1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name: Turf Nurture

EPA No: Not applicable

Product Identity: Bio Granular Fertilizer/Inoculant

Supplier/Manufacturer
Lebanon Seaboard Corporation
1600 East Cumberland Street
Lebanon PA 17042
Tel: 1-800-233-0628 USA
(717-273-1685) INTL Supplier Email: customerservice@lebsea.com

Emergency telephone numbers:
Chemtrec (Spill) 1-800-424-9300 Prosar (Health) 888-208-1368

2. HAZARDS IDENTIFICATION

OSHA Signal Word: Warning

Classification:
H315: Causes skin irritation. (Category 2), Skin corrosion/irritation
H333: May be harmful if inhaled. (Category 5), Acute toxicity, inhalation

Hazard Statements:
See Section 16 for a full list of Hazard Statements

Precautionary Statements for handling:
P264: Wash hands and exposed skin thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P362: Take off contaminated clothing and wash before reuse.
P352: IF ON SKIN: Wash with plenty of soap and water.
P312: IF INHALED: Call » POISON CENTER or doctor/physician if you feel unwell.
P313: If skin irritation occurs: Get medical advice/ attention.
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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>FEATHERMEAL</td>
<td>68952-07-8</td>
<td>25 - 30</td>
</tr>
<tr>
<td>Glucose</td>
<td>50-99-7</td>
<td>1 - 5</td>
</tr>
<tr>
<td>SOY PROTEIN CONCENTRATE FLAKE</td>
<td>9010-10-0</td>
<td>5 - 10</td>
</tr>
<tr>
<td>Methylene ureas</td>
<td>9011-05-6</td>
<td>15 - 20</td>
</tr>
<tr>
<td>Glucose</td>
<td>50-99-7</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Urea</td>
<td>57-13-6</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Calcium lignosulfonate</td>
<td>8061-52-7</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Wheat</td>
<td>130498-22-5</td>
<td>10 - 15</td>
</tr>
<tr>
<td>Potassium sulfate</td>
<td>7778-80-5</td>
<td>15 - 20</td>
</tr>
<tr>
<td>MEAT AND BONE MEAL</td>
<td>68920-45-6</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

### 4. FIRST AID MEASURES

**Eye Contact**  
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**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 you feel unwell, call a poison control center or 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 for nuisance dusts.

**Most important symptoms and effects, both acute and delayed:** Nuisance dust irritation may occur with nasal discomfort under highly dusty conditions.  
Eye irritation on contact with redness, tearing and burning sensation.  
Coughing, sneezing, or irritation of nose and throat.  
Redness, itching, or burning sensation on skin with prolonged contact.

**Indication of any immediate medical attention and special treatment needed:** Treat Symptoms. Consult physician if discomfort or irritation persists.

### 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 extinguisher 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 (bunker) gear.

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**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment, and emergency procedures**

**Personal Precautions**

Use dust mask and gloves as needed or other reasonable personal protective equipment as required to prevent contact with eyes or skin. Remove ignition sources prior to clean-up.

If experiencing significant respiratory symptoms: seek medical attention.

**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 dust mask and/or reasonable personal protective equipment as required to avoid breathing dusts. Moisten or cover powder spill with plastic sheet or tarp to minimize spreading. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Soak up excess with inert absorbent material. Clean contaminated surface thoroughly.

---

**7. HANDLING AND STORAGE**

**Safe Handling**

Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required to avoid breathing dusts or mists, and to prevent eye contact. Wash hands thoroughly after handling.

**Storage Conditions**

Keep containers tightly closed in a cool, well-ventilated place. 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**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nuisance Dists (for granulars)</td>
<td>10 mg/m3 (TWA- Total)</td>
<td>15 mg/m3 (TWA total) 50 mppcf (TWA total) 5 mppcf (TWA respirable)</td>
<td>Not Established</td>
</tr>
</tbody>
</table>

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

Engineering controls: Use with adequate ventilation and follow safe work practices to prevent
dust buildup in air.

**Individual protection measures** Use personal protective equipment as required to avoid breathing dust/mist, and to prevent eye contact.

- **Eye protection**
  Provide face and eye protection: face shield and goggles recommended if face or eye contact is likely.

- **Skin and Body Protection**
  Gloves and standard work 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.

