



Revision Date: 01/13/2016

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANYProduct Name: **Lebanon Bifenthrin 0.1% Insect Control**

EPA No: 53883-121-961

Recommended use

This product is a granular insecticide for landscape use.

Supplier/ManufacturerLebanon Seaboard Corporation
1600 East Cumberland Street
Lebanon PA 17042

Tel: (800) 233-0628 (717-273-1685)

Supplier Email: customerservice@lebsea.comEmergency telephone number

800-233-0628

Chemtrec 1-800-424-9300

Prosar 888-208-1368

2. HAZARDS IDENTIFICATION

OSHA Signal Word: Warning

EPA Signal Word: Caution

Hazard Statements and Hazard Category:

H303: May be harmful if swallowed. (Category 5)

H320: Causes eye irritation. (Category 2B)

H333: May be harmful if inhaled repeatedly over prolonged periods. (Category 5)

H351: Suspected of causing cancer. (Category 2)

**Precautionary Statements for handling:**

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P261: Avoid breathing dust.

P264: Wash hands and exposed skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P281: Use appropriate personal protective equipment as required to avoid breathing dust.

P308: If exposed or concerned, seek medical advice.

P305, P337, P351: If in eyes, rinse cautiously with water for several minutes. If eye irritation persists: Seek medical advice.

P312: Call a poison center or doctor/physician if you feel unwell.

P405: Store locked up.

Keep out of reach of children.

Precautionary Statements for disposal - Dispose in accordance with all federal, state and local regulations.

Hazards not otherwise classified (HNOC): None

Unknown acute toxicity

<1% of the mixture consists of ingredients of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight %
Bifenthrin	82657-04-3	0.1%
Limestone [‡]	72608-12-9	99.18%
Quartz silica [‡] (residual sand mineral within limestone)	14808-60-7	2-5% (estimated)

Nonhazardous inert ingredients	Various	Balance
--------------------------------	---------	---------

‡Limestone may contain significant amounts of residual sand (crystalline silica)

4. FIRST AID MEASURES

Eye Contact	Rinse eyes with water. If discomfort or irritation persists contact a physician.
Skin Contact	Wash with soap and water. If injury occurs, or if discomfort or irritation persists contact a physician.
Inhalation	If inhaled and discomfort occurs, move to fresh air, and keep person at rest in a position comfortable for breathing. If difficulty in breathing occurs and/or persists, administer oxygen and get medical attention. If medical advice is needed, have product container or label on hand.
Ingestion	Rinse mouth. Drink Plenty of water. If discomfort occurs, seek medical attention. Do not induce vomiting of an unconscious person.

Self-protection of the first aider: Use any appropriate personal protective equipment as required to avoid breathing dust, and to avoid eye and skin contact.

Most important symptoms and effects, both acute and delayed:

Symptoms: Dust irritation with nasal discomfort, or skin irritation possible.

Indication of any immediate medical attention and special treatment needed: Treat Symptoms.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing media suitable to local circumstances and the surrounding environment. Options in this case include water, CO₂, ABC Dry Chemical extinguisher, or foam. Avoid stirring up dust with water stream.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire, do not breathe fumes.

Explosion data

Sensitivity to mechanical impact: None

Sensitivity to static discharge: None

Note: Excessive amounts of any burnable dusts can produce explosive mixtures if allowed to disperse in the air in confined areas where ignition sources occur. Prevent excessive dust dispersal in areas of use, storage, or production.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and standard protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Personal Precautions	Use reasonable personal protective equipment as required to prevent contact with eyes or skin and to avoid breathing dust. Remove ignition sources prior to clean-up.
Environmental precautions	Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.
Methods for containment	Prevent further leakage or spillage, if safe to do so.

Methods for clean-up Use reasonable personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly. Soak up excess with inert absorbent material.

7. HANDLING AND STORAGE

Safe Handling Do not eat, drink or smoke when using this product. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Wash hands thoroughly after handling.

Storage Conditions Keep containers tightly closed in a cool, well- ventilated place. Store locked up. Keep away from food, drink and animal feed. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal. Keep out of the reach of children.

Incompatible materials Avoid strong acids or alkali, or other reactive substances.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH REL
Quartz (Silica)	0.025 mg/m ³ (respirable)	250 mppcf %SiO ₂ + 5	0.05 mg/m ³ (REL)
Nuisance Dusts	10 mg/m ³ (TWA)	15 mg/m ³ (TWA total) 50 mppcf (TWA total) 5 mppcf (TWA respirable)	Not Established

Engineering controls: Use with adequate ventilation to prevent dust buildup in air.

Individual protection measures

Eye protection Safety glasses, or goggles if eye contact is likely

Skin and Body Protection Gloves and coveralls recommended.

