

ALUDE™

SYSTEMIC FUNGICIDE

For effective control of various plant diseases including black spot or scab in apple, downy mildew, Phytophthora & Pythium in ornamentals & bedding plants, Phytophthora in conifers, Pythium in turf and Phytophthora and Pythium diseases associated with stem and canker blight (sudden oak death) and general beech decline.

GROUP 33 FUNGICIDE

ACTIVE INGREDIENTS:

Mono- and di-potassium salts of Phosphorous Acid* 45.8%

OTHER INGREDIENTS 54.2%

TOTAL100%

*Contains 5.17 lbs/gallon of the active ingredients, mono and di-potassium salts of Phosphorous Acid. Equivalent to 3.35 lbs Phosphorous Acid/gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

- **IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
- **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 INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact the National Poison Control Hotline at 1-800-222-1222, 24 hours a day, 7 days a week.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS.

- **CAUTION** – Harmful if swallowed, inhaled or absorbed through skin. Avoid breathing vapors or spray mist. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

PERSONAL PROTECTION EQUIPMENT (PPE):

- Applicators and other handlers must wear protective eyewear, long pants and long-sleeved shirt, water-proof gloves, shoes plus socks.
Follow manufacturer's instructions for maintaining / cleaning personal protective equipment (PPE). If no such instructions for washables, use hot water and detergent. Keep and wash PPE separately from other laundry.
When handlers use closed systems, aircraft or enclosed cabs 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.



Manufactured for:
CLEARY CHEMICAL CORPORATION
 178 RIDGE ROAD, SUITE A
 DAYTON, NJ 08810-1501

EMERGENCY PHONE NUMBERS:
 M-F 9AM-5PM ET
 800-524-1662 • 732-329-8399
 24 Hour CHEMTREC
 800-424-9300

Accepted: 1.28.03
 Replaces: 1.27.07
 EPA REG. NO.: 71962-1-1001 Version: 12.10.07

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before drinking, eating, chewing gum, using tobacco or using the toilet.
- Remove PPE clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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 water when disposing of equipment wash waters or rinsate.

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 4 hours. PPE required for early entry to treated areas that are permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soils or water, is: coveralls worn over short-sleeved shirt and short pants, waterproof gloves, shoes plus socks and protective eyewear.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements of 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. Do not enter treated areas without protective clothing until sprays have dried.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Read entire label before using this product. 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 State or Tribal agency responsible for pesticide registration.

CHEMIGATION

Use of ALUDE™ through chemigation is not permitted in California.

Apply this product only through center pivot, solid set or drip (trickle) irrigation systems. Do not apply this product through any other type of irrigation system. Crop injury, lack of effectiveness or illegal pesticide residues in the crop can result from nonuniform distribution of treated water. If you have questions about calibration, contact State Extension Service specialists, equipment manufacturers or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

SPRINKLER AND DRIP (TRICKLE) IRRIGATION SYSTEMS: The irrigation system must contain a functional check valve, vacuum relief valve and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must contain a functional, automatic, quick-closing valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a

positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

SPRINKLER CHEMIGATION ONLY: Do not apply when wind speed favors drift beyond the area intended for treatment.

Apply ALUDE™ continuously for the duration of the water application. After treatment with ALUDE™ has been completed, avoid further irrigation of the treated area until foliage is dry or for 24 to 48 hours.

GENERAL APPLICATION INSTRUCTIONS

Apply ALUDE™ by various application methods, including foliar spray, soil drench, soil incorporation, basal bark application, and bare root dip. For foliar sprays, apply ALUDE™ with sufficient water volumes for adequate coverage of foliage, according to crop and growth stage. To ensure good coverage, spray to wetness, but avoid run-off.

MIXING INSTRUCTIONS

1. Fill the spray tank with $\frac{1}{4}$ - $\frac{1}{2}$ of the volume of water required before adding ALUDE™.
2. Add ALUDE™ slowly to the tank and agitate by mechanical or hydraulic means.
3. Continue agitating as tank fills with water to the desired volume.
4. Maintain agitation during application.

