

Material Safety Data Sheet

Roots Organics HPK 0-5-4

Last Revision: December, 2009

Emergency Phone: (541) 913-9612

715 045
050
055
060

Product Identification

Name: **HPK**

Chemical description: Soluble phosphate and potassium extracted from Guano and Langbeinite

Hazardous components: None

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

Physical/Chemical Characteristics

Boiling point	Above 212 F
Vapor pressure	Not determined
Vapor density	Not determined
Evaporation rate	Not determined
Melting point	NA
Specific gravity	1.3
pH	3.9
Solubility in water	Low concentration of soluble P ₂ O ₅ and K ₂ O as well as fine, insoluble sediment suspension
Appearance	Tan to brown thick liquid
Odor	Non-offensive chalky smell

Fire and Explosion Information

Flash point	Not applicable
Flammable limits	Not determined
Extinguishing media	Water, CO ₂
Special fire fighting procedures	No special methods required
Special fire and explosion hazards	None

Reactivity Data

Stability	Stable at normal temperatures
Conditions to avoid	High pH conditions
Incompatibility	High pH or Calcium products may cause P ₂ O ₅ precipitation
Hazardous decomposition	None
Hazardous polymerization	Will not occur

Spill or Leak Procedures

Contain spill to prevent discharge into the environment. Absorb spill with appropriate material and flush with water.

Health Effects/First Aid Information

Inhalation: Help victim to fresh air, if breathing difficult, administer oxygen. Consult physician.

Eyes: Will irritate on contact, wash out quickly to remove all particulate matter.

Ingestion: If swallowed contact a physician immediately for course of action.

Skin: Avoid contact, may cause irritation. Wash with soap and water.

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

Precautions for Safe Handling and Use:

Respiratory protection: Not normally needed.

Ventilation: Typically none is required.

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

Eye protection: Chemical splash goggles recommended where splash hazard is possible.

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

Precautions for storing and handling: Avoid storage areas with high temperatures or direct sunlight.
