Revision Date: 01/12/2016

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name: **Lebanon Pro Fertilizer 20-0-5 with Allectus 0.225 G Insecticide**

EPA No: 432-1417-961

Recommended use: This product is a mixed fertilizer/pesticide 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.com

Emergency 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:
H316: Causes mild skin irritation. (Category 3)
H320: Causes eye irritation. (Category 2B)
H333: May be harmful if inhaled repeatedly over prolonged periods. (Category 5)
H351: Suspected of causing cancer by prolonged/repeated inhalation. (Category 2; and EPA Group C)
H371: May cause damage to lungs through prolonged or repeated inhalation.
H402: Harmful to aquatic life. (Category 3)
May irritate the digestive tract if ingested.

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.
P305, P337, P351: If in eyes, rinse cautiously with water for several minutes. If eye irritation persists: Seek medical advice.
P332, 352: If skin irritation occurs: Wash with soap and water. Seek medical attention if irritation persists.
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 %
*Dolomitic limestone	16389-88-1	30 - 35
Sulfur	7704-34-9	1 - 2
Imidacloprid (insecticide)	138261-41-3	0.125
Bifenthrin (Insecticide)	82657-04-3	0.1
Non hazardous fertilizer ingredients	Various	Balance

**Note: Naturally mined minerals like limestone 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_2, 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 — 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 out of the reach of children.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH or REL
Nuisance Dusts	10 mg/m^3 (TWA)	15 mg/m^3 (TWA total) 50 mppcf (TWA total) 5 mppcf (TWA respirable)	Not Established (IDLH)
Quartz (Silica)	0.025 mg/m^3 (respirable)	250 mppcf %SO_2 + 5	0.05 mg/m^3 (REL)

*IDLH refers to amounts that are "Immediately Dangerous to Life or Health." REL is "Recommended Exposure Limit."

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

Individual protection measures

Wear protective gloves, protective clothing, eye protection, and face protection.

Eye protection — Wear face and eye protection. Safety glasses, or goggles if eye contact is likely, with face shield.

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. Wear protective gloves, protective clothing, eye protection, and face protection.

9. PHYSICAL AND CHEMCIAL 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 (NOx), 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. Redness and tearing if eye contact occurs.
Sensitization	Not a dermal sensitizer.
Germ cell mutagenicity	Not mutagenic.
Carcinogenicity	Potential occupational carcinogen. Naturally mined minerals, like limestone 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).

Carcinogenicity Bifenthrin:	Weak treatment-related response for liver adenocarcinomas and benign bladder tumors (lesion) in male mice.
Chronic toxicity Bifenthrin:	Long-term exposure caused neurotoxicity (tremors and impaired gait) in the early exposure in animal studies, but tremors disappeared with continued exposure.
Mutagenicity Bifenthrin:	Not genotoxic in laboratory studies.
Neurological effects Bifenthrin:	Causes clinical signs of neurotoxicity (tremors, impaired gait, excessive salivation) following acute or subchronic exposure. Tremors disappeared with continued exposure.
Reproductive toxicity Bifenthrin:	No toxicity to reproduction in animal studies. Contains ingredients that are suspected reproductive hazards.

Note: Toxicity effects noted above involved concentrations significantly higher than those found in this product.

Oral Toxicity (Imidacloprid): Low: Oral LD50 - Male and Female rat: >4820 mg/kg (Imidacloprid)
Dermal Toxicity (Imidacloprid): Dermal LD50 - Male and Female rabbit: >2000 mg/kg (Imidacloprid)
Inhalation Toxicity (Imidacloprid):
4 Hr. Exposure to dust - Male and Female rat: >5.09 mg/L (analytical)
1 Hr. Exposure to dust (extrapolated from 4 Hr. LC50) - Male and Female rat: >20 mg/L (analytical)

Reproductive toxicity	Suspected of damaging fertility or unborn child by ingestion (at doses toxic to the mother).
STOT - single exposure	No information available
STOT - repeated exposure	No information available
Chronic toxicity (Imidacloprid):	Dietary NOEL (dog): 500 ppm. Dietary NOEL (rat): 100 ppm.
Target Organ Effects	No information available
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. Insecticides (like bifenthrin and imidacloprid) are harmful to fish and other aquatic life, specifically aquatic arthropods, which are important to the food chain. 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	Imidacloprid: Not rapidly biodegradable; Bifenthrin: Moderately persistent. Does not readily hydrolyze. Not readily biodegradable.
Bioaccumulation	Imidacloprid: Does not bioaccumulate; Bifenthrin: The substance has a potential for bioconcentration.
Other adverse effects	Imidacloprid: Moderately mobile in soils; Bifenthrin: Immobile. Not expected to reach groundwater.

13. DISPOSAL CONSIDERATIONS

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

Disposal of wastes:

EPA Waste Numbers are applicable for this product's components.
Dispose of in accordance with Local, State, and Federal regulations.

RCRA STATUS: If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste (40 CFR 261.20-24).

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

Freight Class package: Insecticides, NOI-NMFC 102120

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 Water Act: This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

OSHA STATUS: This product is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

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: Immediate Health Hazard; Chronic Health Hazard

SECTION 313 Toxic Chemicals: None

RCRA STATUS: Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste (40 CFR 261.20-24).

State Right-to-Know: Crystalline silica: CA, IL, MA, NH, NY, NJ, PA, RI

California Proposition 65: This product contains detectable quantities of chemicals (sand mineral; bifenthrin) 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.