

ALLECTUS 0.225 INSECTICIDE PLUS FERTILIZER

For fertilization and general insect control in turfgrass areas including athletic fields and parks and residential, commercial, industrial, institutional, and recreational lawns.

Not for use on golf courses or sod farms.

For control of grubs, treats up to 13,613 sq. ft.
For control of surface feeders, treats up to 27,225 sq. ft.

ACTIVE INGREDIENT:

| | |
|---|----------------|
| Imidacloprid, 1-[(6-Chloro-3-pyridinyl) methyl]-N-nitro-2-imidazolidinimine | 0.125% |
| Bifenthrin | 0.100% |
| OTHER INGREDIENTS: | 99.775% |
| | 100.00% |

U.S. Patent No. 5,783,203

* Cis isomers 97% minimum, trans isomers 3% maximum.

**STOP - Read the label before use
KEEP OUT OF REACH OF CHILDREN
CAUTION**

For **MEDICAL** and **TRANSPORTATION** Emergencies **ONLY**
Call 24 Hours A Day 1-800-334-7577

For **PRODUCT USE** Information Call 1-800-321-5325

| FIRST AID | |
|--|---|
| If on skin: | <ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. |
| If in eyes: | <ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. |
| <p>Have the product container or label with you when calling a poison control center or doctor or going for treatment. In case of emergency call toll free the Bayer Environmental Science Emergency Response Telephone No. 1-800-334-7577.</p> <p>Note to Physician: No specific antidote is available. Treat the patient symptomatically. This product contains a pyrethroid. If large amounts have been ingested, milk, cream and other digestible fats and oils may increase absorption and so should be avoided.</p> | |

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish and aquatic invertebrates. Do not apply directly to water, or 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 washwater or rinsate. Run-off may be hazardous to aquatic organisms in water adjacent to treated areas.

This product contains a chemical with properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

DIRECTIONS FOR USE

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

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.

Do not formulate this product into other end-use products.

APPLICATION TO TURFGRASS

The use of this product will provide plant nutrients as well as providing control of selected insect pests. LESCO ALLECTUS 0.225 Insecticide Plus

Fertilizer can be used for the control of soil inhabiting pests of turfgrass, for example, northern and southern masked chafers, *Cyclocephala borealis*, *C. immaculata*, and/or *C. lurida*; Asiatic garden beetle, *Maladera castanea*; black vine weevil, *Ottiorhynchus sulcatus*; European chafer, *Rhizotrogus majalis*; green June beetle, *Cotinis nitida*; May or June beetles, *Phyllophaga* spp.; Japanese beetle, *Popillia japonica*; oriental beetle, *Anomala orientalis*; *Euetholia humilis rugiceps*; billbugs, *Sphenophorus* spp.; annual bluegrass weevil, *Listronotus maculicollis*; black turfgrass ataenius, *Ataenius spretulius*; *Aphodius* spp.; Crane flies, *Tipula* spp.; frit fly, *Oscinella frit*; chinch bugs, *Blissus* spp.; fire ants, *Solenopsis* spp.; cutworms, *Agrotis ipsilon*, *Pendromora saucia*, *Nephalodes menians*; armyworms, *Spodoptera* spp., *Pseudaletia* spp.; sod webworm, *Crambus* spp.; and mole crickets, *Scapteriscus* spp. LESCO ALLECTUS 0.225 Insecticide Plus Fertilizer can be used as directed on turfgrass, for example, in home lawns, business and office complexes, shopping complexes, multi-family residential complexes, airports, cemeteries, parks, playgrounds, and athletic fields.

The active ingredients LESCO ALLECTUS 0.225 Insecticide Plus Fertilizer have sufficient residual activity so that applications for control of subsurface feeders can be made preceding the egg laying activity. The need for an application for control of subsurface feeders can be based on historical monitoring of the site, previous records or experiences, current season adult trapping or other methods. Optimum control of subsurface feeders will be achieved when applications are made prior to egg hatch of the target pest, followed by sufficient irrigation or rainfall to move the active ingredient through the thatch.

