

2020-1064
2020-12-17

(On Packaging)

GROUP	M5	FUNGICIDE
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NET CONTENTS: 10 X 1 Kg

ECHO 90WSP Agricultural Fungicide

Dry Flowable Formulation in Water Soluble Packaging

Commercial

NOT FOR USE IN GREENHOUSES

ACTIVE INGREDIENT:

Chlorothalonil 90%



POISON

DANGER - CORROSIVE TO EYES. SKIN IRRITANT

POTENTIAL SKIN SENSITIZER WARNING: CONTAINS THE ALERGEN SULPHITES

READ THE LABEL BEFORE USING.

REGISTRATION NO. 33519

PEST CONTROL PRODUCTS ACT

Sipcam Agro USA, Inc.
2525 Meridian Parkway, Suite 350
Durham, NC 27713 USA

Distributed by: United Agri Products Canada Inc.
789 Donnybrook Drive
Dorchester, ON, N0L 1G5 (919) 226 1195
1-800-265-4624

KEEP OUT OF REACH OF CHILDREN

DANGER

FIRST AID

IF INHALED	<ul style="list-style-type: none">• 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 ON SKIN OR CLOTHING	<ul style="list-style-type: none">• 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 IN EYES	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control centre or doctor for treatment advice.
IF SWALLOWED	<ul style="list-style-type: none">• 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.
Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.	
EMERGENCY TELEPHONE NUMBER	
All hours: 1-800-327-8633 (FASTMED) ONLY for health and environmental information.	

TOXICOLOGICAL INFORMATION

NOTES TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Persons having an allergic reaction respond to treatment with antihistamines or steroid creams and/or systemic steroids. Exposure to this product may produce temporary side effects, characterized by irritation and redness of the eyes, mild bronchial irritation and redness or rash on exposed skin areas.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

DANGER: CORROSIVE to the eye. **DO NOT** get in eyes. May irritate the skin. Avoid contact with skin or clothing. May be fatal if inhaled. Avoid inhaling/breathing dusts, spray mists...etc. Potential skin sensitizer. Wash exposed areas of skin with soap and warm water after handling or using. **DO NOT** take internally. **DO NOT** store near feed or foodstuffs. Store in a cool place. Apply only to areas specified on the label.

Wear coveralls over long pants, a long-sleeved shirt, goggles or a face shield, apron and chemical resistant gloves during mixing, loading, clean-up and repair activities. Wear long pants, a long-sleeved shirt and chemical resistant gloves during application.

Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools, and recreation areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

DO NOT re-enter treated areas within 48 hours. If required, individuals may re-enter treated areas within 48 hours for short-term tasks not involving hand labour only if at least 4 hours has passed since application, and long pants, long-sleeved shirt, hat and chemical-resistant gloves are worn.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's website at www.croplife.ca.

ENVIRONMENTAL PRECAUTIONS

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

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.

DO NOT discharge effluent containing this product into sewer systems, lakes, streams, ponds, estuaries, oceans or other waters.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

STORAGE

Do not remove the pouch from an overwrap container except for immediate use. Do not allow to become wet in storage. Keep the container closed when not in use.

CONTAINER/WATER SOLUBLE PACKAGING HANDLING

Entire inner packets dissolve in water. After opening outer bag, drop the required unopened inner packets into spray tank as directed. Do not excessively handle water soluble packet or expose it to moisture, since this may cause breakage. Do not break open water soluble packages.

DISPOSAL

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.

For recyclable containers

DO NOT reuse the outside 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 returnable containers

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For containers that can be refilled for the use by the distributor/dealer

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For disposal, the outside container may be returned to the point of purchase (distributor/dealer). It must be filled by the distributor/dealer with the same product. DO NOT reuse this container for any other purpose.

IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING CALL 1-800-327-8633 (FASTMED)

NOTICE TO USER

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PRODUCT INFORMATION

ECHO 90WSP Agricultural Fungicide is an excellent fungicide when used according to label directions for control of a broad spectrum of plant diseases. This product can be used effectively in dilute or concentrate sprays. Thorough uniform coverage is essential for disease control.

DO NOT combine ECHO 90WSP Agricultural Fungicide in the spray tank with pesticides, surfactants or fertilizers unless your prior use has shown the combination physically compatible and non- injurious under your conditions of use. Note: Slowly invert container several times to assure uniform mixture.

The required amount of ECHO 90WSP Agricultural Fungicide should be added slowly into the spray tank during filling. With concentrate sprays, premix the required amount of this product in a clean container and add to the spray tank as it is being filled. Keep agitator running when filling spray tank and during spray operations.

DIRECTIONS FOR USE

ECHO 90WSP is a water dispersible granule sealed within a water-soluble bag. Drop an intact water-soluble bag directly into a mixing tank. The water-soluble bag and pesticide will dissolve readily in water.

Do not allow the water-soluble bag to become wet prior to use. Do not remove a water-soluble bag from an overwrap container except for immediate use.

