SAFETY DATA SHEET

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name: Roots Holly Boost 6-4-6

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:

H316: Causes mild skin irritation. (Category 3), Skin corrosion/irritation

Hazard Statements:

H316: Causes mild skin irritation. (Category 3)

Pictogram:



Precautionary Statements for handling:

P332: 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

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Chemical Name	CAS No.	Weight %
Feathermeal	68952-07-8	35 - 40
ROCK PHOSPHATE	65996-94-3	20 - 25
Potassium Sulfate	7778-80-5	10 - 15
Meat and Bone Meal	68920-45-6	10 - 15
Wheat	130498-22-5	5 - 10
Sulfur	7704-34-9	1 - 5
Humic Acid	1415-93-6	1 - 5

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.

<u>Self-protection of the first aider:</u> Use any appropriate personal protective equipment as required for nuisance dusts.

<u>Most important symptoms and effects, both acute and delayed:</u> Nuisance dust irritation may occur with nasal discomfort under highly dusty conditions.

Eye irritation on contact with redness, tearing and burning sensation.

Redness, itching, or burning sensation on skin with prolonged contact.

<u>Indication of any immediate medical attention and special treatment needed:</u> 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

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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*
Sulfur		TWA 5 ppm (13 mg/m3)	
Quartz Sand Silica	0.025 mg/m3 (respirable)	6 mg/m3 (resp)	
Nuisance Dusts (for granulars)	10 mg/m3 (TWA- Total)	15 mg/m3 (TWA total) 50	Not Established
		mppcf (TWA total) 5 mppcf	
		(TWA respirable)	

^{*}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 measuresUse 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

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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
Partition coefficient
Autoignition temperature
Decomposition temperature
Oxidizing properties
No information available

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

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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. 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.

No information available.

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

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

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

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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: Right-to-Know: Sulfur NJ, PA, RI

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.

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