

Fungicide **LENAPE™**

**Prevents and controls phytophthora rots
in apples, avocados, ornamentals
peaches and pineapples**

ACTIVE INGREDIENT: % BY WT.

Aluminum tris (0-ethyl phosphonate): 80.0%

INERT INGREDIENTS: 20.0%

TOTAL: 100.0%

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

See Inside for Additional Precautionary Statements and Directions for Use



CROWNBRIDGE

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GENERAL INFORMATION:

LENAPE WP Systemic Fungicide can be used to control Anthracnose, Phytophthora, Downy Mildew, Blue Mold, Purple Blotch, Red Stele, Blister Spot, Pythium and to suppress White Rust and Phomopsis Canker. **LENAPE** WP Systemic Fungicide is completely systemic. Product applied to leaves will move downwards to the roots. **LENAPE** WP Systemic Fungicide is most effective when used as a preventative treatment. Plants displaying early disease symptoms, or when conditions for disease are favourable, are most likely to benefit from this treatment.

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. Wear chemical-resistant gloves, long coveralls (with hood) over normal clothes and hat during mixing/loading, application, cleanup and repair activities. Do not re-enter treated area until residues have dried. Workers harvesting tobacco should wear long coveralls and gloves. Avoid breathing dust. Avoid contact with skin, eyes and clothing. Wash concentrate from skin or eyes immediately. After use, wash hands and other exposed skin. Wash hands and face before eating, drinking, smoking or using the toilet. 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. Store the container tightly closed away from seeds, fertilizer, plants and foodstuffs. Keep away from ponds, streams and other water sources. If this pest control product is to be used on a commodity that may be exported and you require information regarding Maximum Residue Limits for an importing country, please contact CROWNBRIDGE MANAGEMENT L.P. <http://crownbridgetrading.com/>

FIRST AID: If in eyes: Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice. If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice. If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice. If swallowed: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

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

TOXICOLOGICAL INFORMATION:

No specific antidote. Treat symptomatically.

STORAGE:

Store **LENAPE** WP Systemic Fungicide in a dry, ventilated place away from feed, seed or foodstuffs. Unused product should be stored in original bag. Fold bag over and staple securely. **LENAPE** WP Systemic Fungicide left exposed to the air will absorb moisture over time and become unusable. If the product becomes caked or lumpy, do not use.

DISPOSAL:

1. Empty bag thoroughly.
2. Follow provincial instructions for any required additional cleaning of the bag prior to its disposal.
3. Make the empty bag unsuitable for further use.

4. Dispose of the bag in accordance with provincial requirements.
5. For information on disposal of unused or unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the PEST CONTROL PRODUCTS ACT to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, please note that **LENAPE WP Systemic Fungicide** contains a Group 33 fungicide. Any fungal population may contain individuals naturally resistant to **LENAPE WP Systemic Fungicide** and other Group 33 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 **LENAPE WP Systemic Fungicide** or other 33 fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicide from a different group when such use is permitted.
- Fungicide use should be based on an IPM 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 **CROWNBRIDGE MANAGEMENT L.P.** if reduced sensitivity of the pathogen to **LENAPE WP Systemic Fungicide** is suspected.
- If disease continues to progress after treatment with this product, do not increase the use rate. Discontinue use of this product, and switch to another fungicide with a different target site of action, if available.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.

DIRECTIONS FOR USE

CROWNBRIDGE MANAGEMENT L.P. has determined that phytotoxicity from solubilized copper may occur if products containing copper are tank-mixed with LENAPE WP Systemic Fungicide or if unbuffered LENAPE WP Systemic Fungicide is applied to foliage with copper residues.

Do not tank-mix with copper compounds. When applied prior to or after copper compounds, the pH of LENAPE WP Systemic Fungicide should be raised to 6.0 or above with the addition of an alkaline buffer such as Potassium Carbonate (1.4 kg Potassium Carbonate to 2.3 kg (LENAPE WP) Systemic Fungicide or DiAmmonium Phosphate (2.3 kg DiAmmonium Phosphate to 2.3 kg LENAPE WP) Systemic Fungicide.

Adjuvants which enhance pesticide penetration may cause phytotoxicity when mixed with LENAPE WP Systemic Fungicide.

