

LebanonSeaboard Corporation

Material Safety Data Sheet

Lebanon Allectus 0.225G Insect Control Plus Fertilizer

Revision Date: 1/10/2013

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name Lebanon Allectus 0.225G Insect Control Plus Fertilizer
EPA Registration No. 432-1417-961
Product Use For fertilization and general insect control in turfgrass areas.

Lebanon Seaboard Corporation
1600 E. Cumberland Street
Lebanon, PA 17042
USA

For MEDICAL, TRANSPORTATION or other EMERGENCY call 1-800-334-7577 (24 hours/day)
For Product Information call 1-800-331-2867

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Imidacloprid 138261-41-3		0.125
Bifenthrin 82657-04-3		0.100

SECTION 3. HAZARDS IDENTIFICATION

NOTE: Please refer to Section 11 for detailed toxicological information.

Emergency Overview Caution! Avoid contact with skin, eyes and clothing. Harmful if absorbed through skin. Moderate eye irritation

Physical State granular

Appearance various, depending on coloration

Routes of Exposure Skin Absorption, Eye contact, Inhalation, Ingestion

Immediate Effects Causes eye irritation. Avoid contact with eyes.

Skin Harmful if absorbed through skin. May cause slight irritation. Avoid contact with skin and clothing.

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Ingestion Do not take internally.

Inhalation Avoid breathing dust.

SECTION 4. FIRST AID MEASURES

General	Have the product container or label with you when calling a poison control center or doctor or going for treatment.
Eye	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.
Skin	Take off all contaminated clothing immediately. Rinse immediately with plenty of water for at least 15 minutes. Call a poison control center or doctor for 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 directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person.
Inhalation	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
Notes to Physician Hazards	This product/preparation contains a pyrethroid.
Treatment	There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. Do not administer milk, cream or other substances containing vegetable or animal fats, which enhance the absorption of lipophilic substances.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point	not applicable
Fire and Explosion Hazards	Under fire conditions, toxic, corrosive fumes are emitted.
Suitable Extinguishing Media	water spray, foam, carbon dioxide (CO2), dry chemical

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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.
Methods for Cleaning Up	Avoid dust formation. Sweep up and shovel into suitable containers for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.
Additional Advice	Use personal protective equipment. Avoid breathing dust. Avoid contact with skin. Do not allow material to enter streams, sewers, or other waterways.

SECTION 7. HANDLING AND STORAGE

Handling Procedures	Handle and open container in a manner as to prevent spillage. Do not contaminate water, food, or feed by storage or disposal.
Storing Procedures	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.
Work/Hygienic Procedures	Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General Protection

Educate and train employees in safe use of the product. Follow all label instructions.

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.

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Engineering Controls	Ensure adequate ventilation.
Eye/Face Protection	Safety glasses with side-shields
Hand Protection	chemical resistant gloves
Body Protection	Wear long-sleeved shirt and long pants and shoes plus socks.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	various, depending on coloration
Physical State	granular
pH	6.5 - 7.5 at 25 °C
Bulk Density	52-57 lbs/cubic foot

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability	Stable
Hazardous Decomposition Products	In case of fire hazardous decomposition products may be produced such as: ammonia Sulphur oxides Oxides of potassium Carbon oxides nitrogen oxides (NOx) oxides of phosphorus hydrogen cyanide (hydrocyanic acid)

SECTION 11. TOXICOLOGICAL INFORMATION

The potential toxicity of this product has been bridged from two similar single active ingredient end-use products. For MSDS purposes, the most conservative acute toxicity data are presented here. The non-acute information pertains to the technical-grade active ingredients, imidacloprid and bifenthrin.

Acute Oral Toxicity	rat: LD50: > 5,000 mg/kg
Acute Dermal Toxicity	rat: LD50: > 2,000 mg/kg

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Acute Inhalation Toxicity rat: LC50: > 5.0 mg/l
Exposure time: 4 h
Determined in the form of dust.
(actual)

rat: LC50: > 20 mg/l
Exposure time: 1 h
Determined in the form of dust.
Extrapolated from the 4 hr LC50.
(actual)

Skin Irritation rabbit: slight irritation

Eye Irritation rabbit: Minimally irritating.

Sensitization guinea pig: Non-sensitizing

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

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

Assessment Carcinogenicity

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

BIFENTHRIN: 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.

ACGIH
None.
NT
P None.
IA
R None.
OSHA
None.

Reproductive & Developmental Toxicity

REPRODUCTION

IMIDACLOPRID: 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.

BIFENTHRIN: Bifenthrin is not a reproductive toxicant based on a

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multigeneration reproduction study in rats.
DEVELOPMENTAL TOXICITY

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

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

Neurotoxicity

IMIDACLOPRID: 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 tissues.

BIFENTHRIN: Bifenthrin did not cause delayed 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: The imidacloprid mutagenicity studies, taken collectively, demonstrate that the active ingredient is not genotoxic or mutagenic.

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

SECTION 12. ECOLOGICAL INFORMATION

Environmental Precautions

This product is extremely toxic to fish and aquatic invertebrates. 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. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Apply this product only as specified on the label.

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SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal Completely empty container into application equipment, then dispose of empty container in a sanitary landfill, by incineration or by other procedures approved by state/provincial and local authorities. If burned, stay out of smoke.

SECTION 14. TRANSPORT INFORMATION

TRANSPORTATION CLASSIFICATION:

Not regulated for all modes of Transportation

FREIGHT CLASSIFICATION:

Insecticides or Fungicides, N.O.I.; other than poison

SECTION 15. REGULATORY INFORMATION

EPA Registration No. 432-1417-961

US Federal Regulations

TSCA list

None.

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

None.

SARA Title III - Section 302 - Notification and Information

None.

SARA Title III - Section 313 - Toxic Chemical Release Reporting

Bifenthrin 82657-04-3 1.0%

US States Regulatory Reporting

CA Prop65

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

US State Right-To-Know Ingredients

Bifenthrin 82657-04-3 NJ

Canadian Regulations

Canadian Domestic Substance List

None.

Environmental

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CERCLA

None.

Clean Water Section 307 Priority Pollutants

None.

Safe Drinking Water Act Maximum Contaminant Levels

None.

SECTION 16. OTHER INFORMATION

NFPA

Health - 1 Flammability - 2 Reactivity - 1 Others - none

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason to Revise: New Material Safety Data Sheet.

Revision Date: 1/10/2013

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