubes or individual tubes) or sprinkler irrigation (including impact or microsprinklers, microjet, overhead boom, water gun, solid set, lateral move, end tow, side roll, center pivot, or hand move, including mist type systems), or with hand held calibrated irrigation equipment (such as a hand held wand with injector) Do not apply this product through any other type of irrigation system
- Crop injury or lack of effectiveness can result from non uniform distribution of treated water
- If you have questions about calibration, contact State Extension Service specialists, equipment manufacturers or other experts
- Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place
- A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise
- Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year
- Chemigation systems connected to public water systems must contain a functional, reduced pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line

upstream from the point of pesticide introduction As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe

- The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection
- The pesticide injection pipeline must contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock  
Do not apply when wind speed favors drift beyond the area intended for treatment
- Remove scale, pesticide residues, and other foreign matter from the chemical supply tank and injector system and flush with clean water before use Failure to provide a clean tank, free of scale or residues may reduce effectiveness of this product

**DRIP (TRICKLE) AND MICRO-IRRIGATION CHEMIGATION**

- The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow
- The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump  
The pesticide injection pipeline must also contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down  
The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected
- Systems must use a metering pump such as a positive displacement injection pump (i.e., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock
- Dilute the product in water following the label mixing directions It may be premixed in a supply tank with water, fertilizer, or other appropriate tank mixed agricultural chemicals Agitation is necessary Apply to moderately moist soils Use volumes that thoroughly wet the soil but that do not cause significant runoff or excessive drip from pots Application should be continuous in sufficient water to apply the recommended rate evenly to the entire treated area



**SPRINKLER CHEMIGATION**

- The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow
- The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops  
The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected
- Systems must use a metering pump, such as a positive displacement injection pump (i.e., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock
- Dilute the product in water following the label mixing directions. It may be premixed in a supply tank with water, fertilizer or other appropriate tank mixed agricultural chemicals. Agitation is necessary. Apply to moderately moist soils. Use volumes that thoroughly wet the soil but that do not cause significant runoff or excessive drip from pots. Application should be continuous in sufficient water to apply the recommended rate evenly to the entire treated area
- Do not apply when wind speed favors drift beyond the area intended for treatment

**CROPS, DISEASES AND APPLICATION RATES**

ARTICHOKES (Chinese and Jerusalem)		
DISEASES/PATHOGENS	RATES	ADDITIONAL INFORMATION
Gray mold/Botrytis rot ( <i>Botrytis cinerea</i> )	3.75 - 13.0 fl oz /acre (0.21 - 0.72 oz a.i. /acre)	Begin applications at first sign of disease symptoms and repeat on 7-14 day interval as long as conditions favor disease development
Powdery mildew ( <i>Leveillula taurica</i> , <i>Erysiphe cichoracearum</i> )	Do not apply more than 4.2 oz a.i./acre/season (6 appl. at max. rate)	Apply as a foliar spray in sufficient water to achieve thorough coverage of all above ground plant parts. May also be applied through overhead sprinkler irrigation. See "Chemigation Instructions" for additional information.

<b>BERRIES AND SMALL FRUITS</b>		
<p>Amur river grape, Aronia berry, Bayberry, Bearberry, Bilberry, Blackberry, Blueberry, Buffalo currant, Buffaloberry, Che, Chilean Guava, Chokecherry, Cloudberry, Cranberry, Currant (red and black), Elderberry, European barberry, Gooseberry, Highbush cranberry, Honeysuckle (edible), Huckleberry, Jostaberry, Juneberry, Kiwi (fuzzy and hardy), Loganberry, Maypop, Mountain pepper berries, Mulberry, Muntries, Native currant, Partridgeberry, Phalsa, Pincherry, Raspberry (black and red), Riberry, Salal, Schisandra berry, Sea buckthorn, Serviceberry, Strawberry, Wild raspberries, Cultivars, varieties, and/or hybrids of these            (See separate table for grapes )</p>		
DISEASES/PATHOGENS	RATES	ADDITIONAL INFORMATION
<p><i>Alternaria</i> leaf spot and fruit rot            (<i>Alternaria</i> spp )</p>	<p>3.75 - 13.0 fl oz /acre            (0.21 - 0.72 oz a /acre)</p>	<p>Apply as a foliar spray in sufficient water to provide thorough coverage. Can also be applied through overhead sprinkler irrigation. See "Chemigation Instructions" for additional information.</p> <p>Begin as a preventative application and continue on a 7-14 day interval as needed to maintain control. For control of <i>Botrytis</i> and other fruit diseases, begin applications at flowering.</p>
<p>Anthracnose leaf &amp; fruit rot            (<i>Colletotrichum</i> spp )*</p>	<p>Do not apply more than 4.2 oz a /acre/season            (6 appl at max rate)</p>	
<p>Gray mold/fruit rot/<i>Botrytis</i> blight            (<i>Botrytis cinerea</i>)</p>		
<p>Powdery mildew            (<i>Sphaerotheca macularis</i>,  <i>Erysiphe</i> spp )</p>		
<p>* Suppression only. A rate of 6.5 fl oz /acre may be used for preventative applications before onset of visible disease, in periods of low disease pressure, or in a tank mix with other fungicides for resistance management. Otherwise, use a rate of 13.0 fl oz /acre.</p>		

