

SAFETY DATA SHEET (SDS)

PREPARED: October 2025

REVISION: 1.0



SECTION 1: IDENTIFICATION

Product Identifier: CharCore

Alternate Name: Pyroligneous Acid Liquid Plant Growth Enhancer

Recommended Use: Fertilizer Additive, Plant Growth Enhancer

Restrictions on Use: Not for human consumption

Manufacturer:

AgriBio Systems

2335 Fox Ln

Jacksonville, IL 62650

Phone: 217-248-6579

Email: info@agribiosystems.com

Emergency Contact:

24-Hour Emergency: 217-248-6579

National Poison Control Center: 1-800-222-1222

SECTION 2: HAZARD(S) IDENTIFICATION

GHS Classification:

- Skin corrosion/irritation (Category 2)
- Eye Irritation (Category 2B)
- Acute Toxicity, Oral (Category 5)

Label Elements:

Signal Word: Danger

Hazard Pictograms:



Hazard Statements:

- H303: May be harmful if swallowed.
- H316: Causes mild skin irritation.
- H320: Causes eye irritation.

Precautionary Statements:

- P264: Wash hands and exposed skin thoroughly after handling.
- P270: Do not eat, drink or smoke when using this product.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P332+P313: If skin irritation occurs: Get medical advice/attention.
- P337+P313: If eye irritation persists: Get medical advice/attention.

Other Hazards: None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**Chemical Composition:**

Ingredient	CAS Number	% (By Weight)	Note
Pyroligneous Acid	N/A	~90%	
Water	7732-18-5	~10%	

SECTION 4: FIRST-AID MEASURES

Inhalation: Move to fresh air. Seek medical advice if symptoms persist.

Skin Contact: Wash thoroughly with soap and water. If irritation persists, seek medical attention.

Eye Contact: Flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical advice if irritation persists.

Ingestion: Rinse mouth thoroughly with water. Do NOT induce vomiting. Seek medical attention if feeling unwell.

Most Important Symptoms/Effects: Causes skin irritation. May cause eye irritation. May cause gastrointestinal discomfort if ingested.

Immediate Medical Attention/Special Treatment: Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, foam, dry chemical, or carbon dioxide.

Unsuitable Extinguishing Media: None known.

Specific Hazards: May decompose on heating to emit harmful vapors. Fire fighters recommended to wear SCBA.

Special Protective Equipment for Firefighters: Use self-contained breathing apparatus and protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate PPE including safety glasses and gloves to avoid contact with skin and eyes. Avoid generating dust.

Environmental Precautions: Prevent spills from entering waterways, storm drains, or sewers. Report releases to relevant local, state, and federal agencies if required by regulations.

Methods for Containment and Cleanup: Sweep or scoop spilled material into suitable containers for disposal. Avoid dust formation. Clean contaminated area thoroughly. Dispose of materials in accordance with all local, state, and federal regulations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: Use PPE as recommended; avoid dust formation. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

Conditions for Safe Storage: Store in a cool, dry area away from incompatible substances and moisture. Keep container tightly closed when not in use.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

- Sodium Molybdate: ACGIH TLV (as Mo, soluble compounds): 0.5 mg/m³ (8-hour TWA)
- OSHA PEL (as Mo, soluble compounds): 5 mg/m³ (8-hour TWA)

Engineering Controls: Provide adequate ventilation, especially in confined areas. Use local exhaust ventilation when handling to control dust. Emergency eye wash stations should be available in the immediate vicinity.

Personal Protective Equipment (PPE):

- **Eye Protection:** Safety goggles recommended.
- **Skin Protection:** Chemical-resistant gloves recommended.