The active ingredients in LESCO ALLECTUS 0.225 Insecticide Plus Fertilizer have sufficient knockdown and residual activity to provide remedial and residual control of surface feeding pests. Applications for control of surface feeding pests can be made when infestations are anticipated based on historical monitoring of the site, previous records or experience, current season adult trapping or presence of insects at economic thresholds as determined by scouting and/or recommendations of local State extension personnel or other qualified specialists.

Do not apply more than 200 lbs. of LESCO ALLECTUS 0.225 Insecticide Plus Fertilizer (0.25 lbs. of imidacloprid, 0.2 lbs. bifenthrin) per acre per application on residential use sites (i.e., around private homes, apartment buildings, condominiums, non-agricultural outbuildings, non-commercial greenhouses, preschools or day care facilities). May be applied at up to 400 lbs. of LESCO ALLECTUS 0.225 Insecticide Plus Fertilizer (0.5 lbs. of imidacloprid, 0.4 lbs. bifenthrin) per application on non-residential use sites (i.e., around institutional, public, commercial or industrial buildings; parks; recreational areas or athletic fields).

Do not apply when turfgrass areas are waterlogged or the soil is saturated with water. Adequate distribution of the active ingredient cannot be achieved when these conditions exist. The treated turf must be in such a condition that the rainfall or irrigation will penetrate vertically in the soil profile. Total amount applied cannot exceed 400 lbs. (0.5 lbs. of imidacloprid, 0.4 lbs. of bifenthrin) per acre per year.

NOTE: Not for use in commercial greenhouses or on grass grown for seed or on golf courses and sod farms. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior plantscapes, ornamental gardens or parks, or on lawns and grounds.

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GUARANTEED ANALYSIS

| | |
|--|-------|
| SOLUBLE POTASH (K ₂ O)..... | 7.00% |
| DERIVED FROM: Muriate of Potash | |
| CHLORINE (Cl) Max..... | 5.25% |

APPLICATION EQUIPMENT

Apply LESCO ALLECTUS 0.225 Insecticide Plus Fertilizer uniformly over the area being treated with normally used granular application equipment. Both drop-type and rotary-type spreaders may be used to apply LESCO ALLECTUS 0.225 Insecticide Plus Fertilizer. Avoid the use of spreaders that apply the material in narrow, concentrated bands. Calibrate application equipment prior to use according to the manufacturer's directions. Check frequently to be sure equipment is working properly and distributing granules uniformly and accurately.

EPA Reg. No. 432-1417-10404
EPA Est. No. 82757-OH-001(M), 82757-FL-001(S),
82757-MA-002 9H)

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Distributed by: **LESCO, Inc.**
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Cleveland, OH 44114-4114

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EMERGENCY PHONE: LESCO: (800) 321-5325
CHEMTREC: (800) 424-9300

DATE ISSUED: 1/16/07
SUPERSEDES: 8/26/05

I. PRODUCT IDENTIFICATION

PRODUCT NAME: LESCO Allectus™ 0.18 G Plus Fertilizer; LESCO Allectus™ 0.18 GC Plus Fertilizer; LESCO Allectus™ 0.225 Insecticide Plus Fertilizer; LESCO Allectus™ 0.225 GC Insecticide Plus Fertilizer

Chemical Family: NA

Chemical Name/Synonyms: NA

II. COMPOSITION/INFORMATION ON INGREDIENTS

| CHEMICAL NAME | %(by/wt.) | CAS # | PEL/TLV |
|---|--------------|-------------|---|
| Formulated with one or more of the following ingredients. Check specific product label. | | | |
| Bifenthrin Technical | 0.08 – 0.100 | 82657-04-3 | NE |
| Imidacloprid Technical | 0.1 – 0.125 | 138261-41-3 | NE |
| Calcium Carbonate | 15 – 90 | 471-34-1 | 15 mg/m ³ (dust) 5 mg/m ³ (resp) |
| Urea | 15 – 40 | 57-13-6 | 10 mg/m ³ (dust) 5 mg/m ³ (resp) |
| Potassium Chloride | 5 – 20 | 7447-40-7 | 10 mg/m ³ |
| Potassium Sulfate | 5 – 20 | 7778-80-5 | 10 mg/m ³ |
| Monoammonium Phosphate | 5 – 20 | 7722-76-1 | 15 mg/m ³ (dust) 15 mg/m ³ (TLV) |
| Diammonium Phosphate | 0 – 8 | 7783-28-0 | 10 mg/m ³ |
| Iron Oxide, Saccharated | 0 – 4 | 8047-67-4 | NE |
| Sulfur | 0 – 3 | 7704-34-9 | 5 ppm (SO ²) |
| Quartz (SiO ₂) | 0 – 1 | 14808-60-7 | 10 mg/m ³ + (%SiO ₂ +2) |

III. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Primary Route(s) of Entry: Eyes, Skin, Inhalation, Ingestion

POTENTIAL HEALTH EFFECTS: Caution. Harmful if swallowed, inhaled or absorbed through skin.

EYE: Causes moderate eye irritation.

SKIN: Harmful if absorbed through skin. Avoid contact with skin.

INHALATION: Harmful if inhaled. Do not breathe vapors/dust.

INGESTION: Harmful if swallowed.

MEDICAL CONDITIONS AGGRAVATED: None known

POTENTIAL ENVIRONMENTAL HAZARDS:

This product is extremely toxic to fish and aquatic invertebrates. Do not apply directly to water, or 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 washwater or rinsate. Run-off may be hazardous to aquatic organisms in water adjacent to treated areas.

This product contains a chemical with properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

IV. FIRST AID MEASURES

EYES: Hold eye open and rinse slowly and gently with water for 15 to 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.

SKIN: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

INHALATION: 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.

INGESTION: 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 a poison control center or doctor. Do not give anything by mouth to an unconscious person.

NOTES TO MEDICAL DOCTOR: No specific antidote is available. Treat the patient symptomatically. This product contains a pyrethroid. If large amounts have been ingested, milk, cream and other digestible fats and oils may increase absorption and so should be avoided.

V. FIRE FIGHTING MEASURES

Flash Point (Method Used): NA

Lower Explosion Limits: NA

NFPA/HMIS Rating: Health: 1

EXTINGUISHING MEDIA: Foam
 Dry Chemical

Auto Ignition Temperature: NA

Upper Explosion Limits: NA

Fire: 1 **Reactivity:** 1

Alcohol Foam CO₂
 Water Other

EXPLOSION HAZARDS: Irritating or toxic substances may be emitted upon thermal decomposition.

FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus and protective suit. Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Contain contaminated water/fire fighting water. Dike area to prevent run-off and contamination of water sources. Equipment or materials involved in pesticide fires may become contaminated. Prevent use of contaminated buildings, area, and equipment until decontaminated.

HAZARDOUS COMBUSTION PRODUCTS: Heating above 270F urea decomposes to biuret, ammonia, and nitrogen oxides. When subjected to extremely high temperatures, Potash may release small quantities of chlorine gas. Bifenthrin decomposition products include carbon monoxide, carbon dioxide, hydrogen chloride and hydrogen fluoride.

VI. ACCIDENTAL RELEASE MEASURES

RELEASE NOTES: If material is spilled, carefully contain any spilled material to prevent non-target contamination. Do not walk through spilled material. Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces. Avoid dust formation. Avoid breathing dust. Avoid contact with skin. Use recommended protective equipment while carefully sweeping up spilled material. Place in covered container for reuse or disposal. Scrub contaminated area with soap and water. Rinse with water. Use dry absorbent material such as clay granules to absorb and collect wash solution for proper disposal. Contaminated soil may have to be removed and disposed. Do not allow material to enter streams, sewers, or other waterways.

VII. HANDLING AND STORAGE

GENERAL PROCEDURES: Do not contaminate water, food, or feed by storage or disposal. Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area. Handle and open container in a manner as to prevent spillage.

OTHER PRECAUTIONS: Keep out of reach of children and animals.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.