Do not open or puncture a water-soluble bag for any reason. If a broken water-soluble bag is found when the overwrap bag is opened, avoid contact with, and inhalation of the product.

Dosage rates on this label indicate the number of 1 kg water soluble bags per hectare unless otherwise stated. Applications should be made in sufficient water to obtain adequate coverage of foliage and stems. Volume of water to be used will vary with crop and amount of plant growth. Spray volume usually will range from 225 - 1,600 litres per hectare for dilute sprays and 50 - 100 litres per hectare for concentrate ground sprays and aircraft applications. Both groundboom and aircraft methods of application are recommended unless specific directions are given for a crop.

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 and mushroom houses containing this product to enter lakes, streams, ponds or other bodies of water.

DO NOT APPLY THIS PRODUCT WITHIN 10 DAYS BEFORE OR AFTER AN OIL APPLICATION AS THE PRESENCE OF OIL MAY RESULT IN BURNING TO FLOWERS AND LEAF TISSUE.

Apply only when the potential for drift to non-target areas of human habitation and 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.

Groundboom

Except Applications to Potatoes

Wear coveralls over a long-sleeved shirt and long pants, chemical resistant gloves, socks and shoes during mixing, loading, clean-up, and repair activities. Wear a long sleeved-shirt, long pants, chemical resistant gloves, socks and shoes during application. Gloves are not required during application within a closed cab.

Groundboom Application to Potatoes

Wear coveralls over a long-sleeved shirt and long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up, and repair. Gloves are not required during application within a closed cab.

Applicators treating potato fields must use groundboom equipment with an enclosed cab. Gloves are not required for an applicator in an enclosed cab. Wear chemical-resistant gloves when leaving the cab for clean-up and repair.

Airblast

Wear coveralls over a long-sleeved shirt and long pants, chemical resistant gloves, socks and shoes during mixing, loading, clean-up, and repair activities. Wear a long sleeved-shirt, long pants, chemical resistant gloves, socks and shoes during application. Gloves are not required during application within a closed cab.

In addition, wear chemical-resistant headgear during open cab airblast application. Chemical-resistant headgear includes Southwestern hat, chemical-resistant rain hat or large brimmed waterproof hat and hood with sufficient neck protection.

Aerial

The field crew and the mixer/loaders: Wear coveralls over a long-sleeved shirt and long pants, chemical-resistant gloves, socks and shoes during mixing, loading, clean-up, and repair.

Aerial applicators: Wear a long-sleeved shirt, long pants, socks and shoes during application. Gloves are not required during application within a closed cockpit.

Irrigation System

Wear coveralls over a long-sleeved shirt and long pants, chemical-resistant gloves, socks and shoes during mixing, loading, clean-up, and repair.

Hand Held Spray Equipment

Wear coveralls over a long-sleeved shirt and long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up, and repair.

Applicators in greenhouses and mushroom houses must wear a respirator with a NIOSH- approved organic vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH-approved canister approved for pesticides.

Vegetative Filter Strips (VFS)

A Vegetative Filter Strip (VFS) of at least 10 metres wide must be constructed and maintained. The VFS is required between the field edge and adjacent, downhill aquatic habitats to reduce risk to aquatic organisms from run-off. Aquatic habitats include, but are not limited to, lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, and estuaries.

The VFS is to be composed of grasses and may also include shrubs, trees, or other vegetation. Additional guidance can be found on the PMRA Environmental Risk Mitigation webpages.

Both VFS and spray drift buffer zones must be observed.

Spray Drift Buffer Zones

Spray drift buffer zones are to protect terrestrial and aquatic habitats from spray drift. Spray drift buffer zones are a separate requirement from VFS which are required to mitigate risks from runoff.

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

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

Aerial application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply when wind speed is greater than 16 km/h at flying height at the site of application. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. To reduce drift caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing- or rotorspan.

Spot treatments using hand-held equipment **DO NOT** require a buffer zone.

The spray drift buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Buffer Zone Table

	Crop		Buffer Zones (metres) Required for the Protection of:			
			Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:	
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m
Field sprayer	Wheat, evening primrose, potato		2	1	2	1
	Carrots, sweet corn, parsnip, dry pea		3	1	3	1
	Celery, chickpeas, lentils, strawberry		3	1	3	2
	Cole crops, cucurbit vegetables, ginseng, onion, cabbage, tomato, outdoor ornamentals (excluding <i>Pachysandra</i>)		4	1	4	2
	Blueberries (lowbush, highbush), conifers - outdoor		5	1	5	3
	Cranberry		10	1	10	4
Airblast	Outdoor ornamentals (excluding <i>Pachysandra</i>)	Early growth stage	35	10	35	25
		Late growth stage	25	5	25	15
	Blueberry (lowbush, high bush)	Early growth stage	40	15	40	30
		Late growth stage	30	5	30	20
	Cherries, peaches, nectarines, conifers - outdoors	Early growth stage	40	15	40	30
		Late growth stage	30	10	30	20

