

Material Safety Data Sheet

Roots Organics Phos Bat Guano 0-7-0

Last Revision: December, 2009

Emergency Phone: (541) 913-9612

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Product Identification

Name: **Phos Bat Guano**

Chemical description: Dry brown powder with odor of ammonia.

Hazardous components: Bat Guano contains Ammoniacal Nitrogen

Company: Aurora Innovations, Inc. (541) 359-1580 www.aurorainnovations.org

Physical/Chemical Characteristics

Boiling point	Not applicable
Vapor pressure	Not applicable
Vapor density	Not applicable
Evaporation rate	Not applicable
Melting point	Not applicable
Specific gravity	Not applicable
pH	7.3 @ 10% dispersion in water
Solubility in water	Not applicable
Appearance	Brown powder
Odor	Odor of ammonia

Fire and Explosion Information

Flash point (Method Used)	None (LEL, UEL)
Flammable limits	None Known
Extinguishing media	Water, CO ₂ , Dry Chemical Foam
Special fire fighting procedures	Treat as Class A
Special fire and explosion hazards	Keep dusty air produced away from open flames or electric sparks

Reactivity Data

Stability	Stable at normal temperatures
Conditions to avoid	Strong winds
Incompatibility	None Known
Hazardous decomposition	None Known
Hazardous polymerization	None Known

Health Effects/First Aid information

Routes of entry:

Inhalation: Dust can cause irritation and choking. Biologically active. Persons allergic to spores may be sensitive. Acute or chronic lung infection may occur from inhalation of fine dust containing spores of *Histoplasma capsulatum* (Histoplasmosis).

Eyes: Will irritate on contact, wash out immediately.

Ingestion: Not toxic, but in moderate amounts will cause nausea and vomiting.

Skin: Brief contact with the skin is not toxic. Exposure to open wound will cause irritation and possible infection.

Signs/symptoms of exposure: Eye irritation and or sneezing, coughing and difficulty breathing.

Carcinogenicity: Ingredients not listed as carcinogenic in NTP or IARC listings. Not OSHA regulated.

Emergency and First Aid Procedures:

Inhalation: Remove to fresh air. If breathing difficult, administer oxygen. Consult physician.

Eyes: Flush immediately with water, lift lids. See physician if irritation persists.

Ingestion: For small amounts, drink plenty of water. More than a mouthful should be purged by vomiting, but only if the victim is conscious. Get medical help.

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

Precautions for Safe Handling and Use

Respiratory protection: Use approved dust mask with organic filter to eliminate exposure. If wet, use respirator to protect against ammonia.

Ventilation: Exhaust fan recommended for control of dust.

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. Frequent hand washing recommended. Bathe to remove dust after repeated or prolonged contact.

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

Waste disposal method: Package material for removal to approved landfill. No other special disposal precautions.

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