BRASSICA (COLE) LEAFY VEGETABLES		
Broccoli, Broccoli raab, Brussels Sprouts, Cabbage, Chinese broccoli, Chinese Cabbage (Bok Choi, Napa, Gai choy), Cauliflower, Cavalo broccolo, Collards, Kale, Kohlrabi, Mizuna, Mustard Greens, Mustard spinach, Rape greens		
DISEASES/PATHOGENS	RATES	ADDITIONAL INFORMATION
<b>Alternaria leaf spot</b> ( <i>Alternaria</i> spp )  <b>Anthracnose</b> ( <i>Colletotrichum</i> spp )  <b>Gray mold</b> ( <i>Botrytis cinerea</i> )  <b>White spot</b> ( <i>Cercospora</i> spp )	3.75 - 13.0 fl oz /acre (0.21 - 0.72 oz a.i. /acre)  Do not apply more than 4.2 oz a.i. /acre/season (6 appl at max rate)	Apply as a foliar spray in sufficient water to attain thorough coverage. Use of an adjuvant may enhance spray coverage, especially of waxy leaves.  Begin preventive sprays when conditions favor disease development, and continue on a 7-14 day spray interval as needed.
<b>Bottom rot</b> ( <i>Rhizoctonia solani</i> )  <b>Sclerotinia rot</b> ( <i>Sclerotinia sclerotiorum</i> )		Apply in 30-50 gallons of water per acre as a directed spray toward soil surface and lower leaves.  Begin applications at head formation, before leaves contact the ground. Repeat every 7-14 days as needed to maintain control.

BULB VEGETABLES		
Chive, Daylily, Elegans hosta, Fritillaria, Garlic, Kurrat, Lady's leek, Leek, Lily, Onion, Shallot, Cultivars, varieties, and/or hybrids of these		
DISEASES/PATHOGENS	RATES	ADDITIONAL INFORMATION
<b>Alternaria blight and Purple blotch</b> ( <i>Alternaria</i> spp )  <b>Botrytis leaf blight /Leaf spot/Neck rot</b> ( <i>Botrytis</i> spp )  <b>Downy mildew</b> ( <i>Peronospora</i> spp )*  <b>Rust</b> ( <i>Puccinia allii</i> or <i>Puccinia porri</i> )	3.75 - 13.0 fl oz /acre (0.21 - 0.72 oz a.i. /acre)  Do not apply more than 4.2 oz a.i. /acre/season (6 appl at max rate)	Apply as foliar preventative spray (ground, aerial, or through overhead sprinklers) before disease onset and continue at 7-14 day intervals as needed to maintain control.  Coverage may be enhanced by use of a spray adjuvant.
* Suppression only. A rate of 6.5 fl oz /acre may be used for preventative applications before onset of visible disease, in periods of low disease pressure, or in a tank mix with other fungicides for resistance management. Otherwise, use a rate of 13.0 fl oz /acre.		

CARROTS and PARSNIPS		
DISEASES/PATHOGENS	RATES	ADDITIONAL INFORMATION
<b>Alternaria leaf blight</b> <i>(Alternaria dauci)</i>	3.75 - 13.0 fl oz /acre (0.21 - 0.72 oz a.i. /acre)	Begin applications soon after plant emergence and repeat on 7-14 day interval as long as conditions favor disease development
<b>Cercospora leaf blight</b> <i>(Cercospora carotae)</i>	Do not apply more than	Apply as a foliar spray in sufficient water to achieve thorough coverage of all above ground plant parts. May also be applied through overhead sprinkler irrigation. See "Chemigation Instructions" for additional information.
<b>Powdery mildew</b> <i>(Erysiphe polygoni)</i>	4.2 oz a.i. /acre/season (6 appl. at max rate)	
<b>Rhizoctonia crown rot and leaf blight</b> <i>(Rhizoctonia solani)</i>		