	Crop		Buffer Zones (metres) Required for the			
			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
Aerial	Potato, evening primrose	Fixed wing	65	4	65	20
		Rotary wing	50	1	50	15
	Wheat	Fixed wing	75	5	75	20
		Rotary wing	55	2	55	15
	Parsnip	Fixed wing	90	5	90	20
		Rotary wing	60	3	60	20
	Dry pea	Fixed wing	95	5	95	25
		Rotary wing	70	4	70	20
	Carrot	Fixed wing	100	5	100	30
		Rotary wing	75	5	75	20
	Lentils, celery	Fixed wing	175	10	175	40
		Rotary wing	100	5	100	30
	Cole crops, cucurbit, onion, tomato	Fixed wing	200	10	200	55
		Rotary wing	125	10	125	40

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

The spray-drift buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pest Management Regulatory Agency web site. This tool cannot be used to reduce the vegetative filter strips.

The use of this and any product containing chlorothalonil is prohibited on greenhouse-grown food crops unless clearly specified on the label.

Application and Calibration Techniques for Solid Set Irrigation Systems

Adjust sprinkler nozzles to prevent direct spray or drift into non-target areas. Determine acreage covered by sprinkler. Fill tank of injection equipment with water and adjust flow to use contents within desired time periods. Mix desired amount of this product for acreage to be covered into quantity of water used during calibration. Operate entire system at normal pressures recommended by the manufacturer of injection equipment for amount of time established during calibration.

This product can be injected at the beginning or end of the irrigation cycle or as a separate application. Stop injection equipment after treatment is completed (e.g., as indicated by dye) and continue to operate irrigation system until product has been cleared from the last sprinkler head. **DO NOT** operate irrigation system without safety valves or other devices to prevent back-siphoning of product into water source. Tank containing product should be connected to the discharge side of irrigation pump or other pressurized equipment attached to irrigation line. Never inject pesticides into the intake line or the suction side of pump. Irrigation water treated with this product should be maintained on the treated area until the water is absorbed by the soil.

Do not apply this product through any other type of irrigation system.

Do not apply when wind speed causes any non-uniform distribution and/or favours drift beyond the area intended for treatment.

Do not apply by chemigation if the area to be treated is within 100 metres or a residential area or park.

Fungicide Resistance Management

For resistance management, this product contains a Group M fungicide. Any fungal population may contain individuals naturally resistant to ECHO 90WSP Agricultural Fungicide and other Group M 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 ECHO 90WSP Agricultural Fungicide or other Group M fungicides with different groups that control the same pathogens.
- Avoid application of more than the maximum number listed in the label and consecutive sprays of ECHO 90WSP Agricultural Fungicide or other fungicides in the same group in a season.
- Fungicide use should be based on an IPM program that includes scouting, historical information related to pesticide use and crop rotation and considers cultural, biological and other chemical control practices.
- Monitor treated fungal populations for sign of resistance development.
- If disease continues to progress after treatment with this product, do not increase the use rate. Discontinue use of this product, and switch to another fungicide with a different target site of action, if available.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for specific crops and disease problems in your area.

This product is effective for strategic use in programs that attempt to minimize disease resistance to fungicides. Some other fungicides which are at risk from disease resistance exhibit a single-site mode of fungicidal action. This product, with a multi-site mode of action, may be used to delay or prevent the development of resistance to single-site fungicides.

Consult with your federal or state Cooperative Extension Service representatives for guidance on the proper use of this product in programs which seek to minimize the occurrence of disease resistance to other fungicides.

For further information and to report suspected resistance, contact company representatives at: (519) 268 5906 or Fax (519) 268 8013.

RATE TABLE

At the rate of Echo 90WSP/ha below, a 1 kg water soluble packet (WSP) will treat the indicated number of hectares at that rate.

Rate of Echo 90WSP/ha	Number of Hectares treated with 1kg WSP of Echo 90WSP
0.7	1.43
0.8	1.25
0.9	1.11
1.1	0.91
1.2	0.83
1.3	0.77
1.4	0.71
1.5	0.67
1.7	0.59
1.8	0.56
1.9	0.53
2.0	0.50
2.2	0.45
2.3	0.43
2.6	0.38
2.7	0.37
2.8	0.36
3.3	0.30
3.8	0.26
3.9	0.26
4.0	0.25
5.0	0.20
5.2	0.19
6.4	0.16

REFER TO THE RATE TABLE ABOVE TO CALCULATE THE NUMBER OF 1 KG WSP NEEDED TO TREAT YOUR AREA.

