

# LESCO®



# Stronghold™

Fungicide

For control of Pythium diseases on turf areas

**GROUP 21 FUNGICIDE**

**ACTIVE INGREDIENT:**

Cyazofamid\* ..... 34.5%

**OTHER INGREDIENTS:**..... 65.5%

TOTAL 100.0%

\*4-chloro-2-cyano-*N,N*-dimethyl-5-(4-methylphenyl)-1*H*-imidazole-1-sulfonamide (CA)

Contains 3.33 pounds Cyazofamid per gallon (400 grams per liter)

## KEEP OUT OF REACH OF CHILDREN CAUTION

See inside pages for complete Precautionary Statements and Directions for Use (including First Aid, Agricultural Use Requirements and Storage and Disposal).

640/9-2021 AP101416

EPA REG. NO. 71512-13-2217

EPA EST. NO. 2217-KS-2



2021.4809

**NET CONTENTS: 0.5 GALLON**

**#293004**

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**READ ENTIRE LABEL CAREFULLY  
AND USE ONLY AS DIRECTED.**

## FIRST AID

<b>If on skin:</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of soap and water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If in eyes:</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If swallowed:</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
<b>If inhaled:</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

### **HOTLINE NUMBER**

For **24-Hour Medical Emergency Assistance** (Human or Animal) Call **1.877.800.5556**.

For **Chemical Emergency, Spill, Leak, Fire or Accident**, Call **CHEMTREC 1.800.424.9300**.

# PRECAUTIONARY STATEMENTS

## Hazards to Humans and Domestic Animals

**CAUTION:** Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. DO NOT take internally.

## Personal Protective Equipment (PPE)

Applicators and other handlers must wear long-sleeved shirt and long pants, socks, shoes, and chemical resistant gloves made of any waterproof material.

Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Do not allow contact of contaminated clothing with unprotected skin. 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.

## Engineering Control Statements

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**IMPORTANT:** When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.

## User Safety Recommendations

Users Should:

- Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Wash contaminated clothing before reuse.

## Environmental Hazards

DO NOT apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. DO NOT contaminate waters when disposing of equipment wash waters or rinsate.

AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR. The interaction of many equipment- and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making decisions. Where states have more stringent regulations, they should be observed.

## DIRECTIONS FOR USE

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

FAILURE TO FOLLOW THE USE DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN PLANT INJURY OR POOR DISEASE CONTROL.

DO NOT apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### **Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170.

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

DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of twelve (12) hours.

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

- coveralls,
- chemical resistant gloves (made of any waterproof material), and
- shoes plus socks.

Sod and seed farms, commercial greenhouses and nurseries are within the scope of the Worker Protection Standard.

### **Non-Agricultural Use Requirements**

The requirements in this box apply to uses of this product that are not within the scope of the Worker Protection Standard for agricultural pesticides, 40 CFR part 170. The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. Turf grasses on golf courses and other nonresidential turf areas such as industrial parks, tank farms, professionally managed college and professional sports fields, commercial lawns and ornamental landscapes are not within the scope of the Worker Protection Standard. Keep children, pets, and unprotected persons out of the treated area until sprays have dried.

### **General Information**

LESCO® Stronghold Fungicide is a flowable suspension concentrate for control of Pythium and Downy mildew diseases on turf areas associated with golf courses (greens, tees and fairways), sod farms, seed farms, college and professional sports fields, residential and commercial lawns. LESCO Stronghold Fungicide can also be used to control Pythium, Phytophthora and Downy mildew diseases on ornamental plants in landscapes. Application by home-owners to residential turf is prohibited.

### **Turf**

LESCO Stronghold Fungicide controls Pythium blight, Pythium damping-off, Pythium root dysfunction, and Pythium root rot in turf. Within the rate range given for turf, use the lower rate for the shortest interval and higher rate for the longest interval. Under severe disease conditions, use the highest rate and shortest interval. Use only with ground application equipment.

Do not apply more than three applications of LESCO Stronghold Fungicide at the high use rate during any growing season. Do not apply more than two consecutive applications of LESCO Stronghold Fungicide. Subsequent applications should be alternated with another registered fungicide with a different mode of action. Do not apply more than 2.7 fl.oz./1000 sq.ft./year (3.0 lb a.i./acre/year).

## For Application to Turf:

Disease	Use Rate	Application Interval	Remarks
Pythium blight, Pythium damping-off	0.45 to 0.9 fl.oz. per 1000 sq.ft.	14 to 21 days	Apply as a preventative treatment at 0.45 to 0.9 fl.oz. in 2 to 4 gallons of water per 1,000 sq.ft. On established turf apply as a preventative treatment when conditions are favorable for disease development, or when first visible disease symptoms appear. During periods of prolonged favorable conditions use 0.45 fl.oz. on a 14-day interval. For newly seeded areas use 0.45 fl.oz. in 2 to 4 gallons per 1,000 sq.ft. immediately after seeding. Under severe conditions use the highest rate and the shortest interval.
Pythium root dysfunction	0.9 fl.oz. per 1000 sq.ft.	14 to 28 days	Apply as a preventative treatment every 21 to 28 days in the fall and spring when mean daily soil temperatures are between 50°F and 75°F. Curative applications should be made every 14 to 28 days based on the appearance of symptoms. Immediately follow application with 1/8 inch irrigation.
Pythium root rot	0.9 fl.oz. per 1000 sq.ft.	21 days	Apply as a preventative treatment every 21 days. Immediately follow application with 1/8 inch irrigation.