PERSONAL PROTECTION EQUIPMENT:

EYES AND FACE: Safety glasses or chemical goggles to prevent contact

RESPIRATORY: NIOSH approved equipment based on actual or potential airborne concentrations

GLOVES: Chemical resistant gloves made of materials such as nitrile

PROTECTIVE CLOTHING: Long-sleeved shirt, long pants, shoes plus socks

WORK HYGENIC PRACTICES: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. 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. Remove PPE immediately after handling this product. Before removing gloves, clean them with soap and water. As soon as practical, wash thoroughly and change into clean clothing. Leather items such as shoes, belts and watchbands that become contaminated should be removed and destroyed.

COMMENTS: Have eye wash facilities available where eye contact could occur.

IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: NA

MELTING POINT: ND

VAPOR DENSITY (air = 1): NA

ODOR: Slight solvent and ammonia

APPEARANCE: Multi-colored granules

pH: 5.5 – 8.0 @ 25C (as aqueous solution)

SPECIFIC GRAVITY: ND

EVAPORATION RATE: NA

VAPOR PRESSURE: NA

SOLUBILITY IN WATER: ND

PERCENT VOLATILE: ND

BULK DENSITY (lbs./cu ft): 54 – 85

X. STABILITY AND REACTIVITY

CONDITIONS TO AVOID:

Imidacloprid: >200C

Urea may slowly hydrolyze to ammonium carbamate after a long period of time which decomposes to ammonia and carbon dioxide

STABILITY: Stable under normal conditions

POLYMERIZATION: Will not occur

INCOMPATIBLE MATERIALS:

Urea: Avoid contact with strong oxidizers, acids or bases. Avoid contact with Nitrates. Reacts with sodium or Calcium Hypochlorite to form explosive Nitrogen Trichloride.

Potash: Contact with strong acids may produce hydrogen chlorine gas; contact with hot nitric acid may produce toxic nityrosyl chloride.

HAZARDOUS DECOMPOSITION PRODUCTS:

Imidacloprid: Hydrogen chloride, hydrogen cyanide (hydrocyanic acid), carbon monoxide, nitrogen oxides.

Urea: Decomposes to ammonia, biuret, nitrogen oxides, carbon oxides.

Diammonium phosphate: ammonia is released upon reaction with strong bases or from thermal decomposition.

XI. TOXICOLOGICAL INFORMATION

*Acute toxicity studies have not been performed on this product as formulated. The acute toxicity data provided have been bridged from a similar granular formulation containing a higher percentage of the active ingredients, bifenthrin and imidacloprid. The non-acute information pertains to the technical-grade active ingredients.

EYE EFFECTS: (Rabbit): Mild irritant

SKIN EFFECTS: (Rabbit): Slight irritation

DERMAL LC₅₀: (Male/Female Rat): >5,000 mg/kg

ORAL LD₅₀: (Female Rat): >5,000 mg/kg

INHALATION LC₅₀: The acute inhalation hazard of this product is not expected to be a toxicological concern based on the large particle size of the granular product.

SENSITIZATION: (Guinea pig): Non-sensitizing

ACUTE EFFECTS FROM OVEREXPOSURE:

Imidacloprid Technical: In a 3-week dermal toxicity study, rabbits treated with imidacloprid showed no local or systemic effects at levels up to and including 1,000 mg/kg, the limit dose. In a 4-week inhalation study, rats exposed to high concentrations of imidacloprid exhibited decreased body weight gains and changes in clinical chemistries and organ weights.

Bifenthrin Technical: In a 21-day dermal toxicity study in rabbits, bifenthrin caused a loss of muscle coordination. In subchronic toxicity studies, tremors were observed in rats and dogs following dietary exposure to bifenthrin.

CHRONIC EFFECTS FROM OVEREXPOSURE:

Imidacloprid Technical: In chronic dietary studies in rats and dogs exposed to imidacloprid, the target organs were the thyroids and/or liver.

Bifenthrin Technical: The principal effect observed in rats, mice and dogs from long-term exposure to bifenthrin was clinical signs of toxicity (e.g. tremors).

CARCINOGENICITY:

Imidacloprid Technical: In oncogenicity studies in rats and mice, imidacloprid was not considered carcinogenic in either species.