VEGETABLE, FRUIT and FIELD CROPS

Crop	PHI (days)	Diseases	Rate of ECHO 90WSP	Application Directions
Blueberry (highbush)	54	Anthracnose fruit rot (<i>Colletotrichum gloeosporioides</i>) Alternaria fruit rot (<i>Alternaria</i> spp.) Phomopsis canker (<i>P. vaccinii</i>)	4 kg/ha (3.6)	<p>Make three applications at green tip, pink bud or petal fall using at least a 7-day retreatment interval. After petal fall, a protective schedule using a different registered product may be necessary to ensure continued control of fruit rot.</p> <p>At this rate, a 1 kg WSP of Echo 90WSP will treat 0.24 hectares.</p>
<p>Blueberry Restrictions:</p> <ul style="list-style-type: none"> • Maximum number of applications per year: 2 • Reentry Interval (days): 3 (Handset irrigation) 0.5 (All other activities) 				

Crop	PHI (days)	Diseases	Rate Kg of ECHO 90WSP/ha (kg ai/ha)	Application Directions
Broccoli, Brussels Sprouts, Cabbage, Cauliflower	7	Alternaria leaf spot (<i>Alternaria alternata</i>) Downy mildew (<i>Pseudoperonospora cubensis</i>)	1.3 – 2.7 (1.2-2.4)	Apply in sufficient water to obtain adequate coverage. Make applications after transplants are set in the field (or shortly after emergence of field seeded crop) or when conditions favour disease development. For cabbage, make a second application 7-10 days after the first application to maintain disease control. At this rate range, a 1 kg WSP of Echo 90WSP will treat 0.77-0.37 hectares.
<p>Broccoli, Brussels sprouts, Cauliflower Restrictions:</p> <ul style="list-style-type: none"> • Maximum number of applications/year: 1 • Reentry Interval (days): <ul style="list-style-type: none"> ▪ 5 (Topping (Brussels sprouts)) ▪ 5 (Scouting) ▪ 0.5 (All other activities) <p>Cabbage Restrictions:</p> <ul style="list-style-type: none"> • Maximum number of applications/year: 2 • Reentry Interval (days): <ul style="list-style-type: none"> ▪ 2 (Scouting, Thinning) ▪ 1 (Hand weeding) ▪ 0.5 (All other activities) 				
Carrot	1	Early blight (<i>Cercospora carotae</i>) Late blight (<i>Alternaria dauci</i>)	1.3 – 1.8 (1.2-1.6)	Apply in sufficient water to obtain adequate coverage. Use 1.3 – 1.8 kg in sufficient water to obtain adequate coverage. Start applications when disease threatens and repeat at 7 - 10 days intervals to maintain control. At this rate range, a 1 kg WSP of Echo 90WSP will treat 0.77 - 0.56 hectares.
<p>Carrot Restrictions:</p> <ul style="list-style-type: none"> • Maximum number of applications/year: 7 • Reentry Interval (days): <ul style="list-style-type: none"> ▪ 22 (Hand harvesting) ▪ 7 (Scouting) ▪ 0.5 (All other activities) 				

Crop	PHI (days)	Diseases	Rate Kg of ECHO 90WSP/ha (kg ai/ha)	Application Directions
Celery, field	7	Early blight (<i>Cercospora apii</i>) Late blight (<i>Septoria apicola</i>)	0.9 – 1.3 (0.8 - 1.2) 3- to 5-day schedule -- OR -- 1.3 – 2.3 (1.2 - 2.0) 8- to 10-day schedule	Start applications when transplants are set in the field. Apply this product in sufficient water to obtain adequate coverage. At these rate ranges, a 1 kg WSP of Echo 90WSP will treat 1.11 - 0.77 hectares on a 3- to 5-day schedule and 0.71 - 0.43 hectares on an 8- to 10-day schedule.
Celery, seedbeds (greenhouse)	N/A	Early blight (<i>Cercospora apii</i>) Late blight (<i>Septoria apicola</i>)	1.4 – 1.9 (1.0-1.4)	For control in celery seedbeds, use of this product per 1000 litres of water and apply 1,400 litres per hectare. Start application shortly after crop emergence. Use the higher rate under severe disease conditions.
<p>Celery Restrictions:</p> <ul style="list-style-type: none"> • Maximum number of applications/year: <ul style="list-style-type: none"> • 2 (field) • 1 (greenhouse seedbeds) • Reentry Interval (days): <ul style="list-style-type: none"> • 0.5 (All activities) (field and greenhouse seedbeds) 				

