



SENECA FARMS BIOCHAR LLC

Safety Data Sheet

Section 1: Identification of the substance and of the supplier

1.1. Product identifier

Product name: Wood Vinegar

1.2. Recommended uses of the substance and restrictions on use

Plant foliar spray, plant soil drench, compost additive, pH regulator. Not for human consumption.

1.3. Details of the supplier

Seneca Farms Biochar LLC
4760 Cotton Hanlon Rd
Odessa, NY 14869, USA
+1 607-923-8038

1.4. Emergency telephone number

+1 607-923-8038

Section 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Skin irritation (Category 2)

Eye irritation (Category 2A)

Respiratory tract irritation (Category 3)

Specific target organ toxicity - single exposure (Category 3) Respiratory system H335

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US)



GHS07

Signal word (GHS-US)

Warning

Hazard statements (GHS-US)

H312 - Harmful in contact with skin
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation

Precautionary statements (GHS-US)

P261 - Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray
P280 - Wear eye protection, protective gloves, protective clothing
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

2.3. Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Ingestion May be harmful if swallowed.

Section 3: Composition/information on ingredients

Name	Product identifier	EC number
Pyroligneous acid	(CAS No) 8030-97-5	232-450-0

Pyroligneous acid is produced from the condensed the gases emitted during anaerobic thermal decomposition of biomass.

Section 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

If exposed or concerned, get medical attention/ advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

First-aid measures after inhalation

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen.

First-aid measures after skin contact

IF ON SKIN (or clothing): Remove affected clothing and if irritation develops, wash exposed skin with soap and water. If irritation persists, get medical attention.

First-aid measures after eye contact	IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Continue rinsing and get medical attention if pain, blinking, or irritation develops or persists.
First-aid measures after ingestion	IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Get medical attention if you feel unwell.

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

Symptoms/injuries	Causes serious eye irritation.
Symptoms/injuries after inhalation	May cause respiratory irritation.
Symptoms/injuries after skin contact	May cause skin irritation.
Symptoms/injuries after eye contact	Causes serious eye irritation.

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

None known.

Section 5: Fire-Fighting measures

5.1. Suitable extinguishing media

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water

5.2. Special hazards arising from the substance or mixture

Carbon oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4. Further information

Use water spray to cool unopened containers.

Section 6: Accidental release measures

6.1. Personal precautions

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Vapours can accumulate in low areas.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

Section 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

7.2. Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section 8: Exposure controls / personal protection

8.1. Control parameters

Contains no substances with occupational exposure limit values.

8.2. Exposure controls

Hand protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Eye protection	Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin and body protection	Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Color	Translucent light brown
Odor	Acrid smoky odor

Melting point/freezing point	No data available
Boiling point	99° C
Flash point	> 60.5°C
Auto-ignition temperature	No data available
pH	~ 2.5
Density	1.08 g/mL at 25°C
Solubility	Soluble in water, alcohol and propylene glycol
Ignition temperature	No data available
Auto-ignition temperature	1 hPa at 25 °C (77 °F)
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure	No data available
Relative vapour density	No data available
Evaporation rate	No data available

Section 10: Stability and reactivity

10.1. Chemical stability

Stable under recommended storage conditions.

10.2. Possibility of hazardous reactions

No data available

10.3. Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified as acutely toxic

Acute effects of overexposure

Contact with material may cause irritation of the eyes, skin, and respiratory tract.

Carcinogenicity

Not listed as a carcinogen by NTP, IARC, ACGIH, OSHA or NIOSH.

Mutagenicity

No information available in sources utilized.

Reproductive Toxicity

No information available in sources utilized.

Aspiration hazard

No information available in sources utilized.

Specific target organ toxicity - single exposure

Inhalation - May cause respiratory irritation.

Section 11: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

Section 12: Disposal considerations

13.1. Product

Burn in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

13.2. Contaminated packaging

Recycle to producer, or dispose of as unused product.

Section 13: Transport information

US DOT, ICAO/IATA, IMDG

Proper shipping name: Corrosive liquids, n.o.s. (Devolatilized pyroligneous acid)

Marine pollutant: No

Poison inhalation hazard: No

Class: 8

UN Number: UN3265

Packing Group: III

EMS-No: F-E, S-E

Section 14: Regulatory information

14.1. SARA 302 Components

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

14.2. SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

14.3. SARA 311/312 Hazards

Chronic Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Pyroligneous acids: CAS-No. 8030-97-5

New Jersey Right To Know Components

Pyroligneous acids: CAS-No. 8030-97-5

California Proposition 65 Components

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

Section 15: Other information

Effective date: September 1, 2021

Last updated: October 4, 2021

DISCLAIMER:

The information contained in this SDS is limited to the product's application as specifically described in Section 1. The information contained in this SDS may not be valid if the product is used in combination with other products or materials, or if it is used in any process not specified in this document. The information is accurate to the best of our knowledge, but does not purport to be all inclusive and should only be used as a general guide. It is the user's responsibility to ensure that the product will be suitable for a particular usage. The user assumes all responsibility for compliance with applicable Federal, State, and Local Regulations. We do not accept liability for damage or loss that may occur from this information.