Respiratory Protection Dust mask recommended for dusty or misty conditions. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene When using product, do not eat, drink or smoke. Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Solid

Appearance Granules

Color Mixed, various

Odor Slight

Odor Threshold No information available

pH Not applicable

Melting point/freezing point Not applicable

Boiling point / boiling range Not applicable

Flash point No information available

Evaporation rate Not applicable

Flammability (solid, gas)	No information available
Flammability Limits in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	Not applicable
Vapor density	Not applicable
Specific Gravity	Not applicable
Water solubility	Mostly Insoluble in water, although some ingredients may dissolve.
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Oxidizing properties	Not an oxidizer

10. STABILITY AND REACTIVITY

Reactivity

Not particularly reactive.

Chemical stability

Stable.

Possibility of Hazardous Reactions

May release heat and fumes when mixed in solution with incompatible reactive materials.

Hazardous polymerization

Will not occur.

Conditions to avoid

High heat, sparks and open flames, as some ingredients may be burnable.

Incompatible materials

Strong acids or alkali, or other reactive substances.

Hazardous Decomposition Products

May emit toxic fumes under fire conditions, such as Nitrogen oxides (NO_x), Ammonia, Oxides of sulfur, Hydrogen chloride and Carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Routes of exposure: Ingestion, eyes (contact), skin (contact), dust inhalation

Symptoms	May irritate the digestive tract if ingested in quantity, causing nausea, vomiting and diarrhea.
Sensitization	Not a skin Sensitizer.
Germ cell mutagenicity	Not mutagenic
Carcinogenicity:	Bifenthrin is a Class C, or "possible" human carcinogen based on animal studies. Crystalline silica (sand mineral) listed as IARC Group 1 Carcinogen by inhalation.

Reproductive Effects: None

Teratogenicity: Not teratogenic in animal experiments (bifenthrin).

Mutagenicity: Not a mutagen.

Target organs: Bifenthrin is considered a neurotoxin. Overexposure may produce symptoms of neurotoxicity. (Unlikely from normal use, based on the 0.1% level in this product).

12. ECOLOGICAL INFORMATION

Insecticides may be harmful to aquatic life with short term effects, depending on the amount released. The insecticide ingredient (bifenthrin) is highly toxic to fish and aquatic invertebrates. Use with care when applying to turf areas adjacent to any bodies of water. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated turf may adversely affect aquatic organisms in adjacent bodies of water. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water when disposing of equipment washwater.

Persistence and degradability Log P_{ow} >6.0 (Bifenthrin). The aerobic half-life of bifenthrin in soil ranges from 97-250 days, depending on soil type.
 Bioaccumulation BCF = 11,750 (for bifenthrin only)
 Other adverse effects Bifenthrin has a high affinity for organic matter, and is not mobile in soil. Therefore, there is little potential for movement into ground water.

13. DISPOSAL CONSIDERATIONS

This material, as supplied is not a hazardous waste according to federal regulations (40 CFR 261).

Disposal of wastes:

This product is a hazardous waste material.
 EPA Waste Numbers are applicable for this product's components.
 Dispose of in accordance with Local, State, and Federal regulations.

Contaminated packaging

US Federal: special packaging considerations for pesticide containers. If the container is empty, do not reuse it. Place it in the trash, unless the label specifies a different procedure. Follow local regulations.

14. TRANSPORT INFORMATION

U.S. SURFACE FREIGHT CLASS: Fertilizing compound mixed with insecticide.

DOT:	Not Regulated	ADR:	Not Regulated
Proper Shipping Name:	Non Regulated	ADN:	Not Regulated
Hazard Class:	Not Applicable	RID:	Not Regulated
IATA:	Not Regulated	IATA:	Not Regulated
Proper Shipping Name:	Non Regulated	TDG:	Not Regulated
Hazard Class:	Not Applicable	ICAO:	Not Regulated
IMDG/IMO	Not Regulated	MEX:	Not Regulated
Hazard Class	Not Applicable		
Marine Pollutant	No		

15. REGULATORY INFORMATION

General Product Information: This product is not federally regulated as a hazardous material.
Clean Air Act: No data
Clean Water Act: No data

TSCA STATUS: This product is exempt from TSCA Regulation under FIFRA Section 3(2)(G)(ii) when used as a pesticide.

CERCLA REPORTABLE QUANTITY: No components listed

SARA TITLE III:

- Section 302, Extremely Hazardous Substances: None
- Section 311/312 Hazard Categories: The threshold planning quantity (TPQ) for this product, if treated as a mixture, is 10,000 lbs.
- Section 313 Toxic Chemicals: (bifenthrin 0.1% - below *de minimis* value)

State Regulations

State Right-to-Know Components: Crystalline Silica listed in: CA, FL, MA, MN, NJ, PA.

California Proposition 65: This product contains detectable quantities of chemicals known to the State of California to cause cancer.

16. OTHER INFORMATION

Disclaimer

The information provided in this material safety data sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.