Crop	PHI (days)	Diseases	Rate Kg of ECHO 90WSP/ha (kg ai/ha)	Application Directions
Cherry (sweet and sour) Apply in 500-1000 litres of water per hectare.	40	Blossom blight (<i>Monilinia laxa</i>) Cherry leaf spot (<i>Blumeriella jaapii</i>) Black knot (<i>Apiosporina morbosa</i>)	2.8 – 5.0 (2.5-4.5)	Pre-harvest: Apply 1-2 applications from pink through shuck split at 10 days apart. At this rate range, a 1 kg WSP of Echo 90WSP will treat 0.36 - 0.20 hectares.
	N/A	Cherry leaf spot (<i>Blumeriella jaapii</i>) Black knot (<i>Apiosporina morbosa</i>)	3.3 – 5.0 (3.0-4.5)	Post-harvest: Apply once to foliage 1-7 days after fruit is removed. At this rate range, a 1 kg WSP of Echo 90WSP will treat 0.30 - 0.20 hectares.
<p>Cherry Restrictions:</p> <p>Pre-Harvest</p> <ul style="list-style-type: none"> • Maximum number of applications per year: 2 (Spring) • Reentry Interval (days): <ul style="list-style-type: none"> • 8 (Thinning) • 0.5 (All other activities) • DO NOT apply after shuck split to avoid fruit injury. <p>Post-Harvest</p> <ul style="list-style-type: none"> • Maximum number of applications per year: 1 				
Chickpeas	48	Ascochyta blight (<i>A. phaseolorum</i>)	1.7 – 2.2 (1.5 - 2.0) (1 st application) 1.1 – 1.7 (1.0 - 1.5) (all other applications)	Use the higher rate for the first application at very early flowering and the lower rate for all other applications at 10-day intervals. Apply by ground only in 220 liters of water per hectare. At this rate range, a 1 kg WSP of Echo 90WSP will treat 0.59 - 0.45 hectares for the 1 st application and 0.91 – 0.59 for all other applications.
<p>Chickpea Restrictions:</p> <ul style="list-style-type: none"> • Maximum number of applications/year: 2 • Reentry Interval (days): <ul style="list-style-type: none"> • 2 (Scouting) • 0.5 (All activities) • Apply only with ground application equipment. • DO NOT apply using aerial application equipment. 				

Crop	PHI (days)	Diseases	Rate Kg of ECHO 90WSP/ha (kg ai/ha)	Application Directions
Cranberry	50	Fruit rots (<i>Monilinia oxycocci</i>) Twig leaf blight, Upright dieback (<i>Diaporthe vaccinia</i>)	3.8 - 6.4 (3.4 - 5.8)	Apply once per year as needed. Use the higher rate for severe disease conditions. At this rate range, a 1 kg WSP of Echo 90WSP will treat 0.26 - 0.16 hectares.
<p>Cranberry Restrictions:</p> <ul style="list-style-type: none"> • Maximum number of applications per year: 1 • Reentry Interval (days): <ul style="list-style-type: none"> • 5 (Scouting) • 0.5 (All other activities) • DO NOT apply this product to fields when flooded or allow release of irrigation water from bogs for at least 3 days following application. • This product may be applied through sprinkler irrigation equipment. Use 3000 litres of water per hectare through solid set systems only. See application and calibration techniques for sprinkler irrigation under Directions for Use. • DO NOT APPLY USING AERIAL APPLICATION EQUIPMENT. 				
Cucurbit vegetables (Cantaloupe, Cucumber, Muskmelon, Honeydew, squash, pumpkin, watermelon)	1	Anthracnose (<i>Colletotrichum spp.</i>) Powdery mildew (<i>Podosphaera xanthii syn. Sphaerotheca fuliginea</i>) Scab (<i>Cladosporium cucumerinum</i>)	2.7 (2.4) 1.8 (1.6) for Anthracnose control on watermelon, squash and pumpkin	Apply this product in sufficient water to obtain adequate coverage. Begin applications when plants are in first true leaf stage or when conditions are favourable for disease development. Make a second application 7 days after the first application. At this rate, a 1 kg WSP of Echo 90WSP will treat 0.37 hectares. For anthracnose control on watermelon, squash and pumpkin a 1 kg WSP of Echo 90WSP will treat 0.56 hectares
<p>Cucurbit vegetables Restrictions:</p> <ul style="list-style-type: none"> • Maximum number of applications/year: 2 • Reentry Interval (days): <ul style="list-style-type: none"> • 0.5 (All activities) • DO NOT apply via sprinkler irrigation system. 				

Crop	PHI (days)	Diseases	Rate Kg of ECHO 90WSP/ha (kg ai/ha)	Application Directions
Dry Peas	32	Ascochyta blight (<i>Mycosphaarella pinodes</i>)	1.1 - 1.7 (1.0 – 1.5)	<p>Make first application beginning at early flowering and the second application at early pod set, approximately 10 days after the first. Apply the higher rate when conditions favour disease development.</p> <p>At this rate range, a 1 kg WSP of Echo 90WSP will treat 0.91 - 0.59 hectares.</p>
<p>Dry peas Restrictions:</p> <ul style="list-style-type: none"> • Maximum number of applications/year: 2 • Reentry Interval (days): • 1 (Scouting) <ul style="list-style-type: none"> • 0.5 (All activities) • DO NOT feed the hay from treated crop to livestock. • DO NOT allow grazing of treated crop 				
Lentils	48	Anthracnose (<i>Colletotrichum gleosporioides</i>) Ascochyta blight (<i>Ascochyta pisi</i>)	1.1 - 2.2 (1.0 – 2.0)	<p>Begin applications at pre-flowering prior to row closure and make a second application 10-14 days later (during bloom period).</p> <p>At this rate range, a 1 kg WSP of Echo 90WSP will treat 0.91 - 0.45 hectares.</p>
<p>Lentils Restrictions:</p> <ul style="list-style-type: none"> • Maximum number of applications/year: 2 • Reentry Interval (days): • 3 (Scouting) • 0.5 (All activities) • Do not apply this product in combination with POAST® herbicide and MERGE® surfactant or within 48 hours of the application of POAST and MERGE. • Do not feed the straw from treated crop to livestock. • Do not allow grazing of treated crop. 				

