

MATERIAL SAFETY DATA SHEET

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SECTION I. PRODUCT IDENTIFICATION

Product Name: Calcium Connect Plus	Chemical Family: Wood Chemicals
Physical State: Powder	Chemical Formula: Amorphous Polymer
Shipping Name: Lignin Pitch – Class 55	CAS number: 8061 52-7
Hazard Class - DOT: Not Restricted	UN Number: Excluded
Warning	Nuisance Dust – As with all dusts, avoid high concentrations

SECTION II. HAZARDOUS INGREDIENTS

Principal Hazardous Components	Percent	Threshold Limit Value (units)
None Known		

SECTION III. PHYSICAL DATA

Appearance and odor: Brown powder with slight odor	
Boiling Point (C): N/A	Bulk Density: 0.37 – 0.56
Vapor Pressure: N/A	Specific Gravity: N/a
Percent Volatile: None	pH (3% soln.): 4.3-5.3
Solubility in Water: 100%	Evaporation Rate: N/A

SECTION IV. FIRE AND EXPLOSION DATA

Flammable limits in air, % by Volume Fire: Lower: 0.2oz./ 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 manufacturers 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

SECTION V. REACTIVITY DATA

Stability: Stable
Incompatibility (materials to avoid). Contact with strong oxidizing agents
Conditions to avoid: None
Hazardous Decomposition Products: Sulfur dioxide, carbon dioxide, and carbon monoxide

SECTION VI. HEALTH HAZARD INFORMATION

Effects of Routine Use: No effects of overexposure to lignosulfonates are known.
Emergency and First Aid Procedures

Contact: Wash with water for 15 minutes	Ingestion: Consult a Physician
Skin Contact: Wash with soap and water	Inhalation: Consult a Physician

SECTION VII. TOXICITY DATA

Carcinogenicity: Not listed as a carcinogen. Not considered to be toxic for humans.
Other Pertinent Data: None

SECTION VIII. SPECIAL PROTECTION INFORMATION

Personal Protective Equipment

Protective Gloves: rubber Eye Protection: Chemical Goggles

Respiratory Protection: Not normally needed but recommend NIOSH-approved respirator.

Other Protective Equipment: N/A

Ventilation:

Local Exhaust: Not normally required

Mechanical: Not normally required

SECTION IX. SPILL, LEAK, AND DISPOSAL PROCEDURES

Spills, Leaks: (Steps to be taken): 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.

SECTION X. REGULATORY INFORMATION

FDA: N/A

USDA: N/A

DOT: Non-regulated

CPSC: N/A

Proper Shipping Name: Organic powder

TSCA: N/A

Label requirements: None

Hazard Class: None

Other Information: None

Identification Number: None

SECTION XI. ADDITIONS REGULATORY CONCERNS

Lignosulfonates are non-toxic & non-irritation. Government regulations for use of lignosulfonates are summarized below:

40 CFR 180.1001 Sections (c) & (e)

SECTION XII. SPECIAL PRECAUTIONS AND COMMENTS

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.

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