COMPATIBILITY

ALUDE™ is compatible with most products used in agriculture. However, individual crop sensitivity to these mixtures may vary. Mixtures of ALUDE™ with some foliar fertilizers and copper products are not always compatible or cause phytotoxicity to some plants. If these combinations or others have not been used previously, do not tank mix without first testing the compatibility of the tank mix. Do not apply tank mixture without first assessing its safety to the crop (phytotoxicity). Tank mix

ALUDE™ with fertilizers only if crop safety has been established and the ALUDE™ use rates are followed. Due to Alude's acidic nature, do not use acidifying-type compatibility agents. If spray adjuvants are used, test them before use to confirm compatibility with ALUDE™. Use a jar test to confirm compatibility with ALUDE™. In a clean jar using the same water source that is normally used to fill spray tank, add the same proportions of each product and the appropriate quantity of water and mix thoroughly. Let stand for 3 minutes. If mixture remains in solution or can be remixed readily, the tank mix is compatible. Spray the solution that resulted from the above compatibility test onto a few plants and inspected for visual effects of phytotoxicity (leaf burn) 3 to 7 days later.

AGRICULTURAL APPLICATIONS

APPLES, CRAB APPLES, LOQUATS, PEARS & QUINCE*

Use ALUDE™ for effective control of black spot, root and collar rot and fire blight in apples, crab apples, loquats, pears and quinces.

Disease	Application Method	Rate	Application Program
Apple black spot or scab (<i>Venturia inaequalis</i>)	Foliar spray	1/2 gallon per acre in 25-250 gallons water per acre	First application at open cluster. Last application at fifth cover or fruit at 2" to 2 1/2" diameter. Total of 10 applications at 10 to 12 day intervals. When conditions are conducive to a black spot outbreak, apply ALUDE™ immediately. NOTE: After 4 or 5 consecutive applications some yellowing of extension growth may be observed. If yellowing occurs use another fungicide until yellowing of leaves disappears.
Root and collar rot (<i>Phytophthora cactorum</i>) Fire Blight (<i>Erwinia amylovora</i>)	Foliar spray	Apply at 1 1/4-2 1/2 quarts per acre with a maximum of 250 gallons water per acre	One to two month intervals between treatments. Under high disease pressure use higher application rate and shorter spray interval. Ensure thorough coverage.

*Not for use in California.

CUCURBITS

Use ALUDE™ for effective control of sudden wilt, gummy stem blight, and downy mildew diseases in cucurbits grown in field situations such as, but not limited to, cucumber, Chinese waxgourd, citron melon, gherkin rock melon, honeydew melon, pumpkin, zucchini, watermelon and squash (summer and winter), momordica spp balsam apple, balsam pear, bitter melon, and Chinese cucumber.

Disease	Application Method	Rate	Application Program
Sudden wilt – Root and fruit rot (<i>Phytophthora</i> spp)	Foliar spray	Apply 1 1/4 quarts per acre in 40 gallons of water	Entire spray coverage of plant is required. Do not exceed a total of 6 applications per season.
Gummy stem blight (<i>Mycosphaerella melonis</i>)			Apply when disease is evident. Continue applications at 21 day intervals until cure is apparent. Do not exceed a total of 6 applications per season.
Downy mildew (<i>Pseudoperonospora cubensis</i>)			Apply within 7 to 10 days of infection. Repeat as necessary. Do not exceed a total of 6 applications per season.

CUCURBITS, TANK MIXTURES*

For the effective control of downy mildew diseases, tank-mix ALUDE™ with a mancozeb-containing fungicide and apply to cucurbits.

Product	Disease	Rate Per Acre	Application Program
ALUDE™ + mancozeb-containing fungicide	Downy mildew	Light to medium foliage cover: Apply 1 1/4-2 quarts of product per acre Heavy foliage cover: Apply 3 quarts of product per acre + Label rate of mancozeb	Apply as a foliar spray the indicated quantity and dilution rates with water of both products. For best results apply ALUDE™ as a tank mix with protectant fungicides such as mancozeb, copper oxychloride, etc., to ensure both pre- and post-infection activity.

*Not for use in California.

FRUITING VEGETABLES*

Use ALUDE™ for effective control of damping-off, root rot, and gummy stem blight diseases in egg plant, tomatoes, tomatillos, and peppers such as, but not limited to, bell, chili, cooking, pimento, and sweet.

