



Revision Date: 01/19/2016

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY**Product Name: **Lebanon ProScape 16-0-8 with 0.069% Bifenthrin**

EPA No: 53883-160-961

Recommended use: This product is a mixed fertilizer/insecticide for landscape use.**Supplier/Manufacturer**Lebanon 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:**

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

H351: Suspected of causing cancer by prolonged/repeated inhalation (Category 2).

May irritate the digestive tract if ingested.

Keep out of reach of children.

**Precautionary Statements for handling:**

P261: Avoid breathing dust.

P264: Wash hands and exposed skin thoroughly after handling.

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

P308: If exposed or concerned, seek medical advice.

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

&lt;1% of the mixture consists of ingredients of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No.	Weight %
Dolomitic Limestone	16389-88-1	40 - 45
Attapulgite clay (Kaolin)	12174-11-7	0.7
Bifenthrin	82657-04-3	0.069
Nonhazardous Fertilizer Ingredients	Various	Balance

*\*Note: Naturally mined minerals like limestone and kaolin typically contain silica (sand) at amounts ranging from 1 to 6%. Fine silica particulates are considered as a carcinogen via repeated and prolonged inhalation over several years exposure.*

#### 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, CO<sub>2</sub>, 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. Wear eye and face protection. 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**                    Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Wash hands and exposed skin thoroughly after handling.
- Storage Conditions**            Keep containers tightly closed in a cool, well- ventilated place. Keep away from food, drink and animal feed. Store locked up. 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**

<b>Chemical Name</b>	<b>ACGIH TLV</b>	<b>OSHA PEL</b>	<b>NIOSH REL*</b>
Attapulgite (palygorskite)	None (See silica)	None (See silica)	None (See silica)
Silica, crystalline	0.025 mg/m <sup>3</sup> (respirable)	(30 mg/m <sup>3</sup> ) ÷ (%SiO <sub>2</sub> + 2)	Ca [25 mg/m <sup>3</sup> (cristobalite, tridymite); 50 mg/m <sup>3</sup> (quartz, tripoli)]
Cellulose	10 mg/m <sup>3</sup> (TWA)	See nuisance dusts	Not Established
Nuisance Dusts	10 mg/m <sup>3</sup> (TWA)	15 mg/m <sup>3</sup> (TWA total) 50 mppcf (TWA total) 5 mppcf (TWA respirable)	Not Established

\*REL refers to "Recommended Exposure Limit"

Other Information:

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

**Individual protection measures**

- Eye protection**                    Wear eye and face 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<sub>x</sub>), 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 - EPA Group C (Possible Human Carcinogen) Palygorskite (attapulgite) fibers, long: IARC 2B, Possibly carcinogenic to humans. Palygorskite (attapulgite) fibers, short, IARC 3, Unclassifiable as to carcinogenicity in humans. Potential occupational carcinogen. Naturally mined minerals, like limestone and attapulgite typically contain sand (silica) at amounts ranging from 1 to 6%. Fine silica particulates are considered to be carcinogenic via repeated and prolonged inhalation over several years exposure. (IARC, ACGIH).

Reproductive toxicity	Not a reproductive toxin
STOT - single exposure	No information available
STOT - repeated exposure	No information available
Chronic toxicity	Lungs: silicosis, cancer (prolonged, repeated exposures)
Target Organ Effects	Lungs: silicosis, cancer (prolonged, repeated exposures)
Aspiration hazard	No information available

**12. ECOLOGICAL INFORMATION**

Fertilizers may be harmful to aquatic life with short term effects, causing algal bloom and increased BOD, 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 Pow >6.0
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**

**Disposal of wastes:**

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.

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

**15. REGULATORY INFORMATION**

**General Product Information:**

<b>Clean Air Act:</b>	No data
<b>Clean Water Act:</b>	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 0.069% - below *de minimis* value)

**State Regulations**

Quartz (Crystalline silica and/or attapulgite): PA, FL, MA, NJ, CA

**California Proposition 65:** This product contains detectable quantities of chemicals (sand mineral: silica, and attapulgite) 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.