CITRUS FRUITS		
Calamondin, Citron, Citrus hybrids (Chironja, Tangelo, Tangor), Clementine, Grapefruit, Kumquat, Lemon, Lime, Mandarin (Tangerine), Orange, Pummelo, Satsuma mandarin		
DISEASES/PATHOGENS	RATES	ADDITIONAL INFORMATION
<b>Alternaria brown spot</b> <i>(Alternaria alternata)</i>	3.75 - 13.0 fl oz /acre (0.21 - 0.72 oz a.i. /acre)	Apply as preventative foliar spray before disease development, when spring flush is 1/4 to 1/2 expanded. If needed, make second application to fully expanded flush.
<b>Botrytis rot</b> <i>(Botrytis cinerea)</i>	Do not apply more than	Begin preventative applications during bloom when rain or fog is expected. Repeat every 7-14 days as long as conditions favoring disease persist.
<b>Septoria spot</b> <i>(Septoria citri)</i>	4.2 oz a.i. /acre/season (6 appl. at max rate)	
		Apply as a preventative spray in late fall or early winter, just before or after the first rain. Additional applications may be necessary during seasons of heavy rainfall.

<b>CUCURBIT VEGETABLES</b>		
Chayote (fruit), Chinese waxgourd (Chinese preserving melon), Citron melon, Cucumber, Gherkin, Gourd (edible, including hyotan, cucuzza, hechima, Chinese okra), <i>Momordica</i> spp (includes balsam apple, balsam pear, bitter melon, Chinese cucumber), Muskmelon (includes true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon), Pumpkin, Squash (including acorn squash, butternut squash, calabaza, crookneck squash, hubbard squash, scallop squash, spaghetti squash, straightneck squash, vegetable marrow, zucchini), Watermelon, Hybrids and varieties of these		
DISEASES/PATHOGENS	RATES	ADDITIONAL INFORMATION
<b>Anthracnose</b> ( <i>Colletotrichum orbiculare</i> )	3 75 13 0 fl oz /acre (0 21 0 72 oz a 1 /acre)	Mix in sufficient volume of water for good spray coverage (typically 50 100 gallons per acre)
<b>Early blight</b> ( <i>Alternaria</i> sp )	Do not apply more than 4 2 oz a 1 /acre/season (6 appl at max rate)	Begin preventive sprays when conditions favor disease development, and continue on a 7 14 day spray interval as needed
<b>Gray mold</b> ( <i>Botrytis</i> sp )		
<b>Gummy stem blight</b> ( <i>Didymella bryoniae</i> and <i>Phoma cucurbitacearum</i> )		
<b>Powdery mildew</b> ( <i>Erysiphe</i> and <i>Sphaerotheca</i> spp and <i>Podosphaera xanthii</i> )		
<b>Scab</b> ( <i>Cladosporium</i> sp )		
<b>Target leaf spot/Corynespora leaf spot/ Corynespora blight</b> ( <i>Corynespora crassicola</i> )		
<b>Southern blight</b> ( <i>Sclerotium rolfsii</i> )		See additional instructions under BANDED (IN FURROW) APPLICATION  Can also be applied through surface (not buried) drip or overhead sprinkler irrigation See "Chemigation Instructions" for additional information  Make subsequent applications at 7 14 day intervals either through surface drip or overhead sprinkler irrigation, or as a spray/drench directed at the base of each plant