Disease	Application Method	Rate	Application Program
Eggplant: <i>Pythium</i> and <i>Phytophthora</i> spp, and Gummy stem blight (<i>Mycosphaerella melonis</i>)	Foliar spray	Apply 1 1/4 quarts per acre in 40 gallons of water.	Entire spray coverage of plant is required. Do not exceed a total of 6 applications per season. Apply when disease is evident. Continue applications at 21-day intervals until cure is apparent. Do not exceed a total of 6 applications per season.
Peppers: Late blight and root rot (<i>Phytophthora infestans</i> and <i>Phytophthora</i> spp)	Foliar spray	1 1/2 quarts per acre in 25 gallons of water to 2 quarts per acre in 250 gallons of water	First application at transplant or when direct seeded crops are at 2-4 true leaf, then at one to two week intervals as required to control disease. In high disease situations use higher rates and shorter spray intervals.
Tomatoes/Tomatillos: Late blight and root rot (<i>Phytophthora infestans</i> and <i>Phytophthora</i> spp)	Foliar spray	1 1/2 quarts per acre in 25 gallons of water to 2 quarts per acre in 250 gallons of water California: 1 1/4 quarts per acre in 90 gallons of water	First application at transplant or when direct seeded crops are at 2-4 true leaf, then at one to two week intervals as required to control disease. In high disease situations use higher rates and shorter spray intervals

*Use in California limited to tomatoes and tomatillos.

LEAFY VEGETABLES*

Use ALUDE™ for effective control of downy mildew in leafy vegetables such as, but not limited to, amaranth, arugula, cardoon, celery, chervil, corn salad, endive, fennel, lettuce, parsley, radicchio, rhubarb, spinach, and Swiss chard. Excludes Brassica vegetables.

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LEAFY VEGETABLES* (continued from previous page)

Disease	Application Method	Rate	Application Program
Downy mildew (<i>Bremia lactucae</i>)	Foliar spray	1/2 gallon per acre in 40 gallons water	Ensure spray coverage is adequate to wet the whole plant. During warm, wet conditions repeat application at 7 to 10 day intervals, if needed.

***Use in California limited to lettuce.**

LEGUMES*

Use ALUDE™ for effective control of damping-off and root rot diseases in legumes (succulent and dried) such as, but not limited to, green beans, soybeans, wax beans, field beans, navy beans, lima beans, fava beans, kidney beans, pinto bean, mung beans, broad beans, lentils, chickpeas, English peas, snow peas, sugar snap peas, black-eyed peas, cow peas, and pigeon peas.

Disease	Application Method	Rate	Application Program
<i>Phytophthora</i> and <i>Pythium</i> spp	Foliar spray	1 1/2 quarts per acre in 25 gallons of water to 2 quarts per acre in 250 gallons of water.	Apply at 14-day intervals after plant emergence, as needed. Assure good coverage.

***Not for use in California.**

OKRA*

Use ALUDE™ for effective control of damping-off and root rot diseases in okra.

Disease	Application Method	Rate	Application Program
<i>Phytophthora</i> and <i>Pythium</i> spp	Foliar spray	1 1/2 quarts per acre in 25 gallons of water to 2 quarts per acre in 250 gallons of water.	Apply at 14-day intervals after plant emergence, as needed. Assure good coverage.

***Not for use in California.**

ONIONS

Use ALUDE™ for effective control of downy mildew disease in onions, garlic, shallots, and leeks. Use as a preventative control program for best results.

Disease	Application Method	Rate	Application Program
Downy mildew (<i>Peronospora destructor</i>)	Foliar spray	2 quarts per acre in 100 gallons water per acre	As a regular preventative control program or when disease first appears.

***Not for use in California.**

ONIONS, TANK MIXTURES*

For the effective control of downy mildew diseases, tank-mix ALUDE™ with a mancozeb-containing fungicide and apply to onions, garlic and shallots.

Product	Disease	Rate Per Acre	Application Program
ALUDE™ + mancozeb-containing fungicide	Downy mildew	2 quarts per acre in 100 gallons water per acre + Label rate of mancozeb	Apply as a foliar spray the indicated quantity and dilution rates with water of both products. For best results, apply ALUDE™ as a tank mix with protectant fungicides such as mancozeb to ensure both pre- and post-infection activity

***Not for use in California.**

ROOT AND TUBER VEGETABLES*

Use ALUDE™ for effective control of foliar and root rot in ginseng, damping-off and root rot diseases in carrots, and late blight disease and storage diseases such as pink rot and pythium leak in potatoes, sweet potatoes, and yams.

