Material Safety Data Sheet Roots Organics HPK 0-5-4

7150430 Emergency Phone: (541) 913-9612 Last Revision: December, 2009

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 pΗ 3.9

Solubility in water Low concentration of soluble P2O5 and K2O as well as fine, insoluble

sediment suspension

Appearance Tan to brown thick liquid Non-offensive chalky smell Odor

Fire and Explosion Information

Flash point Not applicable Flammable limits Not determined Extinguishing media Water, CO2

Special fire fighting procedures
Special fire and explosion hazards

Water, CO₂
No special methods required
None

Reactivity Data

Stability Stable at normal temperatures

Conditions to avoid High pH conditions

Incompatibility High pH or Calcium products may cause P2O5 precipitation

Hazardous decomposition None Hazardous decomposition 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.

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