## ORNAMENTALS

### Soil Application

For control of damping-off, root and stem rot diseases of ornamentals, including conifers, grown in landscapes, apply LESCO Stronghold Fungicide as a soil drench or soil surface spray. Do not make more than 2 applications of LESCO Stronghold Fungicide per crop cycle for control of Pythium or Phytophthora soil borne diseases.

### Foliar Application

For foliar applications, apply sufficient spray solution to thoroughly wet the foliage to the point of run-off (generally not to exceed 100 gallons per acre). Do not apply more than two consecutive applications of LESCO Stronghold Fungicide during any growing season. LESCO Stronghold Fungicide should then be alternated with another registered fungicide with a different mode of action. Do not make more than 4 applications of LESCO Stronghold Fungicide per crop cycle for control of downy mildews or Phytophthora foliar diseases.

Applications of LESCO Stronghold Fungicide should begin when conditions are favorable for disease development or when plants first exhibit disease symptoms, from germination to mature crop.

### For Application to Ornamental Plants:

Disease	Product Rate per 100 gallons	Comments
Pythium crown and root rots and damping-off	1.5 to 3.0 fl.oz.	Make applications on a 14 to 28 day interval using another registered fungicide with a different mode of action between applications of LESCO Stronghold Fungicide. Within the rate range, use the lower rate and shortest interval and the higher rate at the longest interval. When disease is severe use the highest rate at the shortest interval.

*(cont. on next page)*



## For Application to Ornamental Plants (cont.):

<b>Disease</b>	<b>Product Rate per 100 gallons</b>	<b>Comments</b>
Phytophthora crown and root rots and foliar blights.	3.0 to 6.0 fl.oz.	Make applications on a 14 to 28 day interval using another registered fungicide with a different mode of action between applications of LESCO Stronghold Fungicide. Use the shortest interval when disease conditions are severe. For foliar applications, apply sufficient product to wet all foliage to the point of run-off (generally not to exceed 100 gallons per acre).
Downy mildews	2.1 to 3.5 fl.oz.	Apply on a 14 to 21 day schedule (refer to the additional directions given in the Foliar Application paragraphs above). Within the rate range, use the lower rate at the shortest interval and the higher rate at the longest interval. When disease conditions are severe use the highest rate and shortest interval. Apply sufficient volume (normally 50 to 100 gallons per acre) to wet all foliage to the point of run-off. If water volumes used are less than 50 gallons per acre, an organosilicone surfactant should be added when the disease infection is severe, or a non-ionic surfactant or a blend of an organosilicone and a non-ionic surfactant should be added when disease infection is moderate or light, according to the manufacturer's label recommendations.

## **Integrated Pest Management**

LESCO Stronghold Fungicide is an excellent disease control agent when used according to label directions for control of several Oomycete fungi. Although LESCO Stronghold Fungicide has limited systemic activity, it should be utilized as a protectant fungicide and applied before the disease infects the crop.

Depending upon the level of disease pressure, good protection of the crop against disease can be expected over a period of 7 to 28 days.

LESCO Stronghold Fungicide is recommended for use as part of an Integrated Pest Management (IPM) program, which may include the use of disease-resistant crop varieties, cultural practices, crop rotation, biological disease control agents, pest scouting and disease forecasting systems aimed at preventing economic pest damage. Practices known to reduce disease development should be followed. Consult your state cooperative extension service or local agricultural authorities for additional IPM strategies established in your area. LESCO Stronghold Fungicide may be used in State Agricultural Extension advisory (disease forecasting) programs that recommend application timing based upon environmental factors that favor disease development.

## **Resistance Management**

Some plant pathogens are known to develop resistance to products used repeatedly for disease control. LESCO Stronghold Fungicide's mode/target site of action is complex III of fungal respiration: ubiquinone reductase, Qi site (Fungicide Resistance Action Committee code 21). A disease management program that includes alternation and/or tank mixes between LESCO Stronghold Fungicide and other labeled fungicides that have a different mode of action and/or control pathogens not controlled by LESCO Stronghold Fungicide is essential to prevent disease resistant pathogen populations from developing. LESCO Stronghold Fungicide should not be utilized continuously nor tank mixed with fungicides to which the target diseases have developed resistance.

Since pathogens differ in their potential to develop resistance to fungicides, follow the directions outlined in the "Directions For Use" section of this label for specific resistance management strategies for each crop. Consult with your Federal or State Cooperative Extension Service representatives for guidance on the proper use of LESCO Stronghold Fungicide in programs that seek to minimize the occurrence of disease resistance. LESCO Stronghold Fungicide is not cross-resistant with other classes of fungicides that have different modes of action.

