

60063-9

7/19/2010

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

JUL 19 2010

Joseph W. Burley  
Sipcam Agro USA, Inc.  
Advan LLC and Sostram Corporation  
2520 Meridian Parkway, Suite 525  
Durham, NC 27713

SUBJECT: Amendment Adding Required Label Changes and PR Notice 2007-4  
Echo Lite  
EPA Reg. No. 60063-9  
Your Submission Dated August 31, 2009

Dear Mr. Burley:

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) as amended, to add required label changes for chlorothalonil products with certain turf uses; and label changes required per PR Notice 2007-4 is acceptable provided that you make the following labeling changes:

- 1. On page 2 "waterproof gloves" must be changed to read "chemical resistant gloves".

Submit one copy of your final printed labeling before you release your product for shipment.

If you have any questions regarding this correspondence, contact Rose Kearns of my staff by phone at 703-305-56111 or via email at [kearns.rosemary@epa.gov](mailto:kearns.rosemary@epa.gov) or myself at 703-308-9443 or via email at [kish.tony@epa.gov](mailto:kish.tony@epa.gov).

Sincerely,

Tony Kish  
Product Manager 22  
Fungicide Branch  
Registration Division (7504P)



**SIPCAM AGRO USA, INC.**  
**ECHO® LITE**

ACCEPTED  
 with COMMENTS  
 In EPA Letter Dated

JUL 19 2010  
 Under the Federal Insecticide,  
 Fungicide, and Rodenticide Act  
 as amended, for the pesticide  
 registered under EPA Reg. No.  
60063-9

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Active Ingredient: Chlorothalonil (tetrachloroisophthalonitrile).....	29.6%
Other Ingredients: .....	70.4%
<b>Total:</b> .....	<b>100.0%</b>

Contains 2.91 Pounds Chlorothalonil Per Gallon.

**Keep Out of Reach of Children**

**WARNING-AVISO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
IF INHALED	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible. Call a poison control center or doctor for further treatment advice.
IF IN EYES	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
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 SWALLOWED:	Call a poison control center or doctor immediately for treatment advice. Have affected person sip a glass of water if able to swallow. Do not induce vomiting unless told by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
Emergency phone numbers	(800) 858-7378 NPIC (human and animal health) (800) 424-9300 CHEMTREC (transportation and spills)
NOTES TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Persons having a temporary allergic reaction respond to treatment with antihistamines or steroid creams and/or systemic steroids.	

Manufactured for  
**Sipcam Agro USA, Inc.**  
 2520 Meridian Parkway, Suite 525  
 Durham, NC 27713

EPA Reg. No. 60063-9

EPA Est. No. 37429-GA-01

Net Contents: \_\_\_\_\_ gallons

ECHO is a registered trademark of Sipcam Agro USA, Inc.

[label date code]

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**  
**WARNING-AVISO**

May be fatal if inhaled. Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Do not breathe spray mist. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

**Personal Protective Equipment (PPE):**

Mixers, loaders, applicators and all other handlers must wear:

- Long-sleeved shirt and long pants;
- Shoes plus socks;
- Protective eye wear;
- Waterproof gloves (some of the materials that are chemical-resistant to this product are barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyethylene, polyvinyl chloride, or viton; if you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart);
- A NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P, or HE prefilter.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Keep children and pets off treated area until dry.

**ENVIRONMENTAL HAZARDS**

This product is toxic to aquatic invertebrates and wildlife. DO NOT apply directly to water or to areas where surface water is present or to intertidal areas below the mean high-water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. DO NOT contaminate water when disposing of equipment washwater or rinsate.

Chlorothalonil can contaminate surface water through spray drift. DO NOT apply when weather conditions favor drift from treated areas. Under some conditions, it may also have a high potential for runoff into surface water for several days to weeks after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlaying tile drainage systems that drain to surface water.

Chlorothalonil degradates are known to leach through soil into ground water under certain conditions as a result of label use. Use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

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## DIRECTIONS FOR USE

### General Precautions and Restrictions

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

DO NOT allow people or pets to enter treated areas until sprays have dried or dusts have settled.  
DO NOT apply this product in a way that will contact other persons, or pets, either directly or through drift. Only protected handlers may be in the area during application.  
DO NOT apply this product through any type of irrigation system.

