Safety Data Sheet

Section 1. Identification

Product Name: **Roots Organics Phos Rock**

Recommended for use as a plant nutrient. Great for plants but do not breathe in, spill on, or feed to people or pets.

Company: Aurora Innovations post office box 22041 • Eugene, Oregon 97402 www.aurorainnovations.com

Phone: 866 376 8578 (toll free); Emergency Phone: 1 (800) 424-9300

Section 2. Hazard(s) identification

Hazardous components:

		OSHA PEL		ACGIH TVL	
Nuisance dust	CAS	Total	Respirable	Total	Respirable
Non-hazardous	N/A	15 mg/m3	15 mg/m3	10 mg/m3	3 mg/m3

Product not classified hazardous under OSHA Hazard Communication Standard 29 CFR 1910.1200, Health Hazard. Classified under ACGIH as Nuisance Dust or Particulates Not Otherwise Classified.

See product label for ingredients and use instructions

Section 3. Composition

Chemical description: Phos Rock mined from bat guano deposits. Dry brown powder with odor of ammonia.

Section 4. First Aid Measures

Inhalation: Dust can cause irritation and choking. Biologically active. Persons allergic to spores may be sensitive. Acute or chronic lung infection (Histoplasmosis) may occur from inhalation of fine bat guano dust containing spores of Histoplasma capsulatum. Remove to fresh air, if breathing difficult, administer oxygen. Consult physician.

Eyes: Will irritate on contact, wash out quickly to remove particulate matter. Contact a physician if irritation persists.

Ingestion: Purge by vomiting if victim is conscious.

Skin: Wash skin or open wounds gently with mild soap/detergent and flowing water.

Signs/symptoms of exposure: Inhaling nuisance dust over long periods may cause congestion and irritation of the lungs and upper respiratory system; may overload lung clearance and make lungs vulnerable to respiratory disease. May aggravate medical conditions such as bronchitis, emphysema, asthma and upper respiratory and lung diseases.

Carcinogenicity: None known.

Section 5. Fire Fighting Measures and Explosion Information

Flash point	Not applicable
Flammable limits	May char or smolder if exposed to fire, may be induced to burn
Extinguishing media	Water, CO2
Special fire fighting procedures	No special methods required
Special fire and explosion hazards	May emit corrosive fumes when charred by intense heating

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Section 6. Accidental Release Measures

Avoid creating dust when cleaning up. Scoop, shovel or sweep to labeled containers for recycling/ salvage if not contaminated by other material. Dispose of as soil.

Section 7. Handling and Storage

Respiratory protection: Not normally needed. If dusting occurs, use approved respirator to eliminate exposure.

Protective gloves/clothing: Rubber or plastic recommended if repeated or prolonged contact expected.

Eye protection: Safety glasses or chemical splash goggles recommended where dusting is expected.

Work practices: Use good housekeeping practices. Keep containers tightly closed.

Ventilation: Exhaust fan recommended for dust control and potential ammonia odor.

Incompatibility: None known.

Precautions in storing and handling: Product should be kept dry. Avoid storage in wet or moist areas.

Section 8. Exposure controls/personal protection

Respiratory protection: Use approved dust mask with organic filter to eliminate exposure. If wet, use respirator to protect against ammonia. Dust can cause irritation and choking.

Protective gloves/clothing: Rubber or plastic recommended if repeated or prolonged contact expected.

Eye protection: Chemical splash goggles recommended if splash hazard possible. Safety glasses suffice otherwise.

Work practices: Use good housekeeping practices. Keep containers tightly closed.

Ventilation: Typically none is required. Exhaust fan recommended where dust is expected or if breathing difficult.

Waste disposal method: Package material for removal to an approved landfill, or dispose of as soil.

Section 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

a) Appearance	Brown powder
b) Odor	Odor of ammonia
c) Odor Threshold	No data available
d) pH	7.6 @10% dispersion in water
e) Melting/freezing point	Not determined
f) Initial Boiling Point	Not applicable
g) Flash Point	No data available
h) Evaporation Rate	No data available
i) Flammability	No data available
j) Upper/Lower Flammability or Explosive Limits	No data available
k) Vapor Pressure	No data available
l) Vapor Density	No data available
m) Relative density	No data available
n) Water Solubility	No data available
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition Temperature	No data available
q) Decomposition Temperature	No data available
s) Explosive Properties	No data available
t) Oxidizing properties	No data available

9.2 Other safety Information
No data available

Section 10. Stability and Reactivity

10.1 Reactivity
No data available
10.2 Chemical Stability
Stable under recommended storage conditions
10.3 Possibility of hazardous reactions
No data available
10.4 Conditions to Avoid
No data available
10.5 Incompatible Materials
Strong oxidizing agents
10.6 Hazardous Decomposition Products
No data available

Section 11. Toxicological Information

11.1 Information on Toxicological Effects
Acute Toxicity
No data available
Inhalation: No data available
Dermal: No data available
Ingestion: No data available
Skin corrosion/irritation
No data available
Serious eye irritation
No data available
Respiratory or skin sensitization
No data available
Germ cell mutagenicity
No data available
Carcinogenicity
IARC: No component of this product present at levels greater or equal to 0.1% is identified as a probable, possible or confirmed carcinogen by IARC.
ACGIH: No component of this product present at levels greater or equal to 0.1% is identified as a probable, possible or confirmed carcinogen by ACGIH.
NTP: No component of this product present at levels greater or equal to 0.1% is identified as a probable, possible or confirmed carcinogen by NTP.
OSHA: No component of this product present at levels greater or equal to 0.1% is identified as a probable, possible or confirmed carcinogen by IARC.
Reproductive Toxicity
No data available
Specific Target Organ Toxicity-Single Exposure
No data available
Specific Target Organ Toxicity-Repeated Exposure
No data available
Aspiration Hazard
No data available
Other information
To the best of our knowledge, the chemical, physical, and toxicological properties of this product have not been thoroughly tested.

Section 12. Ecological Information

No data available

Section 13. Disposal Considerations

Dispose of any unused product and packaging in accordance with all applicable local, state and federal regulations.

Section 14. Transport information

DOT
Not dangerous goods
IMDG
Not dangerous goods
IATA
Not dangerous goods

Section 15. Regulatory Information

SARA 302
No chemicals in this product are subject to the reporting requirement of SARA Title III, section 302

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, 313

Section 16. Other Information

The information and data herein are believed to be accurate and have been compiled from sources believed to be current and reliable. It is offered for your consideration, investigation and verification. Buyer assumes all risks of use, storage and handling of product in compliance with applicable federal, state and local laws and regulations.