

Polyoxin D Zinc Salt 5SC Fungicide

Suspension Concentrate

Non-Conventional Fungicide for Control or Suppression of Fungal Diseases in
Outdoor-Grown and Greenhouse-Grown Fruit and Vegetable Crops
and Greenhouse-Grown Ornamentals

COMMERCIAL

READ THE LABEL AND BROCHURE BEFORE USING

KEEP OUT OF REACH OF CHILDREN

POTENTIAL SKIN SENSITIZER

REGISTRATION NUMBER 32688 PEST CONTROL PRODUCTS ACT

ACTIVE INGREDIENT:
POLYOXIN D ZINC SALT . . . 5.0%
Warning, contains the allergen soy

NET CONTENTS: 1.0 LITRE TO 1000 LITRES

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

CANADIAN AGENT:
CRW Regulatory Services Inc.
P. O. Box 544, 1001 Queens Street, Chester, Nova Scotia, B0J 1J0 Canada
902-401-7209

SHAKE WELL BEFORE USE.

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. Potential skin sensitizer. 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.

Do not enter or allow worker entry into treated areas until sprays have dried (restricted entry interval) unless wearing appropriate personal protective equipment (PPE).

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.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

The PPE required for early entry to treated areas that involves contact with anything that has been treated, such as plants, soil or water is: coveralls, socks, shoes, and chemical-resistant gloves.

All mixers, loaders, applicators and other handlers must wear:

- Long-sleeved shirt and long pants;
- Socks;
- Shoes; and
- Chemical-resistant gloves.

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.

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.

ENVIRONMENTAL PRECAUTIONS:

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.

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 center or doctor for 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 center 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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.

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2021-01-17

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 center or doctor for further treatment advice.

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

TOXICOLOGICAL INFORMATION:

Treat symptomatically.

IN CASE OF EMERGENCY INVOLVING A POISONING OR MAJOR SPILL CALL 1-866-336-2983
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STORAGE:

To prevent contamination, store this product in the original container in a dry location away from food or feed.

DISPOSAL:

For 1 litre container:

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-rinse or pressure-rinse the empty container. Dispose of the rinsings in accordance with provincial requirements.
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, or in the case of a spill or spill clean-up, contact the manufacturer or the provincial regulatory agency.

For 1000 litre container:

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.
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- Make the empty container unsuitable for further use.
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- 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:

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.

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 S572.1) coarse classification. Boom height must be 60 cm or less above the crop or ground.

DO NOT apply using aerial application equipment.

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GENERAL INFORMATION:

Polyoxin D Zinc Salt 5SC Fungicide can be applied to outdoor-grown and greenhouse-grown fruit and vegetable crops and greenhouse-grown ornamentals as a preventative or in some cases (see directions for use under each crop/disease table) a curative treatment of plant diseases in conjunction with good management practices.

Low rates may be used for preventative applications before onset of visible disease, or in periods of low disease pressure. Use higher rates and shorter intervals when disease pressure is high.

Polyoxin D Zinc Salt 5SC Fungicide can be applied up to and including the day of harvest. Pre-Harvest Interval (PHI) = 0 days.

MIXING AND APPLICATION INSTRUCTIONS:

Polyoxin D Zinc Salt 5SC Fungicide may be applied in a greenhouse or outdoors using ground spray equipment. DO NOT apply using aerial application equipment. See the table below for information on application methods and timing for specific crops and diseases. Mix Polyoxin D Zinc Salt 5SC Fungicide 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.

MIXING:

Mixing instructions for Polyoxin D Zinc Salt 5SC Fungicide:

1. Shake well before use.
2. Fill tank with water to $\frac{1}{2}$ of the intended final volume.
3. Start agitation of the spray tank.
4. Add the appropriate amount of product to the tank according to the rates in this label.
5. Agitate to ensure thorough mixing while adding the remaining required water.
6. Do not allow the mixture to stand without agitation.
7. Mix only the amount of solution needed to treat the desired area.