Do not use on home lawns and turf sites associated with apartment buildings, daycare centers, playgrounds, recreational park athletic fields, athletic fields located on or next to schools (ie., elementary, middle and high schools), campgrounds, churches, and theme parks.

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use in small vegetable or fruit gardens, on plants intended for aesthetic purposes or climatic modification and being grown in exterior landscapes, ornamental gardens or parks.

READ ENTIRE LABEL AND USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS.

### Integrated Pest Management

ECHO LITE is an excellent disease control agent when used according to label directions for control of a broad spectrum of plant diseases. ECHO is recommended for use in programs that are compatible with the principles of Integrated Pest Management (IPM), including the use of disease resistant crop varieties, cultural practices, pest scouting and disease forecasting systems which reduce unnecessary applications of pesticides.

### Fungicide Resistance Management

ECHO LITE 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. ECHO, 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 ECHO in programs which seek to minimize the occurrence of disease resistance to other fungicides.

### Mixing, Loading and Applying

ECHO LITE is a liquid concentrate that readily mixes with water and can be used in a tank-type manually operated or power sprayer.

ECHO LITE is highly effective for the control of a broad spectrum of vegetable, fruit and ornamental plant diseases when it is used according to the directions on this label. Thorough uniform coverage of plant surfaces is essential for good disease control.

Shake well before using. Mix appropriate amount with water and use at once.

## GARDEN VEGETABLE DISEASES

Apply ECHO LITE at the rate indicated for each garden crop for the disease to be controlled, by mixing in one gallon of water to cover approximately 200 square feet (10 ft. x 20 ft.) of planted crop. Repeat applications at intervals specified. Use the 7 day schedule during severe disease conditions or wet weather. Do not apply closer to harvest than the indicated **Preharvest Interval (PHI)** for each type of crop. Do not apply more than the specified amount of ECHO LITE per 200 sq.ft. of garden area per year for each crop type.

Note: Avoid spraying plants during extremely hot and sunny weather. Do not apply to wilted plants. Do not graze treated areas or feed treated plant parts to livestock.

tsp. = teaspoonful (1/6 fluid ounce)

CROP	PHI (DAYS)	DISEASES	RATE PER 200 SQ. FT.	APPLICATION DIRECTIONS
Bean (Snap)	7	Rust Botrytis blight (gray mold)	2 ¾ tsp. Per Application,  11 tsp. Per Year	Begin applications during early bloom stage or when disease first threatens and repeat at 7 day intervals.
Beans (Dry)	14	Rust, Anthracnose, Downy mildew, Cercospora leaf spot (blackeye only), Ascochyta blight	2 tsp. Per Application,  8 tsp. Per Year	Begin applications during early bloom stage and repeat at 7 to 10 day intervals. For use only on beans to be harvested dry with pods removed.
Cabbage, Chinese Cabbage (tight-headed varieties only), Cauliflower, Broccoli, Chinese Broccoli, Brussels Sprouts	7	Alternaria leaf spot, Downy mildew, Ring spot	2 tsp. Per Application,  15 tsp. Per Year	Begin applications after transplants are set in field, or shortly after emergence of field-seeded crop, or when conditions favor disease development. Repeat at 7 to 10 day intervals.
Carrot	0	Cercospora (Early) blight, Alternaria (Late) blight	2 tsp. Per Application,  18 tsp. Per Year	Start applications when disease threatens and repeat at 7 to 10 day intervals.

