



1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name: **Natural Start by GreenView Tomato, Vegetable & Herb Food**

Product Identity: Mixed granular fertilizer

Recommended use

This product is a mixed granular fertilizer for garden and landscape use.

Supplier/Manufacturer

Lebanon Seaboard Corporation
1600 East Cumberland Street
Lebanon PA 17042 USA
800-233-0628
(717-273-1685)

Emergency telephone numbers:

Chemtrec (Spill) 1-800-424-9300

Prosar (Health) 888-208-1368

2. HAZARDS IDENTIFICATION

Hazard Statements

H272: May intensify fire; contains an oxidizer (Category 3)

H302: May be harmful if swallowed. (Category 4)

H318: Causes serious eye damage, irritation. (Category 1)

H335: May cause respiratory irritation

H315: Causes skin irritation (Category 2)

Keep out of reach of children



Signal Word: Danger

Precautionary Statements for Handling: See also Section 7.

P210: Keep away from heat, sparks, open flames, and hot surfaces. No smoking.

P220, 221: Keep/Store away from clothing and combustible materials. Take any precaution to avoid mixing with combustibles.

P233: Keep container tightly closed.

P261: Avoid breathing dust.

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301, P310, P330: If swallowed, rinse mouth and immediately call a POISON CENTER or doctor/physician.

P312: If exposed, call a POISON CENTER or doctor/physician if you feel unwell.

P332: If skin irritation occurs: Wash with plenty of soap and water. Seek medical attention if irritation persists.

P340: In case of breathing difficulty, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P351: Rinse cautiously with water for several minutes.

P352: If on skin, wash with plenty of soap and water.

P362: Take off contaminated clothing and wash before reuse.

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P378: Use extinguishing media suitable to local circumstances and the surrounding environment.

P403, P405: Store in a well-ventilated place, and locked up.

Precautionary Statements for disposal - Dispose in accordance with all federal, state and local regulations. See Section 13.

Hazards not otherwise classified (HNOC): None

Unknown acute toxicity: <1% of the mixture consists of ingredients of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS#	%
Nitric acid, ammonium calcium salt	15245-12-2	20 - 25
DIAMMONIUM PHOSPHATE	7783-28-0	10 - 15
FERROUS SULFATE	7782-63-0	1 - 5
MANGANESE SULFATE	7785-87-7	0.1 - 1
Nonhazardous ingredients and fillers	Various	Balance

4. FIRST AID MEASURES

Eye Contact	Rinse eyes cautiously with water for several minutes, keeping eyelids open. Remove any contact lenses if easy to do, and continue rinsing. If discomfort or irritation persists contact a physician.
Skin Contact	Wash with soap and water. If injury occurs, or if discomfort or irritation persists or rash occurs, 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 unless directed to do so by competent medical authority.

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:

Eye: Pain, watering, redness.

Skin: Redness, irritation.

Ingestion: Harmful if swallowed. May cause burns to mouth, throat and stomach.

Dust irritation may occur with nasal discomfort under dusty conditions.

Indication of any immediate medical attention and special treatment needed: May cause burns to mouth, throat, and stomach if swallowed Rinse eyes promptly and thoroughly. Treat Symptoms. Consult physician. Get medical advice or attention if you feel unwell.

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

May intensify fire; contains an oxidizer. Keep away from heat, sparks, open flames, and hot surfaces. No smoking.

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	Avoid dispersal of spilled material and runoff into waterways, drains and sewers. 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	Read and understand all safety precautions before handling. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required to avoid breathing product 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 away from fuels, oils and grease and combustible materials. Keep out of the reach of children.
Incompatible materials	Avoid strong acids or alkali, or other reactive substances. Keep/Store away from clothing and combustible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH*
Nuisance Dusts	10 mg/m ³ (TWA- inhalable)	15 mg/m ³ (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 Wear protective gloves/protective clothing/eye protection/face protection.

Eye protection	Safety glasses, or goggles if eye contact is likely
Skin and Body Protection	Chemical-resistant 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.

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 Limit 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 will 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	Contains an oxidizer

10. STABILITY AND REACTIVITY

Reactivity

Contains an oxidizer.

Chemical stability

Stable.

Possibility of Hazardous Reactions

May intensify fire; contains an oxidizer. May release heat and fumes when mixed in solution with incompatible or reactive materials.

Hazardous polymerization

Will not occur.

Conditions to avoid

High heat, sparks and open flames, as some ingredients may be burnable.

Incompatible materials

Keep/Store away from clothing and combustible materials. Take any precaution to avoid mixing with combustibles, 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 cause burns to mouth, throat, and stomach if swallowed, causing nausea, vomiting and diarrhea. Serious eye irritation with redness, tearing, and possible damage. Skin irritation with itching, redness, pain possible. Large oral doses of nitrates may cause dizziness, abdominal pain, vomiting, bloody diarrhea, weakness, convulsions, and collapse. May interfere with blood's capability to carry oxygen (methemoglobinemia), as evidenced by bluish color to skin and lips. Mist inhalation can result in irritation with nasal discomfort; skin irritation possible, but not likely with normal use.
Sensitization	Not a sensitizer.
Germ cell mutagenicity	No information available
Carcinogenicity	Not listed as carcinogenic.
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	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.

Persistence and degradability	Mostly biodegradable; Not expected to persist in environment, based on composition
Bioaccumulation	Not expected to bioaccumulate, based on composition
Other adverse effects	No information available

13. DISPOSAL CONSIDERATIONS

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

Disposal of wastes:

- This product is a non-hazardous waste material suitable for approved solid waste landfills.
- No EPA Waste Numbers are applicable for this product's components.
- Dispose of in accordance with Local, State, and Federal regulations.

Contaminated packaging

No US Federal special packaging considerations at the date of this document. Follow local regulations.

14. TRANSPORT INFORMATION

NOT A DOT REGULATED PRODUCT.

49 CFR 172.102 Special provision 34 specifically removes the calcium nitrate double salt (calcium nitrate and ammonium nitrate, CAS# 15245-12-2) from the hazardous materials table 49 CFR 172.101.

IMDG:	Not a dangerous good.
ICAO/IATA:	Not a dangerous good.

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

A: General Product Information

Some components are on the U.S. EPA TSCA Inventory List. This product does not contains a hazardous material.

B: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4):

Nitric acid, ammonium calcium salt (CAS# 15245-12-2) SARA 313:

- 1 % *de minimis* concentration (Chemical Category N511) (related to Water Dissociable Nitrate Compounds). This formulation contains 20-25% of this compound.

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:	No
Fire:	No
Sudden release of pressure:	No
Reactive:	No

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).

State Regulations – General:

This product is not regulated by any State as a hazardous material.

Component Analysis – State

None of this product’s components are on the state lists from CA, FL, MA, MN, NJ, or PA.

California Proposition 65: This product may contain trace amounts of a substance (sand, quartz) known to the State of California to cause cancer.

International Inventories

Component Analysis – WHMIS IDL

No components are listed in the WHMIS IDL.

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.