Crop	PHI (days)	Diseases	Rate Kg of ECHO 90WSP/ha (kg ai/ha)	Application Directions
Onions (dry bulb and green bunching)	7 (dry bulb) 14 (green bunching)	Botrytis leaf blight (<i>Botrytis</i> spp.)	1.4 – 2.6 (1.2 – 2.4)	Begin applications when conditions favour disease. Make a second application 7-10 days later to obtain control. Use sufficient water to obtain adequate coverage. At this rate range, a 1 kg WSP of Echo 90WSP will treat 0.71 - 0.38 hectares.
Onions (dry bulb and green bunching) Restrictions: <ul style="list-style-type: none"> • Maximum number of applications/year: 2 • Reentry Interval (days): <ul style="list-style-type: none"> • 6 (Hand weeding) • 1 (Scouting) • 0.5 (All activities) 				
Parsnips	7	Root canker (<i>Phoma</i> spp.)	1.5 (1.4)	Begin applications in mid-August and repeat every 7-10 days after. At this rate, a 1 kg WSP of Echo 90WSP will treat 0.67 hectares.
Parsnips Restrictions: <ul style="list-style-type: none"> • Maximum number of applications per year: 7 • Reentry Interval (days): <ul style="list-style-type: none"> • 21 (Hand harvesting) • 5 (Scouting) • 0.5 (All other activities) 				

Crop	PHI (days)	Diseases	Rate Kg of ECHO 90WSP/ha (kg ai/ha)	Application Directions
Peach Nectarine	60	Blossom blight (<i>Monilinia spp.</i>)	2.8 – 5.0 (2.5 – 4.5)	<p>Apply 1-2 applications from pink through shuck period.</p> <p>Use higher rates for trees greater than 6 meters in height or if weather is warmer than 16°C and wet during bloom.</p> <p>Use 500-1000 liters of water per hectare.</p> <p>At this rate range, a 1 kg WSP of Echo 90WSP will treat 0.36 - 0.20 hectares.</p>
		Peach leaf curl (<i>Blumeriella jaapii</i>)	2.8 – 3.9 (2.5 – 3.5)	<p>Make one application per year as a fall dormant spray at 75-100% leaf drop or in early spring before bud swell/bud break. Apply in at least 1000 liters of water per hectare.</p> <p>At this rate range, a 1 kg WSP of Echo 90WSP will treat 0.36 - 0.26 hectares.</p>

Peach and Nectarine Restrictions:

- Maximum number of applications per year: 3 (2 (Spring) + 1 (Dormant))
- Reentry Interval (days):
11 (Thinning)
0.5 (All other activities)
- DO NOT apply after shuck split to avoid fruit injury.
- DO NOT APPLY THIS PRODUCT WITHIN 10 DAYS OF AN OIL APPLICATION AS IT MAY CAUSE BURNING TO FLOWERS AND LEAF TISSUE.

Crop	PHI (days)	Diseases	Rate Kg of ECHO 90WSP/ha (kg ai/ha)	Application Directions
Potato	1	Late blight (<i>Phytophthora infestans</i>)	0.7 – 1.3 (0.6 – 1.2)	Use sufficient water to obtain adequate spray coverage. Begin applications when plants are 15-20 cm high, or when disease threatens. Repeat applications at 7 to 10 day intervals to maintain disease control. Under severe disease conditions, use the higher rates at 7-day intervals. At this rate range, a 1 kg WSP of Echo 90WSP will treat 1.43 - 0.77 hectares for late blight control and 1.11 – 0.77 for early blight control.
		Early blight (<i>Alternaria solani</i>) Botrytis vine rot (<i>Botrytis cinerea</i>)	0.9 – 1.3 (0.8 – 1.2)	
<p>Potato Restrictions:</p> <ul style="list-style-type: none"> • Maximum number of applications per year: 3 • Reentry Interval (days): <ul style="list-style-type: none"> • Potato (seed) <ul style="list-style-type: none"> • 23 (Handset irrigation) • 19 (Roguing) • 3 (Scouting) • 0.5 (All other activities) • Potato (table) <ul style="list-style-type: none"> • 23 (Handset irrigation) • 3 (Scouting) • 0.5 (All other activities) 				
Strawberry	30	Botrytis fruit rot (<i>Botrytis spp.</i>)	1.9 (1.8)	<p>Make one application in the fall and two applications pre-bloom (one when new growth appears and another 10-12 days later) the following Spring.</p> <p>At this rate, a 1 kg WSP of Echo 90WSP will treat 0.53 hectares.</p>
<p>Strawberry Restrictions:</p> <ul style="list-style-type: none"> • Maximum number of applications per year: 3 (2 (Spring) + 1 (Post-harvest)) • Reentry Interval (days): <ul style="list-style-type: none"> • 11 (Thinning) • 0.5 (All other activities) • Use ground application equipment only. • DO NOT apply using aerial application equipment. • DO NOT apply via sprinkler irrigation system. 				