Celery	7	Cercospora (Early) blight, Septoria (Late) blight, Basal stalk rot ( <i>Rhizoctonia solani</i> )	2 ¾ tsp. Per Application,  22 tsp. Per Year	Start applications shortly after crop emergence or when transplants are set in the field. Re-apply at 7 day intervals.													
Corn (sweet)	14	Helminthosporium leaf blights, Rust	2 tsp. Per Application,  11 tsp. Per Year	Begin applications when conditions favor disease development and repeat at 7 day intervals.													
Cucurbits: Cucumber, Cantaloupe, Muskmelon, Honeydew melon, Watermelon, Squash, Pumpkin	0	Anthracnose, Downy mildew, Target spot Cercospora leaf spot, Gummy stem blight (black rot), Alternaria leaf blight, Scab, Powdery mildew ( <i>Sphaerotheca</i> only)	2 ¾ tsp. Per Application,  19 tsp. Per Year	Begin applications when plants are in first true leaf stage or when conditions are favorable for disease development. Repeat applications at 7 day intervals. <b>Note:</b> Spraying mature watermelons may result in sunburn of the upper surface of the fruit. DO NOT apply ECHO to watermelons when any of the following conditions are present: 1. Intense heat and sunlight; 2. Drought conditions; 3. Poor vine canopy; 4. Other crop and environmental conditions which may be conducive to increased natural sunburn. DO NOT combine ECHO with anything except water for application to watermelons unless your prior use has shown the combination to be non-injurious to watermelons under your conditions of use.													
Onion (dry bulb), Garlic	7	Botrytis leaf blight or blast, Purple blotch	2 ¾ tsp. Per Application,  18 tsp. Per Year	ECHO is recommended for use with disease monitoring systems which adjust fungicide rates and frequency of application according to disease hazard. Apply as follows:													
		<table border="1"> <thead> <tr> <th data-bbox="1136 1154 1325 1284"></th> <th data-bbox="1325 1154 1535 1284">Low Disease Hazard &amp; Prior to Infection</th> <th data-bbox="1535 1154 1745 1284">Low Disease Hazard &amp; Some Disease Present</th> <th data-bbox="1745 1154 1944 1284">High Disease Hazard</th> </tr> </thead> <tbody> <tr> <td data-bbox="1136 1284 1325 1349">Rate per Acre:</td> <td data-bbox="1325 1284 1535 1349">1 tsp.</td> <td data-bbox="1535 1284 1745 1349">2 tsp.</td> <td data-bbox="1745 1284 1944 1349">2 ¾ tsp.</td> </tr> <tr> <td data-bbox="1136 1349 1325 1382">Frequency:</td> <td data-bbox="1325 1349 1535 1382">10 days</td> <td data-bbox="1535 1349 1745 1382">7 to 10 days</td> <td data-bbox="1745 1349 1944 1382">7 days</td> </tr> </tbody> </table>				Low Disease Hazard & Prior to Infection	Low Disease Hazard & Some Disease Present	High Disease Hazard	Rate per Acre:	1 tsp.	2 tsp.	2 ¾ tsp.	Frequency:	10 days	7 to 10 days	7 days	
				Low Disease Hazard & Prior to Infection	Low Disease Hazard & Some Disease Present	High Disease Hazard											
		Rate per Acre:		1 tsp.	2 tsp.	2 ¾ tsp.											
Frequency:	10 days	7 to 10 days	7 days														
Neck rot	For suppression of neck rot ( <i>Botrytis</i> spp.) during storage, make a minimum of three weekly applications prior to lifting.																

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Onion (green bunching), Leek, Shallot	14 (green onion, leek, shallot)	Botrytis leaf blight or blast, Purple blotch, Downy mildew (suppression)	2 ¾ tsp. Per Application,  8 tsp. Per Year	Begin applications prior to favorable infection periods, and repeat at 7 to 10 day intervals for as long as conditions favor disease. Use the high rate and a 7 day schedule of applications when heavy dew or rain persist. Do not apply more than 3 times per season. If additional disease control is needed before harvest, use another registered fungicide.
Parsnip	10	Alternaria leaf spot, Downy mildew, Anthracnose, Botrytis blight (gray mold), Bottom rot (Rhizoctonia)	2 tsp. Per Application,  7 tsp. Per Year	Make the first application at the first sign of disease or when conditions are favorable for infection. Continue applications on a 7 to 10 day schedule.
Potato	7	Late blight, Early blight, Botrytis vine rot	1 ½ tsp. Per Application,  14 tsp. Per Year	Begin applications at the low rate when vines are first exposed and leaf wetness occurs. Repeat applications at 7 to 10 day intervals. Use the highest rate and shortest interval when plants are rapidly growing and disease conditions are severe.
Tomato	0	FOLIAGE (apply every 7-10 days): Early blight, Late blight, Gray leaf spot, Gray leaf mold, Septoria leaf spot, Target spot  FRUIT (apply every 7-14 days beginning at fruit set): Anthracnose, Alternaria fruit rot (black mold), Botrytis gray mold, Late blight fruit rot, Rhizoctonia fruit rot	2 ½ tsp. Per Application,  18 tsp. Per Year	Begin applications when dew or rain occur and disease threatens. Use the highest rate and shortest interval specified when disease conditions are severe. ECHO may be combined in the spray tank with EPA-registered pesticide products that claim copper as the active ingredient and are labeled for control of bacterial diseases of tomatoes. Check the copper manufacturer's label for specific instructions, precautions and limitations prior to mixing with ECHO.