Disease	Application Method	Rate	Application Program
Ginseng: Foliar and root rot (<i>Phytophthora cactorum</i>)	Foliar spray	2 1/2 quarts in 100 gallons of water	In cool wet conditions that favor <i>Phytophthora</i> . Apply at 7 day intervals. Do not exceed a total of 8 applications per season.
Carrots: <i>Phytophthora</i> and <i>Pythium</i> spp	Foliar spray	1 1/2 quarts per acre in 25 gallons of water to 2 quarts per acre in 250 gallons of water	Apply at 14-day intervals after plant emergence, as needed. Assure good coverage.
Potatoes, Sweet Potatoes, Yams: Late blight, Pink rot and <i>Pythium</i> leak (<i>Phytophthora infestans</i> , <i>Phytophthora erythroseptica</i> and <i>Pythium</i> spp)	Foliar spray	1 1/4 quarts per acre in 90-375 gallons water per acre	Apply at 5 to 14 day intervals subject to disease incidence.

***Use in California limited to potatoes, sweet potatoes, and yams.**

BRASSICAS

Use ALUDE™ for effective control of downy mildew in brassicas such as, but not limited to, broccoli, Brussel sprouts. Cabbage, cauliflower, cavolo broccolo, collards, Chinese cabbage, Chinese mustard cabbage, kale, kohlrabi, mizuna, mustard greens, mustard spinach and rape greens.

Disease	Application Method	Rate	Application Program
Downy Mildew – (<i>Peronospora parasitica</i>)	Foliar spray	1 1/4 quarts per acre in 25 gallons of water per acre to 2 1/2 quarts per acre in 250 gallons of water per acre California: 1 1/4 quarts per acre in 100 gallons of water to 2 1/2 quarts per acre in 185 gallons of water	1 to 3 week intervals between applications when conditions favor disease development (cool, moist weather). Use higher rates and shorter intervals when disease pressure increases.

GRASS GROWN FOR SEED PRODUCTION*

Use ALUDE™ for effective control of damping-off and root rot diseases in turfgrasses such as, but not limited to, Bermuda, fescue, bent, blue, rye, zoysia, buffalo, and poa annua.

Disease	Application Method	Rate	Application Program
<i>Phytophthora</i> and <i>Pythium</i> spp.	Foliar spray	1 1/2 quarts per acre in 25 gallons of water to 2 quarts per acre in 250 gallons of water.	Apply at 14-21 day intervals, as necessary. Ensure thorough coverage.

***Not for use in California.**

LANDSCAPE, GOLF COURSE, NURSERY, FORESTRY AND PARK APPLICATIONS*

Use ALUDE™ for effective control of Phytophthora and Pythium diseases associated with stem and canker blight (Sudden Oak Death, *Phytophthora ramorum*), Beech Decline and general tree decline syndromes in landscapes, nurseries, golf courses, forests and parks. Apply ALUDE™ to trees such as, but not limited to, Beech, Cedar, Chestnut, Crab Apple, Dogwood, Elm, Fir, Hawthorn, Juniper, Linden, Monterey Pine, Oaks (Coastal, Live, Shreve, Black, Canyon), Ornamental Pear, Pyracantha, Sweet Birch, Sweet Gum, White Pine, White Cedar and Willow.

Make applications before disease development and in conjunction with good cultural management practices. Use higher rate of application when disease pressure is severe. Do not exceed indicated application rates or apply more frequently than stated on label or tree injury may occur. Do not apply to trees that are heat or moisture stressed. Do not apply to trees that are in a state of dormancy. Do not exceed indicated spray intervals or label rates in order to avoid tree injury.

Disease	Application Method	Rate	Application Program
<i>Phytophthora</i> and <i>Pythium</i> spp. and <i>Phytophthora ramorum</i>	Injection	11 fl. oz. per 21 fl. oz. of water Or 1/2 tsp. per tsp of water	Drill holes 3/16 inch (5mm) in diameter into live sapwood (Depth dependent upon age of tree) with downward angle into trunk uniformly around the tree circumference, using a slow drill. Do not inject into areas of obvious decay, canker or mechanical injury that appear on the tree trunk. Calculate the amount of product required by measuring the trees by one of the following 3 methods and use the highest calculated number of injections. 1) 1 injection per square yard of canopy; 2) 1 injection per yard of diameter of canopy measured at the dripline; 3) 1 injection per 6 inches of trunk circumference measured 4 feet above soil level. Make injections with applicators that maintain positive pressure differential such as ChemJet®, Sidewinder®, Ag-murph Gun®, Marley® Injector, or hydraulic applicator type equipment that forces solution into the sapwood of the tree.
	Basal Bark Spray	62.4 fl. oz. + 62.4 fl. oz. of water + 3.2 fl. oz. Penetra-Bark™ Bark Penetrating Surfactant	Apply uniformly to 6-9 feet of trunk circumference. Spray from top down to ground level from either first branch or from as high as possible without exposing applicator to drift.