Crop	PHI (days)	Diseases	Rate Kg of ECHO 90WSP/ha (kg ai/ha)	Application Directions
Sweet Corn	14	Common rust (<i>Puccinia spp.</i>)	1.8 (1.6)	Begin applications when disease symptoms are first observed and repeat 10-14 days after first application. At this rate, a 1 kg WSP of Echo 90WSP will treat 0.56 hectares.
Sweet Corn Restrictions:				
<ul style="list-style-type: none"> • Maximum number of applications per year: 2 • Reentry Interval (days): <ul style="list-style-type: none"> • 18 (Hand harvesting) • 14 (Mechanical harvesting) • 0.5 (All other activities) 				
Tomato (Including processing tomatoes)	1	Early blight (<i>Alternaria solani</i>) Late blight (<i>Phytophthora infestans</i>) Septoria leaf spot (<i>Septoria lycopersici</i>) Anthracnose (<i>Colletotrichum spp.</i>)	1.3 – 2.2 (1.2 – 2.0)	Apply this product in sufficient water to obtain adequate coverage. Begin applications when disease threatens, and spray on an 8- to 10-day schedule at the lower rate, or at a 14-day schedule at the higher rate 2.2 Kg (2.0 kg ai). At this rate range, a 1 kg WSP of Echo 90WSP will treat 0.77 - 0.45 hectares.
		Botrytis gray mold (<i>Botrytis cinerea</i>)	2.7 (2.4)	Apply on a 14-day schedule. At this rate, a 1 kg WSP of Echo 90WSP will treat 0.37 hectares.
Tomato Restrictions:				
Not for Processing:				
<ul style="list-style-type: none"> • Maximum number of applications per year: 2 • Reentry Interval (days): 0.5 (All activities) 				
For Processing:				
<ul style="list-style-type: none"> • Maximum number of applications per year: 9 (2 applications at 3.3 L or 2.4 kg ai/ha and 7 applications at 1.7 L or 1.2 kg ai/ha) • Reentry Interval (days): <ul style="list-style-type: none"> • 7 (Scouting) • 0.5 (All other activities) • Do not hand harvest processing tomatoes. 				

Crop	PHI (days)	Diseases	Rate Kg of ECHO 90WSP/ha (kg ai/ha)	Application Directions
Wheat	30	Septoria leafspot (<i>Mycosphaerella graminicola</i>) Septoria glume blotch (<i>Parastagonospora nodorum</i>) Tan spot (<i>Pyrenophora tritici-repentis</i>)	0.8 – 1.4 (0.7 – 1.3)	First Application: Zadok's growth stage 37 (flag leaf emergence) Second Application: 10-14 days after first application at Zadok's growth stage 51-55 (ear visible) At this rate range, a 1 kg WSP of Echo 90WSP will treat 1.25 - 0.71 hectares.
		Fusarium head blight (scab) (<i>Fusarium graminearum</i>) suppression	1.1 – 1.4 (1.0 – 1.3)	Make an application at Zadok's growth stage 61-65 (early flowering) for suppression of fusarium head blight. It is important to make this application prior to disease conditions or before flowering has started in the majority of tillers and wet weather is expected At this rate range, a 1 kg WSP of Echo 90WSP will treat 0.91 - 0.71 hectares.

Wheat Restrictions:

- Maximum number of applications per year: 2
- Reentry Interval (days):
 - 0.5 (All other activities)
- DO NOT feed the straw from treated crop to livestock.
- DO NOT allow grazing of treated crop.

REFER TO THE RATE TABLE ABOVE TO CALCULATE THE NUMBER OF 1 KG WSP NEEDED TO TREAT YOUR AREA.

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

The DIRECTIONS FOR USE for this product for Evening Primrose and Ginseng were developed by persons other than Sipcam Agro USA, Inc. under the User Requested Minor Use Label Expansion program. For these uses, Sipcam Agro USA, Inc. 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.

Crop	PHI (days)	Diseases	Rate Kg of ECHO 90WSP/ha (kg ai/ha)	Application Directions
Evening Primrose	--	Blight and dieback (<i>Botrytis cinerea</i>)	1.3 (1.2)	Make applications in the Fall only 14-28 days apart. Apply to direct seeded fields after emergence when disease symptoms appear. At this rate, a 1 kg WSP of Echo 90WSP will treat 0.77 hectares.
Evening Primrose Restrictions: <ul style="list-style-type: none"> • Maximum number of applications per year: 2 • Reentry Interval (days): <ul style="list-style-type: none"> • 0.5 (All other activities) 				
Ginseng	14	Grey mold (<i>Botrytis cinerea</i>) Leaf spot (<i>Phytophthora cactorum</i>)	1.4 – 2.6 (1.2 - 2.4)	Begin applications when disease threatens and make a second application 7-10 days later. At this rate range, a 1 kg WSP of Echo 90WSP will treat 0.71 - 0.38 hectares.
Ginseng Restrictions: <ul style="list-style-type: none"> • Maximum number of applications per year: 3 (2 + 1 (Fall)) • Reentry Interval (days): <ul style="list-style-type: none"> • 0.5 (All other activities) • Do not feed treated ginseng (roots or foliage) to livestock. 				