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FRUITING VEGETABLES		
Eggplant, Groundcherry, Peppers (all types), Tomatillo, Tomatoes (all types)		
DISEASES/PATHOGENS	RATES	ADDITIONAL INFORMATION
<b>Anthracnose</b> ( <i>Colletotrichum</i> spp )*  <b>Early blight</b> ( <i>Alternaria solani</i> )  <b>Gray mold/Botrytis rot</b> ( <i>Botrytis</i> spp )  <b>Late blight*</b> ( <i>Phytophthora infestans</i> )  <b>Leaf mold</b> ( <i>Fulvia (Cladosporium) fulvum</i> , also known as <i>Passalora fulva</i> )  <b>Powdery mildew</b> ( <i>Leveillula, Oidiopsis, Erysiphe, and Sphaerotheca</i> spp )	3.75 - 13.0 fl oz /acre (0.21 - 0.72 oz a.i. /acre)  Do not apply more than 4.2 oz a.i. /acre/season (6 appl. at max rate)	Apply as a preventative foliar spray when conditions favor disease development. Repeat application at 7-14 day intervals as needed during infection periods. Mix in sufficient water to attain thorough coverage of foliage and fruit (if present).
<b>Southern blight</b> ( <i>Sclerotium rolfsii</i> )*  <b>Verticillium wilt</b> ( <i>Verticillium dahliae</i> )*		See additional instructions under BANDED (IN FURROW) APPLICATION.  Can also be applied through surface (not buried) drip or overhead sprinkler irrigation. See "Chemigation Instructions" for additional information.  Make subsequent applications at 7-14 day intervals either through surface drip or overhead sprinkler irrigation, or as a spray/drench directed at the base of each plant.
* Suppression only. A rate of 6.5 fl oz /acre may be used for preventative applications before onset of visible disease, in periods of low disease pressure, or in a tank mix with other fungicides for resistance management. Otherwise, use a rate of 13.0 fl oz /acre.		

GINSENG		
DISEASES/PATHOGENS	RATES	ADDITIONAL INFORMATION
<b>Alternaria blight</b> <i>(Alternaria panax)</i>  <b>Botrytis blight</b> <i>(Botrytis cinerea)</i>	3.75 - 13.0 fl oz /acre (0.21 - 0.72 oz a.i. /acre)  Do not apply more than 4.2 oz a.i. /acre/season (6 appl. at max rate)	Apply as foliar spray every 7 - 10 days beginning within 2 weeks after plant emergence, prior to disease development (consult local extension service for advice on timing against these diseases). Continue throughout the season as needed to maintain control.
<b>Cylindrocarpon root rot</b> <i>(Cylindrocarpon destructans)</i>  <b>Rhizoctonia root and crown rot</b> <i>(Rhizoctonia solani)</i>		Apply as soil drench every 14 - 28 days, beginning within 2 weeks after plant emergence.

GRAPES		
For pre-harvest use on all grapes		
DISEASES/PATHOGENS	RATES	ADDITIONAL INFORMATION
<b>Gray mold/bunch rot</b> <i>(Botrytis cinerea)</i>  <b>Powdery mildew</b> <i>(Erysiphe (Uncinula) necator)</i>	3.75 - 13.0 fl oz /acre (0.21 - 0.72 oz a.i. /acre)  Do not apply more than 4.2 oz a.i. /acre/season (6 appl. at max rate)	For powdery mildew, begin as a preventative spray and repeat every 14 days as needed to maintain control.  For <i>Botrytis</i> bunch rot, apply at veraison and 7 days before harvest.



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LEAFY VEGETABLES		
Amaranth, Arugula (garden rocket), Asparagus chichory, Beet greens (spinach beet), Borage, Catalogna, Celery, Chard, Chaya, Chicory, Colocasia, Corn salad (mâche), Dandelion, Endive, Escarole, Fenugreek, Garden cress, Ground elder, Kailan, Lettuce (Head, Leaf, Iceberg, Romaine), Mizuna, Purslane, Radichetta, Radicchio, Sorrel, Spinach, Spinach beet (beet greens), Spring greens (Spring mix), Stinging nettle, Tatsoi, Tropaeolum ( <i>Nasturtium</i> ), Turnip greens, Watercress ( <i>Nasturtium</i> ), Water spinach (ong choy), Yarrow		
DISEASES/PATHOGENS	RATES	ADDITIONAL INFORMATION
<b>Alternaria leaf spot</b> ( <i>Alternaria</i> spp )  <b>Downy mildew</b> ( <i>Bremia lactucae</i> and <i>Peronospora</i> spp )*  <b>Powdery mildew</b> ( <i>Golovinomyces (Erysiphe) cichoracearum</i> )	3.75 - 13.0 fl oz /acre (0.21 - 0.72 oz a l /acre)  Do not apply more than 4.2 oz a l /acre/season (6 appl at max rate)	Begin applications soon after plant emergence or transplanting and repeat on 7-14 day interval as long as conditions favor disease development  Apply as a foliar spray in sufficient water to achieve thorough coverage of all above ground plant parts. May also be applied through overhead sprinkler irrigation. See "Chemigation Instructions" for additional information.
<b>Botrytis damping off</b> ( <i>Botrytis</i> spp )		Apply as banded spray (4-6" wide) over the seed furrow at planting or transplanting. See additional instructions under BANDED (IN FURROW) APPLICATION.
<b>Botrytis leaf blight, Botrytis rot</b> ( <i>Botrytis</i> spp )		Begin preventative foliar applications when conditions favor disease development and continue at 7-14 day intervals as long as needed to maintain control.
<b>Bottom rot</b> ( <i>Rhizoctonia solani</i> )		Apply in 30-50 gallons of water per acre as a directed spray toward soil surface and lower leaves.  Begin applications at head formation, before leaves contact the ground. Repeat every 7-14 days as needed to maintain control.
<b>Lettuce drop</b> ( <i>Sclerotinia</i> spp )		Apply in 30-50 gallons of water per acre as a directed spray toward soil surface and lower leaves.  Make first application to direct seeded lettuce immediately after emergence. For transplanted lettuce, make first application immediately after transplanting. In both cases, apply prior to disease development. Apply again if soil is disturbed by cultivation or thinning and conditions continue to favor disease development.
* Suppression only. A rate of 6.5 fl oz /acre may be used for preventative applications before onset of visible disease, in periods of low disease pressure, or in a tank mix with other fungicides for resistance management. Otherwise, use a rate of 13.0 fl oz /acre.		