- **Respiratory Protection:** NIOSH-approved dust mask recommended when dust generation is likely.
- **General Hygiene:** Handle in accordance with good industrial hygiene and safety practices. Do not eat, drink, or smoke when using this product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Transparent to light straw/tea liquid
Odor	Strong smoke odor
Odor Threshold	Not determined
pH	Approximately 2.4 (neat)
Melting/Freezing Point	Not applicable
Boiling Point/Range	Not applicable
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability	Not combustible
Upper/Lower Flammability	Not applicable
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Relative Density	Not determined
Bulk Density	Not determined
Solubility	Miscible with water
Partition Coefficient	Not determined
Auto-ignition Temperature	Not applicable
Decomposition Temperature	Not determined
Viscosity	Not applicable

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Stable under normal conditions.

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: None expected under normal use.

Conditions to Avoid: Excessive heat, open flames, incompatible materials.

Incompatible Materials: Strong acids, strong oxidizers.

Hazardous Decomposition Products: No hazardous decomposition products are known.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Skin contact, eye contact, ingestion, inhalation of dust.

Potential Health Effects:

- **Inhalation:** Mist or vapor may cause respiratory irritation. Avoid breathing vapors or mists.
- **Skin Contact:** May cause mild irritation.
- **Eye Contact:** Irritation expected.
- **Ingestion:** May cause gastrointestinal discomfort.

Acute Toxicity:

- No LD50 data available. Product contains corrosive organic acids that can cause skin and eye irritation.

Skin Corrosion/Irritation: May cause mild skin irritation.

Serious Eye Damage/Irritation: Causes eye irritation.

Respiratory or Skin Sensitization: No data available.

Germ Cell Mutagenicity: No data available.

Carcinogenicity: Not classified as carcinogenic by NTP, IARC, or OSHA.

Reproductive Toxicity: No data available.

STOT - Single Exposure: No data available.

STOT - Repeated Exposure: No data available.

Aspiration Hazard: Not applicable.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Product is derived from natural wood pyrolysis. Expected to have moderate environmental impact. Avoid release to waterways.

Persistence and Degradability: No data available. Expected to be readily biodegradable.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available. Expected to have moderate mobility.

Other Adverse Effects: None known when used as directed.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contents/container in accordance with local, state, and federal regulations. Do not contaminate water, food, or feed by storage or disposal. Do not discharge into drains, water courses, or onto the ground.

SECTION 14: TRANSPORT INFORMATION

Regulation	Information
DOT (US)	Not regulated as dangerous goods
IMDG	Not regulated as dangerous goods
IATA	Not regulated as dangerous goods
UN Number	None
UN Proper Shipping Name	Not regulated
Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	No
Special Precautions for User	None

SECTION 15: REGULATORY INFORMATION

TSCA: All components are listed on the TSCA inventory or exempt.

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Hazard Categories:

- Immediate (Acute) Health Hazard: Yes
- Delayed (Chronic) Health Hazard: No
- Fire Hazard: No
- Reactive Hazard: No
- Sudden Release of Pressure Hazard: No

SARA 313: This product does not contain any chemicals subject to SARA Title III, Section 313 reporting requirements.

Clean Water Act: None of the chemicals in this product are listed as Hazardous Substances, Priority Pollutants, or Toxic Pollutants under the CWA.

Clean Air Act: None of the chemicals in this product are listed as Hazardous Air Pollutants under the CAA.

State Right-to-Know:

- Massachusetts: Sodium Molybdate (CAS 7631-95-0)
- New Jersey: Sodium Molybdate (CAS 7631-95-0)
- Pennsylvania: Sodium Molybdate (CAS 7631-95-0)

California Prop. 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: OTHER INFORMATION

SDS Prepared By: AgriBio Systems

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HMIS Ratings: Health: 2, Flammability: 1, Physical Hazard: 0, Personal Protection: E (Safety glasses, gloves, protective clothing)

NFPA Ratings: Health: 2, Flammability: 1, Instability: 0

Disclaimer: This SDS is prepared based on the best knowledge available and does not constitute a warranty, expressed or implied, regarding the accuracy or completeness of the data. Users are responsible for ensuring the suitability of the product for their specific applications. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

SDS Availability: This SDS and others can be obtained by contacting AgriBio Systems at the phone number or email listed in Section 1.