## FRUIT AND NUT TREE DISEASES

Apply this product in sufficient water to obtain uniform coverage of tree canopy, including the undersides of leaves, to the point of spray runoff. Mix the indicated rate of ECHO LITE into each 4 gallons of water to be used for each application, generally sufficient to treat 200 square feet.

Do not apply closer to harvest than the indicated **Preharvest Interval (PHI)** for each type of crop.

Note: Avoid spraying plants during extremely hot and sunny weather. **DO NOT apply ECHO within one week before or after application of oil or an oil-based pesticide.** Do not graze treated areas or feed treated plant parts to livestock.

tsp. = teaspoonful (1/6 fluid ounce)

Crop	PHI (days)	Diseases	RATE PER 4 GALLONS	Application Directions
Blueberry	42	Mummy Berry, Anthracnose	3 ½ tsp. Per Application, 10 ½ tsp. Per Year	Begin applications at budbreak (green tip). Repeat applications until early bloom at 10 day intervals. DO NOT apply after early bloom, otherwise phytotoxicity may occur to the developing fruit.
Filberts (Hazelnuts)	120	Eastern filbert blight	3 ½ tsp. Per Application, 10 ½ tsp. Per Year	Begin applications at leaf bud break and repeat at 2 to 4 week intervals. Based on available residue data, use of this product on filberts is restricted to Oregon.
Papaya	14	Alternaria fruit spot, Anthracnose, Stem end rot	2 ¾ tsp. Per Application, 8 tsp. Per Year	Begin treatment when conditions favor development of disease and continue treatments at 14 day intervals until weather conditions no longer favor disease development.
Passion Fruit (Hawaii only)	7	Alternaria fruit and leaf spot (brown spot)	2 tsp. Per Application, 9 tsp. Per Year	Apply in sufficient water to obtain adequate coverage of fruit and leaves. Begin applications before fruit spots appear (April to July) and re-apply at 14 day intervals until weather conditions no longer favor disease development.
Stone Fruits: Peach, Nectarine, Apricot, Cherry, Plum, Prune	Do not apply after shuck split	Leaf curl		Apply at leaf fall in late autumn. When conditions favor high disease levels apply once or twice more in mid to late winter before budswell.
		Shothole, Brown rot blossom blight, Lacy (russet) scab on prune, Cherry leaf spot, Scab	3 ¾ tsp. Per Application, 18 ¾ tsp. Per Year	Make one application at budbreak or popcorn (pink, red or early white bud). If weather conditions favor disease, make a second application 10 days later (full bloom to petal fall). Apply at shuck split to prevent infections on young fruit. If additional disease control is needed after shuck split and before harvest, use another registered fungicide.



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### ORNAMENTAL GARDEN PLANTS

Apply ECHO LITE at a rate of 2 ¼ teaspoons per gallon, or 3 Tablespoons (1½ fluid ounces) per 4 gallons of water unless other directions are given in the tables below. Apply enough diluted spray per acre to provide thorough coverage of all plant parts that are intended to be protected from disease, generally ranging from ½ to 3 gallons per 1,000 square feet of garden area. Repeat applications at 7 to 14 day intervals until conditions are no longer favorable for disease. During periods when conditions favor severe disease incidence, generally cloudy or wet weather, apply ECHO LITE at 7 day intervals. **DO NOT apply more than a total of 37 fluid ounces of ECHO LITE (0.84 lbs chlorothalonil active ingredient) per 1,000 sq.ft. per growing season on field-grown ornamentals.**

Fruits and other structures which may be borne on treated plants **MUST NOT BE EATEN.**

This product may be used in greenhouses. DO NOT use mistblowers or high pressure spray equipment when making applications of this product in greenhouses.

ECHO is recommended for control of fungal diseases referred to by numbers in parentheses following each type of ornamental plant. The user should test for possible phytotoxic responses, using recommended rates on each type of ornamental plant on a small area prior to widespread use. Applications made during bloom may damage flowers and/or fruits.