LEGUME VEGETABLES		
Bean ( <i>Lupines spp</i> ), Bean ( <i>Phaseolus spp</i> , including Field bean, Kidney bean, Lima bean, Navy bean, Pinto bean, Runner bean, Snap bean, Tepary bean, Wax bean), Bean ( <i>Vigna spp</i> , including Adzuki bean, Asparagus bean, Blackeyed pea, Catjang, Chinese longbean, Cowpea, Crowder pea, Moth bean, Mung bean, Southern pea, Urd bean, Yardlong bean) Broad bean ( <i>Fava bean</i> ), Chickpea ( <i>Garbanzo bean</i> ), Guar, Jackbean, Lablab bean ( <i>hyacinth bean</i> ), Lentil, Pea ( <i>Pisum spp</i> , including Dwarf pea, Edible pod pea, English pea, Field pea, Garden pea, Green pea, Snow pea, Sugar snap pea), Pigeon pea, Soybean, Sward bean		
DISEASES/PATHOGENS	RATES	ADDITIONAL INFORMATION
Asian Soybean Rust ( <i>Phakopsora pachyrhizi</i> )	3.75 - 13.0 fl oz /acre (0.21 - 0.72 oz a.i. /acre)	Begin applications at first sign of disease symptoms and repeat on 7-14 day interval as long as conditions favor disease development
Gray mold ( <i>Botrytis cinerea</i> )	Do not apply more than 4.2 oz a.i. /acre/season (6 appl at max rate)	Apply as a foliar spray in sufficient water to achieve thorough coverage of all above ground plant parts. May also be applied through overhead sprinkler irrigation. See "Chemigation Instructions" for additional information.
Powdery mildew ( <i>Erysiphe pisi</i> )		
Stem rot / White mold ( <i>Sclerotinia sclerotiorum</i> )		Apply in 30-50 gallons of water per acre as a directed spray toward soil surface, lower leaves, and stems. May also be applied through overhead sprinkler irrigation. See "Chemigation Instructions" for additional information.

POME FRUITS		
Apple, Crabapple, Loquat, Mayhaw, Pear, Quince		
DISEASES/PATHOGENS	RATES	ADDITIONAL INFORMATION
<b>Alternaria leaf spot</b> <i>(Alternaria mali)</i>	3.75 - 13.0 fl oz /acre (0.21 - 0.72 oz a.i. /acre)	Apply as foliar spray in sufficient water to attain thorough coverage of foliage and fruit
<b>Leaf blotch</b> <i>(Diplocarpon mali)</i>	Do not apply more than 4.2 oz a.i. /acre/season (6 appl. at max rate)	For powdery mildew control, begin as preventative and repeat on 7-14 day interval as needed. Use in an alternating program with a sterol inhibitor (DMI) fungicide.
<b>Powdery mildew</b> <i>(Podosphaera leucotricha,</i> <i>Phyllactinia mali)</i>		For scab suppression, begin sprays at green tip and continue every 7-10 days as needed.
<b>Scab</b> <i>(Venturia spp.)*</i>		
* Suppression only. A rate of 6.5 fl oz /acre may be used for preventative applications before onset of visible disease, in periods of low disease pressure, or in a tank mix with other fungicides for resistance management. Otherwise, use a rate of 13.0 fl oz /acre.		