## **Plant Tolerance**

Note to User: Although LESCO Stronghold Fungicide has been evaluated on several plants with no indication of phytotoxicity, neither the manufacturer nor seller has determined whether or not LESCO Stronghold Fungicide can be used safely on ornamental

and nursery plants not specified on this label. The professional user should determine if LESCO Stronghold Fungicide can be used safely prior to commercial use by testing a small number of the type of plants to be treated at recommended rates for that particular group for phytotoxicity.

### **Mixing Instructions**

**NOTE:** Slowly invert LESCO Stronghold Fungicide container several times to assure uniform mixture of formulation before adding this product to the spray tank.

Fill the mixing tank with half of the required amount of water. The required amount of LESCO Stronghold Fungicide should be added slowly into the spray tank during filling to the required volume. Keep agitator running when filling spray tank and during spray operations. Do not allow spray mixture to stand overnight or for prolonged periods of time. Prepare only the amount of the spray mixture required for immediate use. Spraying equipment should be thoroughly cleaned immediately after the application is completed.

Apply LESCO Stronghold Fungicide in sufficient water to obtain adequate coverage of the foliage. Gallonage to be used will vary with crop and amount of plant growth.

### **Tank Mix Compatibility**

LESCO Stronghold Fungicide is physically compatible (no nozzle or screen blockage) with many products recommended for control of diseases and insects on turf grass and ornamental plants. Read and follow all manufacturer's label recommendations for the tank mix companion product. It is the applicator's responsibility to ensure that the companion product is EPA approved for use on the intended crop. LESCO Stronghold Fungicide is generally compatible with other insecticides, fungicides, fertilizers and micronutrient products provided sufficient free water is available for dispersion of all the tank mix products. However, the physical compatibility of LESCO Stronghold Fungicide with tank mix partners should be evaluated before use. A jar test should be conducted with intended tank-mix pesticides prior to preparation of large volumes. Use the following procedure: 1) Pour the recommended proportions of the products into a suitable container of water, 2) Mix thoroughly and 3) Allow to stand 5 minutes. If the combination remains mixed or can be re-mixed readily, it is considered physically compatible. Any physical incompatibility in the jar test indicates that LESCO Stronghold Fungicide should not be used in the tank mix.

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in original container, in a secured, dry place separate from fertilizer, food, and feed.

**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:** 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 and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

## LIMITED WARRANTY AND DISCLAIMER

**IMPORTANT:** Read this LIMITED WARRANTY AND DISCLAIMER before buying or using this product. By opening and using this product, buyer and all users agree to accept the terms of this LIMITED WARRANTY AND DISCLAIMER in their entirety and without exception. If the terms are not acceptable, return this product unopened immediately to the point of purchase, and the purchase price will be refunded in full.

It is impossible to eliminate all risks inherently associated with use of this product. Damage to the treated article, ineffectiveness, or other unintended consequences can result from use of the product under abnormal conditions such as weather, presence of other materials, or the manner of use or application, etc. Such factors and conditions are beyond the control of the manufacturer, and **BY PURCHASING AND USING THIS PRODUCT THE BUYER AND ALL USERS OF THIS PRODUCT AGREE TO ACCEPT ALL SUCH RISKS.** Buyer and all users further agree to assume all risks of loss or damage from the use of the product in any manner that is not explicitly set forth in or that is inconsistent with label instructions, warnings and cautions.

The manufacturer warrants only that this product conforms to the chemical description given on the label, and that the product is reasonably suited for the labeled use when applied according to the Directions for Use, subject to the inherent risks described below. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE MANUFACTURER NEITHER MAKES NOR INTENDS ANY OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY EXPRESSLY DISCLAIMED.**

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF BUYER AND ALL USERS OF THIS PRODUCT, AND THE EXCLUSIVE LIABILITY OF THE MANUFACTURER, FOR ANY AND ALL LOSSES, DAMAGES, OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION, TO REPLACEMENT OF OR THE REPAYMENT OF THE PURCHASE PRICE FOR THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO CASE SHALL THE MANUFACTURER BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL, OR SPECIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.** The Manufacturer must be promptly notified in writing of any claims, whether based in contract, tort, negligence, strict liability, or otherwise, to be eligible to receive either remedy stated above.

The terms of this LIMITED WARRANTY AND DISCLAIMER cannot be varied by any written or verbal statements or agreements at the point of sale or elsewhere. No employee or agent of the manufacturer or seller is authorized to vary or exceed the terms of this Limited Warranty and Disclaimer in any manner.

LESCO® is a registered trademark of LESCO, Inc.

Stronghold™ is a trademark of LESCO, Inc.

All other trademarks are the property of their respective owners.

Active ingredient made in Germany.

Formulated in the USA.

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**DISTRIBUTED BY:  
PBI/GORDON CORPORATION  
P.O. BOX 860350  
SHAWNEE, KANSAS 66286**

**MANUFACTURED FOR:  
LESCO, INC.  
1385 E. 36TH ST.  
CLEVELAND, OHIO 44114**

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