CROPS, DISEASES AND APPLICATION RATES:

Listed Root and Tuber Vegetables			
Crop	Disease	Application Rate	Application Instructions
Ginseng	Botrytis blight (<i>Botrytis cinerea</i>) (Control)	611 - 1222 mL/1000 L (33 - 66 g a.i./1000 L)	<ul style="list-style-type: none"> Apply as a foliar spray to provide thorough coverage of foliage. Begin as a preventative application when conditions favour disease development and continue on a 7 day interval to maintain control. Do not apply more than 3 applications per season or 12 months. PHI = 0 days.
Potato	Early blight (<i>Alternaria solani</i>) (Suppression)	537 - 926 mL/ha (29 - 50 g a.i./ha)	<ul style="list-style-type: none"> Apply as a foliar spray in sufficient water to provide thorough coverage of foliage. Begin as a preventative application when conditions favour disease development and continue on a 7-14 day interval to maintain suppression. Do not apply more than 150 g a.i./ha/season. PHI = 0 days.

Listed Leafy Vegetables			
Crop	Disease	Application Rate	Application Instructions
Lettuce (Head and Leaf) (Field and Greenhouse)	Downy mildew (<i>Bremia lactucae</i>) (Suppression)	463 - 926 mL/ha (25 - 50 g a.i./ha)	<ul style="list-style-type: none"> Apply as a foliar spray in sufficient water to provide thorough coverage of foliage. Begin as a preventative application when conditions favour disease development and continue on a 7-14 day interval to maintain suppression. Do not apply more than 150 g a.i./ha/season or 12 months. PHI = 0 days.
Spinach	White rust (<i>Albugo occidentalis</i>) (Suppression)	463 mL/ha (25 g a.i./ha)	

Fruiting Vegetables (Crop Group 8-09)			
Crop	Disease	Application Rate	Application Instructions
Fruiting Vegetables (all types) (Field and Greenhouse)	Botrytis blight Grey Mold (<i>Botrytis cinerea</i>) (Suppression)	463 - 926 mL/ha (25 - 50 g a.i./ha)	<ul style="list-style-type: none"> Apply as a foliar spray in sufficient water to provide thorough coverage of foliage (and fruit when present). For <i>Botrytis blight and Grey mold</i>, begin as a preventative application when conditions favour disease development and continue on a 7-10 day interval to maintain suppression. For <i>Early blight</i>, begin as a preventative application when conditions favour disease development and continue on a 7-14 day interval to maintain suppression. For <i>Powdery mildew</i>, begin as a preventative application when conditions favour disease development and continue on a 7-14 day interval to maintain control. Do not apply more than 150 g a.i./ha/season or 12 months. PHI = 0 days. Use high rate under conditions of high disease pressure.
	Early blight* (<i>Alternaria solani</i>) (Suppression)	537 - 926 mL/ha (29 - 50 g a.i./ha)	
Tomatoes (all types) (Greenhouse)	Powdery mildew (<i>Oidium neolycopersici</i>) (Control)	278 - 926 mL/ha (15 - 50 g a.i./ha)	
<p>Fruiting Vegetables (Crop Group 8-09) : African eggplant, Bush tomato, Cocona, Currant tomato, Eggplant, Garden huckleberry, Goji berry, Ground cherry, Martynia, Naranjilla, Okra, Pea eggplant, Pepino, Pepper, bell; Pepper, non-bell; Roselle, Scarlet eggplant, Sunberry, Tomatillo, Tomato, Tree tomato, Cultivars, varieties or hybrids of these.</p> <p>* Early blight is not known to infect martynia, naranilla, okra, or roselle.</p>			

Cucurbit Vegetables (Crop Group 9)			
Crop	Disease	Application Rate	Application Instructions
Cucurbit Vegetables (Field and Greenhouse)	Anthracnose (<i>Colletotrichum orbiculare</i>) (Control)	463 - 926 mL/ha (25 - 50 g a.i./ha)	<ul style="list-style-type: none"> Apply as a foliar spray in sufficient water to provide thorough coverage of foliage (and fruit when present). Begin as a preventative application when conditions favour disease development. For Anthracnose, continue on a 7-10 day interval to maintain control. For Downy mildew, continue on a 5-8 day interval to maintain suppression. For Gummy stem blight, continue on a 7-14 day interval to maintain suppression. For Powdery mildew, continue on a 7-14 day interval to maintain control. When powdery mildew is present, suppression is provided. Do not apply more than 150 g a.i./ha/ season or 12 months. PHI = 0 days.
	Downy mildew (<i>Pseudoperonospora cubensis</i>) (Suppression)		
	Gummy stem blight (<i>Didymella bryoniae</i>) (Suppression)		
	Powdery mildew (<i>Podosphaera xanthii</i>) (Control)		
<p>Cucurbit Vegetables (Crop Group 9) : 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, and Hybrids and varieties of these.</p>			