Mixing LENAPE WP Systemic Fungicide with surfactants or foliar fertilizers is not recommended. Crop sensitivity to a particular combination should be determined by spraying a small area of foliage and fruit. Evaluate 3-7 days later for adverse effects.

APPLES – CONTROL OF PHYTOPHTHORA CROWN AND ROOT ROT

LENAPEWP Systemic Fungicide is registered for ground application only and can be used as either a foliar spray or as a drench treatment to control crown and root rot. While either method is equally effective, the drench treatment may be the more efficient method for young trees without adequate foliage, and the foliar method the more convenient for larger trees.

Foliar application is the only recommended application method for bearing apple trees. **DO NOT** use a drench treatment for the application of LENAPEWP Systemic Fungicide on bearing apple trees. Maintain a buffer zone of 8 meters between areas to be sprayed and aquatic environments.

DO NOT APPLY BY AIR.

FOLIAR APPLICATION:

Apply at 3-5 kg of product per hectare. Apply in a water volume not greater than 1000 L/ha. Spray to wet. Do not apply to run-off. Maximum of 3 applications per year.

TIMING: Treat from tight cluster to pink when there is sufficient leaf area present to take up the spray. Treat again approximately 6 weeks later. Do not apply closer than 30 days before harvest. Treat again in the fall soon after harvest.

RE-ENTRY: Workers should not enter treated area until residues have dried.

DRENCH TREATMENT:

Use the appropriate dose rate as indicated in the table below. Apply as a high volume coarse spray (5 L of water per tree), using a handgun to drench the trunk and soil surrounding the tree. Maximum of 2 applications per year.

TREE DENSITY	DOSE RATE
Standard planting (up to 500 trees/ha)	10 grams/tree
High density planting (> 500 trees/ha)	5-10 grams/tree (maximum dose of 5.0 kg/ha)

TIMING: Make the first application in spring anytime after silver tip and again in early fall.

APPLES (MUTSU, JONAGOLD, GOLDEN DELICIOUS) - CONTROL OF BLISTER SPOT

Apply a maximum of three applications.

Begin application at petal fall with subsequent applications at 7 day intervals. Ground application only.

Observe a PHI of 30 days.

APPLICATION RATE: Apply at 2.0 kg product per hectare.

DO NOT APPLY BY AIR.

Note: Application of LENAPEWP Systemic Fungicide, for all uses on apples (Blister Spot, Crown/Root Rot) must not exceed 10 kg product/ha BEFORE HARVEST.

GREENHOUSE LETTUCE IN BRITISH COLUMBIA - CONTROL OF DOWNY MILDEW

Spray 30 g product/100 m² in 20L water/100m² within one week of transplanting and repeat the application after 2 weeks.

Do not apply within 14 days of harvest.

LETTUCE - CONTROL OF DOWNY MILDEW

Apply up to a maximum of five applications per year.

Apply when conditions favour disease development. Use a foliar spray by ground application only.

APPLICATION RATE: Apply at 2.8 kg product per hectare.

Apply in a minimum of 150 L water/hectare. Observe a PHI of 7 days. Do not re-enter treated areas within 12 hours of application.

DO NOT APPLY BY AIR.

SPINACH - SUPPRESSION OF DOWNY MILDEW (*Peronospora farinose* f. sp. *Spinaciae*) AND WHITE RUST (*Albugo occidentalis*)

Apply LENAPE WP as a foliar spray when conditions favour disease development (e.g.: high moisture and moderate temperatures) and continue on a 7 day interval. Use a sufficient volume of water for good coverage. With moderate to heavy disease pressure the higher rates of LENAPE WP Systemic Fungicide and a shorter spray interval should be used. (Check with your Cooperative Extension Service if you are unsure about whether these conditions exist).

APPLICATION RATE: Apply 3.38 – 4.5 kg product per hectare.

Apply in a minimum of 150 L water/hectare. Observe a PHI of 3 days. Do not re-enter treated areas within 12 hours of application. Apply up to a maximum of seven (7) applications per year.

DO NOT APPLY BY AIR.

