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*Use only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals.

I. PRODUCT IDENTIFICATION

Common Name:	Potassium Humate	Chemical Formula:	Amorphous Polymer
Synonyms:	See Above	Chemical Family:	Humic Acid K Salts
Manufacturer:	LignoTech USA, Inc.	CAS Numbers:	68514-28-3
Shipping Name- DOT:	Coal - Class 50		
Hazard Class - DOT:	Not Restricted	UN Number:	Excluded
Hazard Class - IATA:	Not Restricted	Physical State:	Powder

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

WARNING NUISANCE 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	Specific Gravity (25 C):	Not Applicable
Freezing Point(C):	Not Applicable	pH (3% Soln.):	8.5
Vapor Pressure (mm Hg):	Not Applicable	Bulk Density (g/ml):	0.55
Vapor Density (Air = 1):	Not Applicable	Solubility in Water:	100% Soluble
% Volatiles By Weight	6-10% H2O	Evaporation Rate:	Not Applicable
Appearance & Odor:	Black powder with slight odor	Water/Oil Dist. Coeff.:	100% in water

IV. HEALTH HAZARD DATA

Threshold Limit Values	OSHA PELV = 10 mg/M3 for nuisance dust NIOSH PEL = 0.05 mg/m3 for silica, crystalline
Carcinogen Listings- NTP / IARC:	IARC lists inhaled crystalline silicaquartz 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
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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 Incinerate, bury or flush to sewer following applicable regulations

VII. REACTIVITY DATA

Stability: Stable Conditions to Avoid: Contact with strong oxidizing agents

Incompatibility: Materials to Avoid: None

Hazardous Polymerization Will not occur Conditions 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

The information and recommendations contained herein are offered as a service to our customers but are not intended to relieve the user from its responsibility to investigate and understand pertinent sources of information and to comply with all laws and procedures applicable to the safe handling and use of these materials. The information and recommendations provided herein were believed by LignoTech USA, Inc. to be accurate at the time of preparation or obtained from sources believed to be generally reliable. However, LignoTech USA, Inc. makes no warranty concerning their accuracy and LignoTech USA, Inc. will not be liable for claims relating to any party's use of or reliance on information or recommendations contained herein, regardless of whether it is claimed that the information or recommendations are inaccurate, incomplete or otherwise misleading.