Bifenthrin Technical: Bifenthrin was not carcinogenic in a chronic feeding study in rats. In an oncogenicity study in mice, there was an increased incidence of tumors (urinary bladder, liver, lung). EPA classified bifenthrin as Group C (possible human carcinogen) chemical based on urinary bladder tumors in mice. The Agency used a non-linear methodology approach for determining the Margin of Exposure (MOE) for the estimation of cancer risk. Therefore, EPA has a reasonable certainty that no harm will result from exposure to residues of bifenthrin.

IARC: Not Listed

OSHA: Not Listed

NTP: Not Listed

OTHER: Not Listed

REPRODUCTIVE & DEVELOPMENTAL TOXICITY:

Imidacloprid Technical:

Reproduction: In a two-generation reproduction study in rats, imidacloprid was not a primary reproductive toxicant. Offspring exhibited reduced body weights at the high dose and in conjunction with maternal toxicity.

Developmental Toxicity: in developmental toxicity studies in rats and rabbits, there was no evidence of an embryonic or teratogenic potential for imidacloprid. In both species, developmental effects were observed only at high doses and in conjunction with maternal toxicity.

Bifenthrin Technical:

Reproduction: Bifenthrin is not a reproductive toxicant based on multigeneration reproduction study in rats.

Developmental Toxicity: Bifenthrin is not a developmental toxicant based on developmental toxicity studies in rats and rabbits.

NEUROTOXICITY:

Imidacloprid Technical: In acute and subchronic neurotoxicity screening studies in rats, imidacloprid produced slight neurobehavioral effects in each study at the highest dose tested. There were no correlating morphological changes observed in the neural tissues. In a one-generation developmental neurotoxicity screening study in rats, offspring exposed to imidacloprid showed decreased motor activities. These effects occurred at the highest dose tested and in conjunction with maternal toxicity. There were no correlating morphological changes observed in the neural tissue.

Bifenthrin Technical: Bifenthrin did not cause neurotoxicity in hens. In acute and subchronic neurotoxicity screening studies in rats, transient well-defined neurobehavioral effects were seen without correlating morphological changes in the neural tissues.

MUTAGENICITY:

Imidacloprid Technical: The imidacloprid mutagenicity studies, taken collectively, demonstrate that the active ingredient is not genotoxic or mutagenic.

Bifenthrin Technical: Bifenthrin is not considered genotoxic or mutagenic based on in vitro and in vivo mutagenicity studies.

XII. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: This product is extremely toxic to fish and other aquatic organisms. 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 surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Run-off from treated areas may be hazardous to aquatic organisms in neighboring areas.

ECOLOGICAL INFORMATION: This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

XIII. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:

Product: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container: do not re-use empty containers. Completely empty container into application equipment, then dispose of empty container in a sanitary landfill, by incineration or by other procedures approved by state and local authorities. If burned, stay out of smoke.

XIV. TRANSPORTATION INFORMATION:

DOT Transportation:

Not Regulated

Proper Shipping Name:

NA

Hazard Class:

NA

U.S. Surface Freight Class:

18 - Insecticides, Fungicides, Insect or Animal Repellent NOI

Marine Pollutant #1:

NA

HM 181 Shipping Name:

NA

ID NO.:

NA

Reportable Quantity (RQ):

NA

XV. REGULATORY INFORMATION – UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):**SEC 311/312:****Y Immediate (Acute Health)****N Delayed (Chronic Health)****N Fire****N Sudden Release of Pressure****N Reactivity****SEC 302 (Extremely Hazardous Substance): NA****SEC 304 (Emergency Release Notification): NA****SEC 313 (Toxic Chemicals): Bifenthrin Technical (CAS #82657-04-3; 1.0%)****CERCLA RQ: NA****CAA RQ: NA****EPA Registration No.:** 432-1418-10404 (0.18 G); 432-1426-10404 (0.18 GC); 432-1417-10404 (0.225); 432-1427-10404 (0.225 GC)

NOTE: NA=Not Applicable; ND=Not Determined; NE=Not Established

Preparation and distribution of this Material Safety Data Sheet is done for LESCO, Inc., pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200).

The information contained herein is based on available data. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof; and you should make your investigation to determine safety for the use you contemplate. LESCO makes no warranty of merchantability or of fitness for a particular use, nor is there any other express or implied warranty except as may be specifically provided otherwise on product.

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