ONIONS - CONTROL OF DOWNY MILDEW AND PURPLE BLOTCH

Apply up to a maximum of five applications per year.

Apply when conditions favour disease development. Use a foliar spray by ground application only.

APPLICATION RATE: Apply at 2.8 kg product per hectare.

Apply in a minimum of 150 L water/hectare. Observe a PHI of 7 days. Do not re-enter treated areas within 12 hours of application.

DO NOT APPLY BY AIR.

RED/BLACK RASPBERRY, BLACKBERRY – CONTROL OF PHYTOPHTHORA ROOT ROT

Apply a maximum of four (4) applications per year - 2 in the spring and 2 in the fall.

Spring Applications: Apply the first spray after bud break at 7 cm new growth and then again 3-4 weeks later.

Fall Applications: Apply when conditions favour disease development (high soil moisture and cool temperatures) and then repeat if necessary 3-4 weeks later. The last fall application should be made at least 30 days prior to leaf drop.

DO NOT APPLY within 60 days of harvest.

APPLICATION RATE: Apply at 5.5 kg product per hectare in a minimum of 200 – 1000 L water per hectare.

DO NOT APPLY BY AIR.

CRANBERRY - CONTROL OF PHYTOPHTHORA ROOT ROT (*Phytophthora Spp.*)

Apply a maximum of four (4) applications per year. Apply as a foliar spray when conditions become favourable for disease development. Continue applications on a 30 day intervals, mixed with water in application volumes greater than 150 L/ha.

DO NOT APPLY within 3 days of harvest (PHI = 3 days) or exceed 22 kg per hectare per year.

Do not re-enter treated areas within 12 hours of application

APPLICATION RATE: Apply 5.5 kg product per hectare.

DO NOT APPLY BY AIR.

GRAPES (except table grapes) - CONTROL OF GRAPE DOWNY MILDEW (*Plasmopara viticola*)

Apply a maximum of seven (7) applications per season. Apply as a foliar spray when conditions become favourable for disease development (e.g. high moisture and moderate temperatures). Continue applications on 7 - 14 day intervals, mixed with water in application volumes greater than 150 L/ha. DO NOT APPLY within 15 days of harvest (PHI = 15 days) or exceed 26.25 kg per hectare per year. Do not re-enter treated areas within 6 days of application. Maintain a buffer zone of 8 metres between areas to be sprayed and aquatic environments.

APPLICATION RATE:: Apply 3.75 kg product per hectare. **DO NOT APPLY BY AIR.**

TABLE GRAPES - CONTROL OF DOWNY MILDEW (*Plasmopara viticola*)

Apply a maximum of seven (7) applications per season. Apply as a foliar spray when conditions become favourable for disease development (e.g. high moisture and moderate temperatures). Continue applications on 12 - 14 day intervals, mixed with water in application volumes greater than 150 L/ha.

DO NOT APPLY within 15 days of harvest (PHI = 15 days) or exceed 26.25 kg per hectare per year.

Do not re-enter treated areas within 11 days of application to perform girdling or cane turning, or within 6 days of application for all other activities. Maintain a buffer zone of 8 metres between areas to be sprayed and aquatic environments.

APPLICATION RATE: Apply 3.75 kg product per hectare.

DO NOT APPLY BY AIR.

STRAWBERRY - CONTROL OF RED STELE

Apply a maximum of four (4) applications per crop season. Use a foliar spray by ground application only. Begin application when plants start active growth. Repeat at 30-60 day intervals. Observe a PHI of 30 days.

APPLICATION RATE: Apply at 5.6 kg product/ha.

DO NOT APPLY BY AIR.

GREENHOUSE ORNAMENTALS - CONTROL OF PYTHIUM AND PHYTOPHTHORA

(Chinese evergreen (*Aglaonema*), *pothos*, *shefflera*, *spathiphyllum*, *azalea*)

Foliar Applications:

Apply a maximum of 3 applications. Apply at 14-30 day intervals.

Application Rate: Apply at a rate of 2.8 kg product/ha.

DO NOT APPLY BY AIR.

BEDDING PLANTS - CONTROL OF PYTHIUM AND PHYTOPHTHORA

(Begonia, Geranium, Vinca, Celosia, Petunia, Salvia and Impatiens)

Foliar Applications:

Apply a maximum of 3 applications at 14 day intervals

Application Rate: Apply at a rate of 2.8 kg product/ha.

