

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY**

Product Name: ROOTS Healthy Start Macro Tabs 12-8-8

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: None

Classification:

Hazard Statements:

None

Pictogram:None

Precautionary Statements for handling:

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 %
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**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.

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, CO<sub>2</sub>, 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.

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.
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 Guidlines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH*
Nuisance Dusts (for granulars)	10 mg/m3 (TWA- Total)	15 mg/m3 (TWA total) 50 mppcf (TWA total) 5 mppcf (TWA respirable)	Not Established

\*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 Precuationary Statements in Section 2

9. PHYSICAL AND CHEMCIAL PROPERTIES

Physical state

Granular Solid

Appearance

Granular Solid

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
Water solubility	Mostly insoluble
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 particularly reactive

## 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 (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	No information available.
Germ cell mutagenicity	None known unless noted below in Other
Carcinogenicity	None
Reproductive toxicity	No information available.
STOT - single exposure	No information available
STOT - repeated exposure	No information available
Chronic toxicity	No information available
Target Organ Effects	Lungs-Nuisance dusts

Aspiration hazard	No information available
Other	

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 68140-5 FERTILIZER COMPOUNDS (MANUFACTURED FERTILIZERS) NOI, DRY 20 OR GREATER PCF

<b>DOT:</b>	Not Regulated
Proper Shipping Name:	Not Regulated
Hazard Class:	Not Applicable
<b>IATA:</b>	Not Regulated
Proper Shipping Name:	Not Regulated
Hazard Class:	Not Applicable
<b>IMDG/IMO:</b>	Not Regulated
Proper Shipping Name:	Not Regulated
Hazard Class:	Not Applicable
<b>IMDG:</b>	Not Regulated
Proper Shipping Name:	Not Regulated
Hazard Class:	Not Applicable
<b>ADR:</b>	Not Regulated
Proper Shipping Name:	Not Regulated
Hazard Class:	Not Applicable
<b>ADN:</b>	Not Regulated
Proper Shipping Name:	Not Regulated
Hazard Class:	Not Applicable
<b>RID:</b>	Not Regulated
Proper Shipping Name:	Not Regulated
Hazard Class:	Not Applicable
<b>TDG:</b>	Not Regulated
Proper Shipping Name:	Not Regulated
Hazard Class:	Not Applicable
<b>ICAO:</b>	Not Regulated
Proper Shipping Name:	Not Regulated
Hazard Class:	Not Applicable
<b>MEX:</b>	Not Regulated
Proper Shipping Name:	Not Regulated
Hazard Class:	Not Applicable

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

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.