

Safety Data Sheet

BORREGRO HA-2 POWDER

SECTION 1: Identification of the substance/preparation and of the company/undertaking

1.1. Product identifier

Trade name: BORREGRO HA-2 POWDER

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended uses: Plant nutrition.

1.3. Details of the supplier of the safety data sheet

Supplier

Company: LignoTech USA, Inc
Address: 100 Grand Avenue
Rothschild, WI 54474-1198
Zip code:
Country: UNITED STATES
E-mail: customer@ltus.com
Phone: +1(715)359-6544
Fax: +1(715)355-3648

1.4. Emergency Telephone Number

+1(715)359-6544 (Emergency phone)
+1(800)424-9300 (Chemtrec phone) (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.2. Label elements

The product shall not be classified as hazardous according to the classification and labeling rules for substance and mixtures.

2.3. Other hazards

Nuisance dust.
OSHA Hazard Category: Combustible Dust. Warning. May form combustible dust concentrations in air.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	CAS number	Concentration	Notes
Humic acid, potassium salt	68514-28-3	≥ 92%	
Water	7732-18-5	≤ 8%	

Safety Data Sheet

BORREGRO HA-2 POWDER

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:	Seek fresh air.
Ingestion:	Wash out mouth thoroughly and drink 1-2 glasses of water in small sips.
Skin contact:	Wash the skin with water. Remove contaminated clothing.
Eye contact:	Flush with water (preferably using eyewash equipment) until irritation subsides. Seek medical advice if symptoms persist.

4.2. Most important symptoms and effects, both acute and delayed

Nuisance dust.

4.3. Indication of any immediate medical attention and special treatment needed

None.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media:	Extinguish with powder, foam, carbon dioxide or water mist.
Unsuitable extinguishing media:	Do not use a jet of water, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture

Note the risk of dust explosion.

5.3. Advice for fire-fighters

Wear Self-Contained Breathing Apparatus with a chemical protection suit.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Avoid formation of dust. Provide good ventilation.

6.2. Environmental precautions

Avoid unnecessary release to the environment. Prevent spillage from entering drains and/or surface water.

6.3. Methods and material for containment and cleaning up

Sweep up/collect spills for possible reuse or transfer to suitable waste containers.

6.4. Reference to other sections

See section 8 for type of protective equipment.
See section 13 for instructions on disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Safety Data Sheet

BORREGRO HA-2 POWDER

Work under effective process ventilation (e.g. local exhaust ventilation).

7.2. Conditions for safe storage, including any incompatibilities

Store in a dry, cool, well-ventilated area. Avoid accumulation of dust.

7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit

Substance name	Time period	ppm	mg/m3	Comment	Remarks
Nuisance dust (OSHA PELV)	OSHA		15	(total) and 5 mg/m3 respirable	

Biological threshold values: Avoid formation of dust.

8.2. Exposure controls

Exposure controls: Ensure good ventilation to keep dust levels below the PEL.

Appropriate engineering controls: Provide good ventilation.

Personal protective equipment, eye/face protection: Wear safety goggles if there is a risk of dust contact with eyes.

Personal protective equipment, skin protection: Wear suitable protective clothing.

Personal protective equipment, hand protection: In the event of direct skin contact, wear protective gloves.

Personal protective equipment, respiratory protection: Wear respiratory protective equipment with P2 filter when performing dusty work. NIOSH approved dust mask recommended.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Parameter	Value/unit
State	Powder
Colour	Brown
Odour	Mild
Solubility	Water soluble.
Explosive properties	No data
Oxidising properties	No data

Parameter	Value/unit	Remarks
pH (solution for use)	8 - 10	
pH (concentrate)		Not applicable.
Melting point	°C	Not applicable.
Freezing point	°C	Not applicable.
Initial boiling point and boiling range	°C	Not applicable.
Flash Point	°C	Not applicable.
Evaporation rate		Not applicable.

Safety Data Sheet

BORREGRO HA-2 POWDER

Flammability (solid, gas)		Not applicable.
Flammability limits		Not applicable.
Explosion limits	vol%	Not known.
Vapour pressure	kPa	Not applicable.
Vapour density		Not applicable.
Relative density		Not applicable.
Partition coefficient n-octanol/water		100% Water.
Auto-ignition temperature	°C	Not known.
Decomposition temperature	> 200 °C	
Viscosity	cSt	Not applicable.
Odour threshold	ppm	Not applicable.

9.2 Other information

Parameter	Value/unit	Remarks
Density	0.37 - 0.56 g/ml (bulk density)	
Combustible Dust Characteristics	No data	

SECTION 10: Stability and reactivity

10.1. Reactivity

Not reactive.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Avoid formation of dust. Avoid spark due to static electricity.

10.5. Incompatible materials

Strong oxidisers.

10.6. Hazardous decomposition products

Typical combustion products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral: No data

Skin corrosion/irritation: No data

Serious eye damage/eye irritation: No data

Safety Data Sheet

BORREGRO HA-2 POWDER

Respiratory sensitisation or skin sensitisation: None known.

Germ cell mutagenicity: Mutagenic properties are not known.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity data are not known for this product.

12.2. Persistence and degradability

No data

12.3. Bioaccumulative potential

No bioaccumulation expected.

12.4. Mobility in soil

Solubility in water: Completely miscible

12.5. Results of PBT and vPvB assessment

None known.

12.6. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of in accordance with Local Authority requirements.

SECTION 14: Transport information

14.1. UN-No.: Not applicable.

14.2. UN proper shipping name: Not applicable.

14.3. Transport hazard class(es): Not applicable.

14.4. Packing group: Not applicable.

14.5. Environmental hazards: Not applicable.

14.6. Special precautions for user

None.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

Not applicable.

Other Information: DOT Class 55 Lignin Pitch - Harmonized Tariff Code for US:3804.00.1000-0

Safety Data Sheet

BORREGRO HA-2 POWDER

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Special Provisions: ADR/RID (2007) ECHA FAQ 7.7. GHS / CLP (EC NO1272/2008) GHS USA June, 2015.

Authorisations / limitations: Global inventory status:

TSCA: All ingredients are on the inventory or exempt from listing.

CERCLA: None of the ingredients are on the inventory.

NFPA ratings

Health hazard: 1

Flammability: 1

Instability: 0

15.2. Chemical Safety Assessment

Other Information: The product does not have to be classified.

SECTION 16: Other information

Vendor notes: Information given in this safety data sheet is in accordance with our information, and to the best of our knowledge, was correct on the last revision date. Information given is intended to present guidelines for safe handling, use, processing, storage, transport, disposal and discharge; it is not intended to be a guarantee or quality specification. It is the responsibility of the recipient of this safety data sheet to ensure that information given here is read and understood by all who use, handle, dispose of or in any way come in contact with the product.

Revision date: 4-15-2016

Document language: US