DO NOT APPLY BY AIR.

Drench Applications:

Apply a maximum of 3 applications, one application every 30 days. Apply before disease onset.

Application Rate: Use 360 g product/380 L water to cover 36m²

DO NOT APPLY BY AIR.

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

The DIRECTIONS FOR USE for this product described below were developed by persons other than CROWNBRIDGE MANAGEMENT L.P. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion Program. CROWNBRIDGE MANAGEMENT L.P. itself makes no representation or warranty with respect to performance (efficacy) and/or crop tolerance (phytotoxicity) claims for this product when used on the crops described below.

Accordingly, the Buyer and User assume all risks related to performance and crop tolerance arising, and agree to hold CROWNBRIDGE MANAGEMENT L.P. harmless from any claims based on efficacy and/or phytotoxicity in connection with the uses described below.

GINSENG – CONTROL OF PHYTOPHTHORA, FOLIAR AND ROOT ROT

Apply a maximum of five (5) applications per year as follows:

Make first application at full emergence. Repeat once between full emergence and seed set if environmental conditions require it. Apply again at seed set, once between seed set and pre-senescence (if required), final application at pre-senescence.

Observe a PHI of 31 days.

APPLICATION RATE: Apply at 5.5 kg product per hectare in a minimum of 200 L water per hectare.

Do not use with any spreader/sticker.

DO NOT APPLY BY AIR.

RUTABAGA – CONTROL OF DOWNY MILDEW (*Hyaloperonospora parasitica*)

Apply every 7 days, as needed at a maximum of 5 applications per year. Apply when conditions favour disease development. Use a foliar spray by **ground application only**. Observe a 7-day PHI. Do not re-enter treated areas within 12 hours.

Application Rate: Apply at 2.25 to 3.125 kg product/ha in a minimum of 100 L water per hectare.

DO NOT APPLY BY AIR.

TOBACCO (Flue-Cured, Burley, Black) - CONTROL OF BLUE MOULD

LENAPE WP Systemic Fungicide is for ground application only as a foliar spray for the control of blue mould. Apply a maximum of 3-4 applications per year. **Do not apply more than 10 kg of product per year per ha.** Maintain a buffer zone of 15 metres between the areas to be sprayed and aquatic environments.

APPLICATION RATE: Apply at 2.5 - 3.25 kg product/ha in 450 - 560 L of water per hectare. Ensure thorough coverage of plants. Apply on a 7-14 day schedule. LENAPE WP Systemic Fungicide should be used as a preventative treatment. Do not apply within 5 days of harvest.

DO NOT APPLY BY AIR.

BRASSICA HEAD AND STEM VEGETABLES (CROP GROUP 5-13*) and BRASSICA LEAFY VEGETABLES (CROP GROUP 4-13B) and KOHLRABI - CONTROL OF DOWNY MILDEW (*Hyaloperonospora parasitica*)**

*Crop Group 5-13: Broccoli, Brussels Sprouts, Cabbage, Chinese Cabbage (Napa), Cauliflower, Cultivars, hybrids, and varieties of these commodities

** Crop Subgroup 4-13B: Arugula, Broccoli Raab (rapini), Chinese Broccoli (gai lon), Abyssinian Cabbage, Seakale Cabbage, Chinese Cabbage (Bok Choy), Collards, Garden Cress, Upland Cress, Hanover Salad, Kale, Maca, Mizuna, Mustard Greens, Radish Leaves, Rape Greens, Wild Rocket, Shepherd's Purse, Turnip Greens, Watercress, Cultivars and Varieties and Hybrids of these commodities.

Apply a maximum of 5 applications per crop season. Apply when conditions favour disease development, and continue in 7-14 day intervals. Use a foliar spray by **ground application only**. Observe a 7-day PHI. Do not re-enter treated areas within 12 hours.

APPLICATION RATE: Apply at 2.25 to 3.125 kg product/ha.

DO NOT APPLY BY AIR.