Also see Precautionary Statements in Section 2

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Granular Solid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Granular Solid</td>
</tr>
<tr>
<td>Color</td>
<td>Mixed, various</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash point</td>
<td>No information available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not applicable</td>
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<tr>
<td>Flammability (solid, gas)</td>
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<tr>
<td>Flammability Limits in Air</td>
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<td>Upper flammability limit</td>
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<tr>
<td>Lower flammability limit</td>
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<tr>
<td>Vapor pressure</td>
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<tr>
<td>Vapor density</td>
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<tr>
<td>Water solubility</td>
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<tr>
<td>Solubility in other solvents</td>
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</tr>
<tr>
<td>Partition coefficient</td>
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</tr>
<tr>
<td>Autoignition temperature</td>
<td>No information available</td>
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<tr>
<td>Decomposition temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Not particularly reactive</td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

**Reactivity**
Not 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.
- Eye irritation on contact with redness, tearing and burning sensation.
- Coughing, sneezing, or irritation of nose and throat.
- Redness, itching, or burning sensation on skin with prolonged contact.

Sensitization
No information available.

Germ cell mutagenicity
None known unless noted below in Other

Carcinogenicity
None

Reproductive toxicity
The bacteria in this product are typically harmless strains, and are not associated with disease or infection healthy people (Biosafety Level 1). However, use good hygiene practices. Handle as rich soil or compost. Nonporous gloves recommended. Wash hands thoroughly after handling. Avoid breathing dust. Persons with severely compromised immune systems should consult with their physician before handling microbial products.

STOT - single exposure
No information available

STOT - repeated exposure
No information available

Chronic toxicity
Yes

Target Organ Effects
Lungs-Nuisance dusts

Aspiration hazard
No information available

Other
The bacteria in this product are typically harmless strains, and are not associated with disease or infection healthy people (Biosafety Level 1). However, use good hygiene practices. Handle as rich soil or compost. Nonporous gloves recommended. Wash hands thoroughly after handling. Avoid breathing dust. Persons with severely compromised immune systems should consult with their physician before handling microbial products.

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.

Persistence and degradability
No information available

Bioaccumulation
No information available

Other adverse effects
No information available

13. DISPOSAL CONSIDERATIONS
**Disposal of wastes:**
Excess product should be used up according to label directions, to avoid disposal issues. Dispose of in accordance with Local, State, and Federal regulations.

**Contaminated packaging**
Dispose empty container with normal trash, unless prohibited by local regulations.

### 14. TRANSPORT INFORMATION

NMFC 68140-4 FERTILIZER COMPOUNDS (MANUFACTURED FERTILIZERS) NOI, DRY 20 OR GREATER PCF

<table>
<thead>
<tr>
<th>DOT</th>
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</thead>
<tbody>
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<tr>
<td>Hazard Class</td>
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<tr>
<td>IATA</td>
<td>Not Regulated</td>
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<tr>
<td>Proper Shipping Name</td>
<td>Not Regulated</td>
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<tr>
<td>Hazard Class</td>
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</tr>
<tr>
<td>IMDG/IMO</td>
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<tr>
<td>Proper Shipping Name</td>
<td>Not Regulated</td>
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<tr>
<td>Hazard Class</td>
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</tr>
<tr>
<td>IMDG</td>
<td>Not Regulated</td>
</tr>
<tr>
<td>Proper Shipping Name</td>
<td>Not Regulated</td>
</tr>
<tr>
<td>Hazard Class</td>
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<tr>
<td>ADR</td>
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<td>Proper Shipping Name</td>
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<tr>
<td>Hazard Class</td>
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<td>ADN</td>
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<tr>
<td>Proper Shipping Name</td>
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<tr>
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<td>Hazard Class</td>
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<td>ICAO</td>
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<td>Proper Shipping Name</td>
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<td>Hazard Class</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>MEX</td>
<td>Not Regulated</td>
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<tr>
<td>Proper Shipping Name</td>
<td>Not Regulated</td>
</tr>
<tr>
<td>Hazard Class</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

### 15. REGULATORY INFORMATION

**TSCA (USA):** Complies.

**General Product Information:** This product is not federally regulated as a hazardous material.

**Clean Air Act:** No information is available.

**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)

**SARA 313 Superfund Amendments:** This product contains no chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal regulations, Part 372.
SARA 311/312 Hazard Categories:
Acute: Yes
Chronic: Yes
Fire: No
Sudden release of pressure: No
Reactive: No

CERCLA: This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) and Superfund.

Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

State Regulations:
California Proposition 65: This product does not contain detectable quantities of chemicals known to the State of California to cause cancer or birth defects, or other reproductive harm.

Component Analysis - State: None

16. OTHER INFORMATION

Hazard Statements:
H315: Causes skin irritation. (Category 2)
H333: May be harmful if inhaled. (Category 5)

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.