I. PRODUCT IDENTIFICATION

Common Name: Potassium Humate
Synonyms: See Above
Manufacturer: LignoTech USA, Inc.
Shipping Name - DOT: Coal - Class 50
Hazard Class - DOT: Not Restricted
Hazard Class IATA: Not Restricted

Chemical Formula: Amorphous Polymer
Chemical Family: Humic Acid K Sats
CAS Numbers: 68514-28-3
UN Number: Excluded
Physical State: Powder

HMIS Rating (0-4): HEALTH = 1  FIRE = 1  REACTIVITY = 0  SPECIAL = 0

WARNING
NIUANCE DUST -- As with all dusts, avoid high concentrations

II. HAZARDOUS INGREDIENTS

Principal Hazardous Components | Percent | Threshold Limit Value (units)
Silica, Crystalline | 1% | CAS #014808-60-7, 0.05 mg/m3 NIOSH

III. PHYSICAL DATA

Boiling Point (C): Not Applicable
Freezing Point (C): Not Applicable
Vapor Pressure (mm Hg): Not Applicable
Vapor Density (Air = 1): Not Applicable
% Volatiles By Weight: 6-10% H20
Appearance & Odor: Black powder with slight odor

Specific Gravity (25 C): Not Applicable
pH (3% Soln.): 8.5
Bulk Density (g/ml): 0.55
Solubility in Water: 100% Soluble
Evaporation Rate: Not Applicable
Water/Oil Dist. Coeff.: 100% in water

IV. HEALTH HAZARD DATA

Threshold Limit Values: OSHA PEL = 10 mg/M3 for nuisance dust
NIOSH PEL = 0.05 mg/m3 for silica, crystalline

Carcinogen Listings - NTP / IARC: IARC lists inhalated crystalline silicacquartz from occupational sources as group I, carcinogenic to humans.
Primary Route(s) of Entry: Skin contact, eye contact, inhalation
Symptoms of Overexposure: None known.
Conditions Aggravated by Exposure: None known.
Irritancy of Material: Potential irritant to eyes, skin, lungs, nose and throat
Sensitization to Material: None known.
Teratogenicity: None known.
Mutagenicity: None known.
Reproductive Toxicity: None known.
Synergistic Substances: None known.
First Aid -- Eyes: Irrigate with potable water.
Skin: Skin should be cleaned with soap and water
Inhalation: Remove from dusty area
Ingestion: Give water to dilute and get medical attention

Notes to Physician: Very low toxicity. Chronic exposure over the PEL may result in silicosis or other respiratory ailments.

V. FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): Not Applicable
Auto Ignition Temp: 400 C for dust
MATERIAL SAFETY DATA SHEET

PRODUCT NAME: BOHRREGO HA-2 POWDER

Flammable Limits in Air, % by Volume
Lower: 0.2 oz/cu.ft.  Upper: 3.5 oz/cu.ft.

Extinguishing Media
Use water spray, carbon dioxide, dry chemical, alcohol type or universal type foams applied by manufacturer’s recommended techniques

Special Fire Fighting Procedures
Use supplied breathing air and protective clothing

Unusual Fire and Explosion Hazards
Flammable solids may provide conditions for a dust explosion

VI. SPILL OR LEAK PROCEDURES

Spill Response
Mechanically collect and remove spilled material. Area may be washed with water

Neutralizing Chemicals
None required.

Waste Disposal Methods
Incorporate, bury or flush to sewer following applicable regulations

VII. REACTIVITY DATA

Stability:
Stable

Incompatibility:
None

Hazardous Polymerization:
Will not occur

Conditions to Avoid:
None

Materials to Avoid:
None

Hazardous Decomposition Products:
Sulfur dioxide, carbon dioxide, and carbon monoxide

VIII. CONTROL MEASURES

Ventilation Requirements:
Sufficient ventilation is recommended to keep dust levels below the PEL.

Respiratory Protection:
Full respiratory protection program recommended

NIOSH approved dust mask recommended

Protective Gloves:
Gloves recommended

Eye Protection:
Goggles recommended

Other Protective Equipment:
Clothing which contacts skin should be changed daily

IX. SPECIAL PRECAUTIONS

Repair/Maintenance of
Contaminated Equipment
None required.

Hygiene in Handling and Storage
Personal hygiene is strongly encouraged so all clothing items are changed daily

Other:
Normal precautions common to good manufacturing practice should be followed

X. ADDITIONAL REGULATORY CONCERNS

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