#### ORNAMENTALS RECOMMENDED FOR TREATMENT WITH ECHO LITE

Broadleaf Shrubs and Trees	
Andromeda ( <i>Pieris</i> ) (4)	Holly (1)
Ash ( <i>Fraxinus</i> ) (1)	Lilac (5)
Aspen (1)	Magnolia (1)
Azalea (1,2,4)	Maple (1)
Buckeye, Horsechestnut (1)	Mountain laurel (1)
Camellia (2)	Oak (red group only) (1,7)
Cherry-laurel (1)	Oregon-grape ( <i>Mahonia</i> ) (6)
Crabapple (1,6)	Red-tip ( <i>Photinia</i> ) (1)
Dogwood (1)	Poplar (1)
Eucalyptus (3)	Privet ( <i>Ligustrum</i> ) (1)
Euonymus (1)	Rhododendron (1,2,4)
Firethorn ( <i>Pyracantha</i> ) (1)	Sand cherry (1,2)
Flowering almond (1,2)	Sequoia (1)
Flowering cherry (1,2)	Spirea (1)
Flowering peach (1,2)	Sycamore, Planetree (1)
Flowering plum (1,2)	Viburnum (5)
Flowering quince (1,2)	Walnut ( <i>Juglans</i> ) (1)
Hawthorn (1,6)	

Flowering <sup>a</sup> Plants and Bulbs	
Arabian violet (2)	Lily (1)
Begonia (1)	Marigold (1)
Carnation (1,2)	Narcissus (1)
Chrysanthemum (1,2)	Pansy (1)
Crocus (1)	Petunia (1,4)
Daffodil (1)	Phlox (1)
Daisy (1)	Poinsettia <sup>b</sup> (1)
Geranium (1,6)	Rose <sup>c</sup> (1)
Gladiolus (1,2)	Statice (1)
Hollyhock (6)	Tulip (1)
Hydrangea (foliage only) (1,6)	Zinnia (1,5)
Iris (1,2)	

a/ Avoid applications during bloom period on plants where flower injury is unacceptable.

b/ Discontinue applications prior to bract formation; phytotoxicity is possible on the bracts.

c/ Use 1½ Tbs. of ECHO LITE per 4 gallons of water.

Foliage Plants	
Aglaonema (1)	Lipstick plant (1)
Areca palm (1)	Ming aralia (1)
Artemesia (1)	Oyster plant ( <i>Rhoeo</i> ) (1)
Boston fern ( <i>Nephrolepis</i> ) (1)	Pachysandra <sup>d</sup> (1)
Dracaena (1)	Parlor palm ( <i>Chamaedorea</i> ) (1)
Dumbcane ( <i>Dieffenbachia</i> ) (1)	Peperomia (1)
Fatsia ( <i>Aralia</i> ) (1)	Philodendron (1,4)
Ficus (1)	Prayer plant ( <i>Maranta</i> ) (1)
Florida ruffle fern (1)	Syngonium (1)
Leatherleaf fern (1)	Zebra plant ( <i>Aphelandra</i> ) (1)

d/ Use 4 Tbs. of ECHO LITE per 4 gallons of water.

**Diseases controlled with ECHO LITE:**

<b>1. Leafspots &amp; Foliar Blights:</b>	
Actinopelte leafspot Alternaria leafspot or leaf blight Anthracnose ( <i>Gnomonia</i> , <i>Glomerella</i> , <i>Colletotrichum</i> , <i>Discula</i> ) blights Black spot ( <i>Diplocarpon</i> ) Botrytis blights Cephalosporium leafspot Cercospora leafspot Cercosporidium leafspot Shothole ( <i>Stigmina</i> ) Corynespora stem & leafspots Curvularia leafspot Dactylaria leafspot Didymellina leafspot Drechslera ( <i>Bipolaris</i> ) leafspots, inkspot	Fabraea (Entomosporium) leafspot Fusarium ( <i>Gibberella</i> ) leafspot Gloeosporium black leafspot Marssonina leafspot Monilinia blossom blight, twig blight Mycosphaerella ray blight Myrothecium leafspot, brown rot Phyllosticta leafspot Ramularia leafspot Rhizoctonia web blight Scab ( <i>Venturia</i> ) Septoria leafspot Sphaeropsis leafspot Stagonospora leaf scorch Tan leafspot ( <i>Curvularia</i> ) Volutella leaf blight
<b>2. Flower Spots &amp; Blights:</b>	
Botrytis flower spot, flower blight Curvularia flower spot Monilinia blossom blight	Ovulinia flower blight Rhizopus blossom blight Sclerotinia flower blight
<b>3. Cylindrocladium stem canker</b>	
<b>4. Phytophthora leaf blight, dieback</b>	
<b>5. Powdery mildews:</b>	
<i>Erysiphe cichoracearum</i> <i>Sphaerotheca fuliginea</i>	<i>Microsphaera</i> spp.
<b>6. Rusts:</b>	
<i>Gymnosporangium</i> spp. <i>Pucciniastrum hydrangeae</i>	<i>Puccinia</i> spp.
<b>7. Taphrina blister</b>	