Listed Pome Fruits			
Crop	Disease	Application Rate	Application Instructions
Pome Fruits	Powdery mildew (<i>Podosphaera leucotricha</i> , <i>P. clandestina</i>) (Suppression)	259 - 926 mL/ha (14 - 50 g a.i./ha)	<ul style="list-style-type: none"> Apply as a foliar spray in sufficient water to provide thorough coverage of foliage (and fruit when present). Begin as a preventative application when conditions favour disease development and continue on a 7-14 day interval to maintain suppression. Do not apply more than 150 g a.i./ha/season. PHI = 0 days.
<p>Pome Fruits : Apple, Crabapple, Mayhaw, Pear; Pear, Asian; Quince; Quince, Chinese; Quince, Japanese; Cultivars, varieties and/or hybrids of these.</p>			

Berries and Small Fruits (Crop Group 13-07)			
Crop	Disease	Application Rate	Application Instructions
Berries and Small Fruits, <u>excluding</u> Grapes and Strawberries (See listed crops below.)	Botrytis blight, Grey mold <i>(Botrytis cinerea)</i> (Suppression)	463 - 926 mL/ha (25 - 50 g a.i./ha)	<ul style="list-style-type: none"> • Apply as a foliar spray in sufficient water to provide thorough coverage of foliage (and fruit when present). • Begin as a preventative application when conditions favour disease development and continue on a 7-10 day interval to maintain suppression. • Do not apply more than 150 g a.i./ha/season or 12 months. • May be used in greenhouses. • PHI = 0 days.
Blackberry, Loganberry, Raspberry (red, black, and wild), cultivars, varieties, and/or hybrids of these.	Powdery mildew <i>(Podosphaera aphanis)</i> (Control)	926 mL/ha (50 g a.i./ha)	<ul style="list-style-type: none"> • Apply as a foliar spray in sufficient water to provide thorough coverage of foliage (and fruit when present). • Begin as a preventative application when conditions favour disease development and continue on a 7-14 day interval to maintain control. • Do not apply more than 150 g a.i./ha/season • PHI = 0 days.
Blueberries (Highbush and Lowbush)	Mummyberry <i>(Monilinia vaccinii-corymbosi)</i> (Control)	463 - 926 mL/ha (25 - 50 g a.i./ha)	<ul style="list-style-type: none"> • Apply as a foliar spray in sufficient water to provide thorough coverage of foliage (and fruit when present). • Begin as a preventative application at green tip or when conditions favour disease development and continue on a 7-21 day interval if disease pressures persist. • Do not apply more than 150 g a.i./ha/season. • PHI = 0 days.

Berries and Small Fruits (Crop Group 13-07)			
Crop	Disease	Application Rate	Application Instructions
Cranberries	Cottonball (<i>Monilinia oxycocci</i>) (Suppression)	463 mL/ha (25 g a.i./ha)	<ul style="list-style-type: none"> Apply as a foliar spray in sufficient water to provide thorough coverage of foliage (and fruit when present). Begin as a preventative application at 10%-25% bloom or when conditions favour disease development and continue on 7-14 day interval if disease pressures exist. Do not apply more than 150 g a.i./ha/ season. PHI = 0 days.
	Fruit Rot Complex (<i>Coleophoma empetri</i> , <i>Colletotrichum acutatum</i> , <i>Colletotrichum gloeosporioides</i> , <i>Phomopsis vaccinii</i> , <i>Phyllosticta vaccinii</i> , and <i>Physalospora vaccinii</i>) (Suppression)	926 mL/ha (50 g a.i./ha)	<ul style="list-style-type: none"> Apply as a foliar spray in sufficient water to provide thorough coverage of foliage (and fruit when present). Begin as a preventative application at 25%-50% bloom or when conditions favour disease development and continue on 7-21 day interval if disease pressures exist. Do not apply more than 150 g a.i./ha/ season. PHI = 0 days.
Grapes	Bunch rot, Grey mold (<i>Botrytis cinerea</i>) (Suppression)	463 - 926 mL/ha (25 - 50 g a.i./ha)	<ul style="list-style-type: none"> Apply as a foliar spray in sufficient water to provide thorough coverage of foliage (and fruit when present). <u>For Bunch rot and Grey mold</u>, apply pre-bloom, at bunch pre-closure, veraison, and pre-harvest. Apply as a preventative application when conditions favour disease development and continue to maintain suppression. <u>For Downy mildew and Phomopsis fruit rot</u>, begin as a preventative application when conditions favour disease development and continue on a 10-20 day interval to maintain control. <u>For Powdery mildew</u>, begin as a preventative application when conditions favour disease development and continue on a 7-14 day interval to maintain control. Do not apply more than 150 g a.i./ha/season. PHI = 0 days.
	Downy mildew (<i>Plasmopara viticola</i>) (Control)	926 mL/ha (50 g a.i./ha)	
	Phomopsis fruit rot (<i>Phomopsis viticola</i>) (Control)	259 - 926 mL/ha (14 - 50 g a.i./ha)	