Crop	PHI (days)	Diseases	Rate Kg of ECHO 90WSP/ha (kg ai/ha)	Application Directions
Blueberry (lowbush)	54	Phomopsis canker (<i>Phomopsis vaccinii</i>). Suppression Only: Leaf spot diseases including: Septoria leaf spot (<i>Septoria</i> sp.) Rust (<i>Naohidemyces vaccinii</i>) Valdensinia leaf spot (<i>Valdensinia heterodoxa</i>)	2.8 (2.52)	Make the first application in early to mid-June of the sprout year. Follow with a second application in early August. Application should be based on the level of disease pressure in the previous year. Apply this product in 200 - 950 L/ha of water. At this rate, a 1 kg WSP of Echo 90WSP will treat 0.36 hectares.
Blueberry (lowbush) Restrictions: <ul style="list-style-type: none"> • Maximum number of applications per year: 2 • Reentry Interval (days): 0.5 (All other activities) • DO NOT APPLY USING AERIAL APPLICATION EQUIPMENT. 				

REFER TO THE RATE TABLE ABOVE TO CALCULATE THE NUMBER OF 1 KG WSP NEEDED TO TREAT YOUR AREA.

CONIFERS (outdoor (e.g., cedar, Douglas-fir, cypresses, fir, junipers, pine, spruce); including Christmas trees)

Diseases	Rate Kg of ECHO 90WSP/ha (kg ai/ha)	Application Directions
Scleroderris canker (pines) (<i>Gremeniella abietina</i>) Swiss needlecast (<i>Phaeocryptopus gaeumannii</i>) Rhabdocline needlecast (Douglas-fir) (<i>Rhabdocline spp.</i>)	1.3 – 2.7 (1.2 – 2.4)	Apply in 100 to 1000 litres of water per hectare. Make first application in spring when new shoot growth is 1 to 2 cm in length. Make an additional application 3 to 4 weeks after the first. At these rate ranges, a 1 kg WSP of Echo 90WSP will treat 0.77 - 0.30 hectares.
Sirococcus Tip Blight (<i>Sirococcus conigenus</i>)	2.0 – 3.3 (1.8 – 3.0)	

Diseases	Rate Kg of ECHO 90WSP/ha (kg ai/ha)	Application Directions

Rhizosphaera needlecast (spruces) (<i>Rhizosphaera spp.</i>) Scirrhia brown spot (pines) (<i>Mycosphaerella dearnessii</i>)	5.2 (4.8)	Apply in 100 to 1000 litres of water per hectare. Make first application in spring when new shoot growth is 1 to 2 cm in length. Make an additional application 3 to 4 weeks after the first. At this rate, a 1 kg WSP of Echo 90WSP will treat 0.19 hectares.
Lophodermium needlecast (<i>Lophodermium spp.</i>)	1.3 – 2.7 (1.2 – 2.4)	Apply in 100 to 1000 litres of water per hectare. Begin applications in mid-July to early August before infection occurs. Make an additional application 3 to 4 weeks after first application. For use in nursery beds, apply 3.3 L/ha on a 3- week schedule. At this rate range, a 1 kg WSP of Echo 90WSP will treat 0.77 - 0.37 hectares.
Lophodermium needlecast (<i>Lophodermium spp.</i>) Scleroderris canker (pines) (<i>Gremeniella abietina</i>) Swiss needlecast (<i>Phaeocryptopus gaeumannii</i>) Rhabdocline needlecast (Douglas-fir) (<i>Rhabdocline spp.</i>)	1.3 (1.2)	At this rate, a 1 kg WSP of Echo 90WSP will treat 0.77 hectares.
Botrytis seedling blight (<i>Botrytis spp.</i>) Phoma twig blight (<i>Phoma spp.</i>)		Apply in 100 to 1000 litres of water per hectare. Make application when seedlings are 10 cm tall and when cool, moist conditions favor disease development. At this rate, a 1 kg WSP of Echo 90WSP will treat 0.77 hectares.
Conifer (Nursery beds) Restrictions:		
<ul style="list-style-type: none"> • Maximum number of applications per year: 1 • Reentry Interval (days): • 0.5 (All other activities) 		

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(WSP)

**ECHO 90WSP Agricultural Fungicide
Dry Flowable Formulation in Water Soluble Packaging**

**NOT FOR USE IN GREENHOUSES
ACTIVE INGREDIENT: Chlorothalonil 90%**

**POISON
DANGER - CORROSIVE TO EYES. SKIN IRRITANT
POTENTIAL SKIN SENSITIZER WARNING: CONTAINS THE ALERGEN SULPHITES
READ THE LABEL BEFORE USING.
REGISTRATION NO. 33519 PCPA NET CONTENTS: 1 Kg**

NOT FOR INDIVIDUAL SALE.