BELGIAN ENDIVE – CONTROL OF PHYTOPHTHORA ROOT ROT (*Phytophthora sp.* and *P. cryptozea*)

Post-Harvest:

Apply 1 direct spray application 7 days after harvest of roots, right before start of forcing period, at 15 g /m² in 4 Litres of water.

For use on roots for Belgian endive (chicon) production only

Observe a 21-day PHI.

DO NOT APPLY BY AIR.

CONTROL OF PHYTOPHTHORA ROOT ROT (*Phytophthora cinnamomi*) AND ANTHRACNOSE FRUIT ROT (*Colletotrichum gloeosporioides*), AND SUPPRESSION OF PHOMOPSIS CANKER (*Phomopsis vaccini-i*) IN Highbush Blueberries

Application Method for Phytophthora Root Rot ONLY: For spring applications, apply the first spray when there is 7 cm of new growth and continue on a 14-21 day interval. Use a sufficient volume of water for good coverage.

Application Method: Begin foliar sprays in the spring at approximately the pink bud stage and continue on a 14-21 day interval. Use a sufficient volume of water for good coverage.

APPLICATION RATE: Apply at 5.6 kg product/ha

DO NOT APPLY BY AIR.

Restrictions:

Observe a PHI of 1 day

Do not exceed 22.4 kg product/ha per year.

Do not apply more than 4 times per year.

Use sufficient water volume for good coverage of blueberry bush. Apply in a spray volume of 300-1000 L/ha.

Maintain a buffer zone of 8 meters between areas to be sprayed and aquatic environments.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

GREENHOUSE-GROWN BRASSICA HEAD AND STEM VEGETABLE TRANSPLANTS (CROP GROUP 5-13*) and GREENHOUSE-GROWN BRASSICA LEAFY GREEN TRANSPLANTS (CROP GROUP 4-13B) - CONTROL OF DAMPING-OFF caused by *Pythium spp.***

* Crop Group 5-13: Broccoli, Brussels Sprouts, Cabbage, Chinese Cabbage (Napa), Cauliflower, Cultivars, hybrids, and varieties of these commodities

** Crop Subgroup 4-13B: Arugula, Broccoli Raab (rapini), Chinese Broccoli (gai lan), Abyssinian Cabbage, Seakale Cabbage, Chinese Cabbage (Bok Choy), Collards, Garden Cress, Upland Cress, Hanover Salad, Kale, Maca, Mizuna, Mustard Greens, Radish Leaves, Rape Greens, Wild Rocket, Shepherd's Purse, Turnip Greens, Watercress, Cultivars and Varieties and Hybrids of these commodities.

Application Rate: 20 - 30 g product/100 m² in 20L water/100m². Use the higher rate when heavy disease pressure is expected either in the greenhouse or later when transplanted in the field.

Application Timing: Make the first application during the propagation stage. If pressure warrants, a second application may be made 7 days prior to transplanting to control late damping off.

Application Method: Drench application.

Restrictions:

Do not enter or allow worker entry into the treated area during the restricted-entry interval (REI) of 12 hours.

Pre-Harvest Interval: 7 days

GREENHOUSE CONTAINER AND FIELD-GROWN ORNAMENTAL PLANTS IN NURSERIES

AND LANDSCAPE PLANTINGS AND CONIFERS GROWN IN NURSERIES AND LANDSCAPE PLANTATION

For Suppression of Sudden Oak Death caused by *Phytophthora ramorum* on those ornamentals deemed susceptible to this disease by the Canadian Food Inspection Agency (CFIA). For a complete list of the ornamental species, refer to the publication “List of Plants Regulated for *Phytophthora ramorum* (Sudden Oak Death),” which is updated regularly.

LENAPE WP Systemic Fungicide is registered for ground application only as a foliar spray.

Foliar Application:

Apply at 5 kg of product per hectare. Apply in a water volume not greater than 1000 L/ha. Spray to wet. Do not apply to run-off. Maximum of 4 applications per year.

TIMING: Apply when conditions favour disease development (high soil moisture and cool temperatures), before disease onset, and repeat if necessary 2-3 weeks later. Treat when there is sufficient leaf area present to take up the spray; when leaves are actively growing, and at least 30 days prior to leaf drop in deciduous species.

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