Berries and Small Fruits (Crop Group 13-07)			
Crop	Disease	Application Rate	Application Instructions
Strawberries (Field and Greenhouse)	Anthracnose (<i>Colletotrichum acutatum</i>) (Control)	463 - 926 mL/ha (25 - 50 g a.i./ha)	<ul style="list-style-type: none"> Apply as a foliar spray in sufficient water to provide thorough coverage of foliage (and fruit when present). <u>For Anthracnose, Grey mold, and Powdery mildew</u>, begin as a preventative application when conditions favour disease development and continue on a 7-10 day interval to maintain control or suppression. <u>For Leather rot and Phomopsis leaf spot and fruit rot</u>, begin as a preventative application when conditions favour disease development and continue on a 7-14 day interval to maintain control. Use the high rate under conditions of high disease pressure. Do not apply more than 150 g a.i./ha/season or 12 months. PHI = 0 days.
	Phomopsis leaf spot and fruit rot (<i>Phomopsis obscurans</i>) (Control)		
	Grey mold (<i>Botrytis cinerea</i>) (Control)	926 mL/ha (50 g a.i./ha)	
	Grey mold (<i>Botrytis cinerea</i>) (Suppression)	259 - 463 mL/ha (14 - 25 g a.i./ha)	
	Powdery mildew (<i>Podosphaera aphanis</i>) (Suppression)	259 - 926 mL/ha (14 - 50 g a.i./ha)	
	Leather rot (<i>Phytophthora catorum</i>) (Control)	926 mL/ha (50 g a.i./ha)	

Berries and Small Fruits (Crop Group 13-07), excluding Grapes and Strawberries : 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 (Sasktoon), 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, Wild raspberries, Cultivars, varieties, and/or hybrids of these.

Greenhouse Ornamentals			
Crop	Disease	Application Rate	Application Instructions
Greenhouse Ornamentals	Botrytis blight, Grey mold (<i>Botrytis cinerea</i>) (Suppression)	315 - 1222 mL/1000 L (17 - 66 g a.i./ 1000 L)	<ul style="list-style-type: none"> • Apply as a foliar spray to provide thorough coverage of foliage (and flowers when present). • Begin as a preventative application when conditions favour disease development and continue on a 7-14 day interval to maintain suppression. • Do not apply more than 3 applications per season or 12 months. • For greenhouse use only.

RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, please note that Polyoxin D Zinc Salt 5SC Fungicide contains a Group 19 fungicide. Any fungal population may contain individuals naturally resistant to Polyoxin D Zinc Salt 5SC Fungicide and other Group 19 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay fungicide resistance:

- Where possible, rotate the use of Polyoxin D Zinc Salt 5SC Fungicide or other Group 19 fungicides with different groups that control the same pathogens.
- 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 Kaken Pharmaceutical Co., Ltd. if reduced sensitivity of the pathogen to Polyoxin D Zinc Salt 5SC 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 site of action, if available.
- Contact your local extension specialist or certified advisor for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.
- For further information or to report suspected resistance contact Kaken Pharmaceutical Co., Ltd.

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