Application Program continued on next column

Disease	Application Method	Rate	Application Program
	Basal Bark Spray (continued)		Can be used as a preventive or curative application. Various types of application equipment can be used such as hydraulic sprayers, hand held pump-type sprayers, backpack sprayers, hose-end applicators with backflow prevention devices, and other similar application devices.
Fire Blight	Foliar spray	1 1/4 quarts per 100 gallons of water	First application pre-bloom. Application intervals: 7 days until end of bloom period. Apply spray to thoroughly wet all foliage.

***Use in California is limited to Oaks (Coastal, Live, Shreve, Black, Canyon) and Tan Oak**

ORNAMENTAL APPLICATIONS

Use ALUDE™ for effective control of Bacterial blight, Downy mildew, *Phytophthora* spp and *Pythium* spp diseases of Ornamentals in landscapes, nurseries, golf courses, parks and greenhouses. Apply ALUDE™ to plants such as, but not limited to, Aglaonema, Anthurium, Aphelandra, Arborvitae, Azaleas, Bougainvillea, Boxwood, Cattelya skinneri, Ceanothus, Cotoneaster, Cissus, Dieffenbachia, English ivy, Eucalyptus, Ficus, Hibiscus, Japanese Andromeda, Japanese Holly, Leather leaf Fern, Peperomia, Photinia, Pittosporum, Philodendron, Pieris, Pothos, Rhododendron, Roses (container, field, landscape and mini varieties), Schefflera, Sedum, Sempervivum, Syngonium, Spathiphyllum, Taxus media, and Zygocactus.

Make applications before disease development and in conjunction with good cultural management practices. Use higher rate of application when disease pressure is severe. Do not exceed recommended application rates or apply more frequently than stated on label or plant injury may occur. Do not apply to plants that are heat or moisture stressed. Do not apply to plants that are in a state of dormancy. Do not exceed recommended spray intervals or label rates in order to avoid plant injury.

Disease	Application Method	Rate	Application Program
Bacterial blight (<i>Xanthomonas campestris</i>) pathovars: <i>dieffenbachiae</i> , <i>fici hederiae</i> and <i>syngonli</i>	Foliar spray	2 to 4 pints per 100 gallons of water Or 2 - 4 tsp. per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 7 to 14 days. Repeat as required.
Downy Mildew	Foliar spray	1 1/4 - 2 1/2 quarts per 100 gallons of water Or 2 1/2 - 5 tsp. per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.
<i>Phytophthora</i> spp. and <i>Pythium</i> spp.	Foliar spray	1 - 2 quarts per 100 gallons of water Or 2 - 4 tsp. per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.

Disease	Application	Rate Method	Application Program
<i>Phytophthora</i> spp. and <i>Pythium</i> spp.	Soil drench	6 1/4 - 12 3/4 fl oz per 100 gallons of water	Apply each 25 gallons of solution to an area of 100 sq ft. Follow application with irrigation. Repeat as required. Limit of one application per month.
	Soil incorporation	1-2 pints per cubic yard of soil	Just prior to potting, mix 1 to 2 pts of ALUDE™ into each cubic yard of growing media. If disease pressure is high, apply foliar spray or soil drench
	Bare rooted dipping of Transplants	2 pints per 100 gallons of water Or 2 tsp. per gallon of water	Immediately before transplanting, dip transplants for two minutes, keep roots submerged, ensure root mass is thoroughly wet.

BEDDING PLANTS

ALUDE™ may be used for effective control of Downy mildew, *Phytophthora* spp and *Pythium* spp diseases of BEDDING PLANTS grown in landscapes, nurseries, golf courses, parks and greenhouses. Apply ALUDE™ to plants such as, but not limited to, Ageratum, Algerian Ivy, Anthurium, Artemesia, Aster, Begonia, Baby's Breath, Caladium, Carnation, Chrysanthemum, Columbine, Coleus, Daisy, Delphinium, Easter Lily, Foxglove, Gaillardia, Geranium, Gloxinia, Impatiens, Marigold, Petunia, Pansy, Phlox, Pinks, Poinsettia, Primrose, Prostrate Rosemary, Salvia, Snapdragon, Vinca, Verbena, and Zinnia. Make applications before disease development and in conjunction with good cultural management practices. Use higher rate of application when disease pressure is severe. Do not exceed indicated application rates or apply more frequently than stated on label in order to avoid plant injury. Do not apply to plants that are heat or moisture stressed.

