

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY**Product Name: **Lebanon Pro Fertilizer 11-0-3 with 0.38% Prodiamine**

EPA No: 961-365

Recommended use: This product is a mixed fertilizer/herbicide 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:**H317: May cause allergic skin reaction with repeated contact. (Category 1B)  
H333: May be harmful if inhaled repeatedly over prolonged periods. (Category 5)  
H350: May cause cancer. (Category 1A)  
H373: May cause damage to organs through prolonged or repeated exposure. (Category 2)  
May irritate the digestive tract if ingested.**Precautionary Statements for handling:**P201: Obtain special instructions before use.  
P202: Do not handle until all safety precautions have been read and understood.  
P260: Do not breath dust.  
P272: Contaminated work clothing should not be allowed out of the workplace.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P281: Use appropriate personal protective equipment as required to avoid breathing dust.  
P308: If exposed or concerned, seek medical advice.  
P314: Get medical advice/attention if you feel unwell.  
P332, 352: If skin irritation occurs: Wash with soap and water. Seek medical attention if irritation persists.  
P363: Wash contaminated clothing before reuse.  
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 &lt;1% of the mixture consists of ingredients of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical Name                        | CAS No.    | Weight %       |
|--------------------------------------|------------|----------------|
| Prodiamine                           | 29091-21-2 | 0.38           |
| *Dolomitic limestone                 | 16389-88-1 | 40 - 45        |
| *Quartz silica                       | 14808-60-7 | 2 - 4 (estim.) |
| Nonhazardous ingredients and fillers | 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<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. 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 to avoid breathing dust. Wash hands thoroughly after handling.
- Storage Conditions**            Keep containers tightly closed and locked up in a cool, well- ventilated place. Keep away from food, drink and animal feed. 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 IDLH*            |
|----------------|--------------------------------------|--|------------------------|
| Quartz silica  | 0.025 mg/m <sup>3</sup> (respirable) | (30 mg/m <sup>3</sup> ) ÷ (%SiO <sub>2</sub> + 2)                                    | 3000 mg/m <sup>3</sup> |
| Nuisance Dusts | 10 mg/m <sup>3</sup> (TWA)           | 15 mg/m <sup>3</sup> (TWA total)<br>50 mppcf (TWA total)<br>5 mppcf (TWA respirable) | Not Established        |

\*IDLH refers to amounts that are "Immediately Dangerous to Life or Health"

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

**Individual protection measures:** Wear protective gloves/protective clothing/eye protection/face protection.

- 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**

Stable

**Chemical stability**

Active ingredient (prodiamine) is electrically conductive.

**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.  |
| Sensitization                      | Sensitizing (guinea pig)  |
| Germ cell mutagenicity             | No information available  |
| Carcinogenicity                    | Prodiamine caused benign thyroid tumors (rat). None observed in mice.<br>Potential occupational carcinogen: Naturally mined minerals, like limestone typically contain sand (quartz 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 (prodiamine) | Fetal toxicity at high doses (rats); developmental and maternal toxicity observed at 1g/kg/d.   |
| STOT - single exposure             | No information available  |
| STOT - repeated exposure           | No information available  |
| Chronic toxicity (prodiamine)      | Skin sensitization possible.  |
| Chronic toxicity (silica)          | Lungs: silicosis, cancer.   |
| Target Organ Effects               | Liver (alteration and enlargement) and thyroid effects (hormone imbalances) at high dose levels (rats); Increased body weight gains.  |
| 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 herbicide ingredients are toxic to aquatic plants, fish and 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.

Application around a cistern or well may result in contamination of groundwater or drinking water, particularly where soils are permeable and water table is shallow.

**Ecotoxicity**

(prodiamine):

- Fish (Bluegill Sunfish) 96-hour LC50 > 552 ppb
- Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 > 83 ppb
- Bird (Bobwhite Quail) 14-day LD50 > 2250 mg/kg
- Mallard 8-day Dietary LC50: >10,000 mg/L
- Bees LC50/EC50: >100 ug/bee

|                               |                                 |
|-------------------------------|---------------------------------|
| Persistence and degradability | Persistent and immobile in soil |
| Bioaccumulation               | Does not bioaccumulate.         |
| Other adverse effects         | No information available        |

**13. DISPOSAL CONSIDERATIONS**

**Disposal of wastes:** (Example)

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**

|                       |                |              |               |
|-----------------------|----------------|--------------|---------------|
| <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**

|                         |         |
|-------------------------|---------|
| <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: Chronic Health Hazard (delayed)

Section 313 Toxic Chemicals: None

**State Regulations – General:**

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

**California Prop 65:** This product contains detectable quantities of chemicals (prodiamine; quartz sand mineral) 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.