POTATOES		
DISEASES/PATHOGENS	RATES	ADDITIONAL INFORMATION
<b>Black scurf</b> <i>(Rhizoctonia solani)</i>	3.75 - 13.0 fl oz /acre (0.21 - 0.72 oz a.i. /acre)	Apply as banded spray in furrow at planting, either just before placement of seed pieces or over seed pieces before covering with soil. See additional instructions under BANDED (IN FURROW) APPLICATION.
<b>Early blight</b> <i>(Alternaria solani)</i>	Do not apply more than 4.2 oz a.i. /acre/season (6 appl. at max rate)	Apply as a foliar spray in sufficient water to provide thorough coverage of all foliage. May also be applied through overhead sprinkler irrigation. See "Chemigation Instructions" for additional information. Begin as a preventative application and continue on a 7-14 day interval as needed to maintain control.
<b>Late blight</b> <i>(Phytophthora infestans)*</i>		
<b>White mold</b> <i>(Sclerotinia sclerotiorum)</i>		Apply in 30-50 gallons of water per acre as a directed spray toward soil surface, lower leaves, and stems. May also be applied through overhead sprinkler irrigation. See "Chemigation Instructions" for additional information.
* Suppression only. A rate of 6.5 fl oz /acre may be used for preventative applications before onset of visible disease, in periods of low disease pressure, or in a tank mix with other fungicides for resistance management. Otherwise, use a rate of 13.0 fl oz /acre.		

STONE FRUITS		
Apricot, Cherry, Nectarine, Peach, Plum, Plumcot, Prune (fresh), and hybrids		
DISEASES/PATHOGENS	RATES	ADDITIONAL INFORMATION
<b>Botrytis blossom blight</b> <i>(Botrytis cinerea)</i>	3.75 - 13.0 fl oz /acre (0.21 - 0.72 oz a.i. /acre)	Apply as foliar spray in sufficient water to attain thorough coverage of foliage and fruit
<b>Powdery mildew</b> <i>(Podosphaera spp ,            Sphaerotheca pannosa)</i>	Do not apply more than 4.2 oz a.i. /acre/season (6 appl. at max rate)	For powdery mildew control, begin as preventative and repeat on 7-14 day interval as needed. Use in an alternating program with a sterol inhibitor (DMI) fungicide.  Apply at full bloom for control of <i>Botrytis</i> blossom blight if wet weather occurs during bloom.

SUGAR BEET		
DISEASES/PATHOGENS	RATES	ADDITIONAL INFORMATION
<b>Cercospora leaf spot</b> <i>(Cercospora beticola)</i>	3.75 - 13.0 fl oz /acre (0.21 - 0.72 oz a.i. /acre)	Begin applications at first sign of disease symptoms and repeat on 7-14 day interval as long as conditions favor disease development. Apply as a foliar spray in sufficient water to achieve thorough coverage of all above-ground plant parts. May also be applied through overhead sprinkler irrigation. See "Chemigation Instructions" for additional information.
<b>Rhizoctonia crown and root rot</b> <i>(Rhizoctonia solani)</i>	Do not apply more than 4.2 oz a.i. /acre/season (6 appl. at max rate)	Apply as banded spray or drench in seed furrow at planting. See additional instructions below for banded application rates.  Can also be applied through overhead sprinkler irrigation. See "Chemigation Instructions" for additional information. Make subsequent applications at 7-14 day intervals either through chemigation, or as a spray/drench directed at the base of each plant.

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### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal

**PESTICIDE STORAGE** Store in dry place away from food or feed

**PESTICIDE DISPOSAL** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility

**CONTAINER HANDLING** Nonrefillable container Do not reuse or refill this container Completely empty container into application equipment Triple rinse (or equivalent) Then offer for recycling or reconditioning (if available), or puncture and dispose of in a sanitary landfill or by incineration, if allowed by State and local authorities If burned, stay out of smoke

### WARRANTY

Kaken Pharmaceutical Co , Ltd warrants that the material contained herein conforms to the description on the label and is reasonably fit for the purpose referred to in the directions for use Timing and method of application, weather, watering practices, nature of soil, the disease problem, condition of the crop, incompatibility with other influencing factors in the use of this product are beyond the control of the seller Buyer assumes all risks of use, storage, or handling of this material not in strict accordance with directions given herein TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, NO OTHER EXPRESSED OR IMPLIED WARRANTY OF THE FITNESS OR MERCHANTABILITY IS MADE

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