Disease	Application Method	Rate	Application Program
Downy Mildew	Foliar spray	1 1/4 - 2 1/2 quarts per 100 gallons of water Or 1/2 - 1 1/8 fl oz per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.
<i>Phytophthora</i> spp. and <i>Pythium</i> spp.	Foliar spray	1 to 2 quarts per 100 gallons of water Or 2 - 4 tsp. per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required. Note: do not apply more than 500 gallons of spray solution per acre.
	Soil drench	6 1/4 - 12 3/4 fl oz per 100 gallons of water	Apply each 25 gallons of solution to an area of 100 square feet. Follow application with irrigation. Repeat as required. Limit of one application per month

CONIFERS IN COMMERCIAL NURSERIES, PLANTATIONS AND FORESTS* (INCLUDING CHRISTMAS TREES)

Apply ALUDE™ in conjunction with good cultural management practices for effective control of root rot (*Phytophthora* spp.) in CONIFERS including, but not limited to, Pines, Spruce and Douglas Fir. Use higher rate of application when disease pressure is severe.

Do not exceed indicated application rates or apply more frequently than stated on label in order to avoid plant injury. Do not apply to CONIFERS that are moisture or heat stressed.

Disease	Application Method	Rate	Application Program
<i>Phytophthora</i>	Foliar spray	1 to 2 quarts per 100 gallons of water or 2 - 4 tsp. per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.
	Soil drench	1 to 2 quarts per 100 gallons of water or 2 - 4 tsp. per gallon of water	Apply one gallon of solution per sq yd. Follow application with irrigation. Application intervals: 14 to 21 days. Repeat as required.
<i>Phytophthora</i>	Bare root dipping at transplanting	1 qt per 100 gallons of water Or 2 tsp. per gallon of water	Immediately before transplanting, dip transplants for two minutes; keep roots submerged and ensure root mass is thoroughly wet.

*Not for use in California.

Do not graze livestock in treated areas of conifer nurseries or plantations. Do not feed forage from treated areas of plantations and or nurseries.

TURF

Use ALUDE™ for the effective control of Pythium and damping-off diseases of turf grasses on golf courses, parks, commercial landscapes, commercial turf production, and sod farms. When conditions favor disease, begin preventive applications and repeat at indicated intervals. Use higher rate of application when disease pressure is severe.

Disease	Application Method	Rate	Application Program
<i>Pythium</i>	Foliar spray	5 to 10 fl oz per 1000 sq ft	Apply indicated quantity of product in 1 to 2 gallons of water per 1000 sq ft. Ensure foliage is thoroughly wet. Application intervals: 14-21 days. Repeat as required. Do not irrigate or mow treated areas until spray has completely dried.

TURF TANK MIXTURES

For the effective control of summer stress complex caused by a complex of Rhizoctonia and Pythium diseases, tank mix ALUDE™ with a mancozeb-containing fungicide and apply to turfgrasses on golf courses, parks, commercial landscapes, commercial turf production, and sod farms.

Product	Disease	Rate	Application Program
ALUDE™ + mancozeb-containing fungicide	Summer Stress Complex (<i>Rhizoctonia</i> and <i>Pythium</i> spp.)	5 to 10 fl oz ALUDE™ + 4 to 8 oz	Apply indicated quantity of product in 1 to 5 gallons of water per 1000 sq ft as a foliar spray. Start as a preventive spray at two-week intervals and repeat as required. Do not irrigate or mow treated areas until spray has completely dried.

****ALUDE is a Trademark of Cleary Chemical Corp.**

Do not graze animals on treated areas of turf. Do not feed treated turf clippings to poultry or livestock.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Keep this product in containers stored upright and secured with the original closure. Do not store this product near any heat source. Do not store near strong oxidants. If transfer to another container becomes necessary, ensure that the container is clearly labeled, the container is a type suitable for the product, and is clean and free of other materials.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of on-site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Do not reuse empty container. Triple rinse (or equivalent) and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, keep out of smoke.

NOTICE TO BUYER

To the extent permitted by law, all conditions and warranties and statutory or other rights of action which buyer or any other user may have against Cleary Chemical Corp. are hereby excluded. Cleary Chemical Corp. hereby gives notice to buyer and other users that it will not accept responsibility for any indirect or consequential loss arising from reliance on product information provided by Cleary Chemical Corp. or on its behalf unless it is established that such information or advice was provided negligently and that the product has been used strictly as directed. Cleary Chemical Corp.'s liability shall in all circumstances be limited to replacement of product or a refund of the purchase price thereof.



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