### CONIFER DISEASES

Apply this product in sufficient water to obtain uniform coverage of tree canopy, including the undersides of leaves, to the point of spray runoff. Mix the indicated rate of ECHO LITE into each 4 gallons of water to be used for each application, generally sufficient to treat 200 square feet. Do not apply more than 16 fluid ounces (100 teaspoonfuls) of ECHO LITE per 1,000 square feet per year on field-grown conifers. Note: Avoid spraying plants during extremely hot and sunny weather. **DO NOT apply ECHO within one week before or after application of oil or an oil-based pesticide.** Do not graze treated areas or feed treated plant parts to livestock.

tsp. = teaspoonful (1/6 fluid ounce)

Diseases	RATE PER 4 GALLONS	Application Directions
Scleroderris canker (pines), Swiss needlecast, Sirococcus tip blight, Rhizosphaera needlecast (spruces), Scirrhia brown spot (pines)	5 tsp. Per Application	Make the first application in spring when new shoot growth is 1/2 to 2 inches in length. Make additional applications at 3 to 4 week intervals until conditions no longer favor disease development. For use in nursery beds, apply the highest rate specified on a 3 week schedule.
Cyclaneusma and Lophodermium needlecasts (pines)		Apply in early spring prior to budbreak. Repeat applications at approximately 6 to 8 week intervals, until spore release ceases in late fall. Apply monthly during periods of frequent rainfall, and where Lophodermium infections occur during dormancy (Pacific Northwest). During drought periods, applications may be suspended, then resumed upon next occurrence of needle wetness.
Rhabdocline needlecast (Douglas-fir)		Apply at budbreak and repeat at 3 to 4 week intervals until needles are fully elongated and conditions no longer favor disease development. When irregular budbreak occurs, apply weekly until all trees have broken bud, then every 3 to 4 weeks as specified above. In nursery beds, apply on a 3 week schedule.
Botrytis seedling blight, Phoma twig blight		Begin applications in nursery beds when seedlings are 4 inches tall and when cool, moist conditions favor disease development. Make additional applications at 7 to 14 day intervals as long as disease favorable conditions persist.
Autoecious needle rust (Weir's cushion rust) (spruces)		Begin applications in nursery beds when 10% of buds have broken and repeat twice thereafter at 7-10 day intervals.

## STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

**Pesticide Storage:** Store in a cool place. Protect from excessive heat.

**Pesticide Disposal:** Pesticide wastes are toxic. Improper disposal of excess pesticide, pesticide spray or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

### Container Disposal:

*(For small homeowner-use containers)*

Nonrefillable container. Do not reuse or refill this container. If empty: Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

*(For >50 gallon containers sold to non-homeowners)*

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

## WARRANTY AND LIMITATION OF DAMAGES

**CONDITIONS OF SALE:** To the extent consistent with applicable law, Sipcam Agro USA, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in accordance with the directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal use conditions, or under conditions not reasonably foreseeable to Sipcam Agro USA, Inc.. **SIPCAM AGRO USA, INC. DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, SIPCAM AGRO USA, INC. SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, AND SIPCAM AGRO USA, INC.'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE. BUYER AND USER ACKNOWLEDGE AND ASSUME ALL RISKS AND LIABILITY RESULTING FROM HANDLING, STORAGE AND USE OF THIS PRODUCT. SIPCAM AGRO USA, INC. DOES NOT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTY, GUARANTEE OR REPRESENTATION CONCERNING THIS PRODUCT.**