SAFETY DATA SHEET

PyroVantage

Version 2.0.03.24

Date: 05/03/2024

1/ IDENTIFICATION OF SUBSTANCE AND PRODUCER

Product Name: PyroVantage

Synonyms: Pyroligneous Acid.

Description: Plant derived product from pyrolysis of wood.

Chemical Product Category: PC12 – Fertilizers.

Sector of use: SU1 – Agriculture, Forestry, Fishery.

Relevant Identified Use: Agricultural and Horticultural applications.

Producers Details

Company Name: Soil Biology Ltd

Address:Unit 30 Branbridges Ind Estate UK Telephone:

01892 883759

Website: https://www.soilbiology.uk/

Email: info@soilbiology.uk

2/ HAZARDS IDENTIFICATION

Not classified as a hazardous substance.

Precautionary Statements: Avoid breathing vapours, use outdoors or in well-ventilated area.

Wear protective gloves, clothes to cover skin, safety glasses.

Wash hands/exposed skin after use.

3/ COMPOSITION INFORMATION

CAS number	Name	%
8030-97-5	Pyroligneous Acid	≈ 20%
Including,		
64-19-7	Acetic Acid	≈ 7%

4/ FIRST AID MEASURES

Eye Contact: Flush eyes with fresh water for at least 15 minutes.

Skin Contact: Wash contact area with soap and water, remove effected clothing and wash before re-use.

Inhalation: Move to fresh air.

Ingestion: Do NOT induce vomiting. Rinse mouth with fresh water, drink as much water as is comfortable.

If any discomfort or irritation persists, seek medical advice.

5/ FIREFIGHTING MEASURES

Explosion Risk: N/A.

Fire Hazard: Not flammable.

Flash Point: No flash point observed.

Fire Fighting Medium: Use media appropriate for the other combusting material, no special requirements.

When heated or in contact with fire, may produce combustion products typical to burning organic material.

6/ ACCIDENTAL RELEASE MEASURES

Using appropriate PPE, and mechanical handling where appropriate.

Stop the leak if safe to do so.

Depending on environment, either use sawdust or sand to absorb the spill, or,

Dilute with plenty of water.

7/ HANDLING AND STORAGE

Avoid personal contact, including inhalation.

Wear suitable clothing if exposure is likely.

Always wash hands after handling.

Do not eat drink or smoke while handling.

Store in a well-ventilated area, keep separate from food-stuff containers and strong bases.

Keep out of reach of children.

Store in tightly sealed, labelled container and avoid physical damage to the container.

Acidic in nature, store in PE, Stainless Steel or Glass. Attacks rubber, some plastics and steel.

8/ EXPOSURE CONTROLS AND PPE

Contains acetic acid at approximately 7%

Occupational Exposure Limit: Acetic Acid (100%) TWA 10ppm / 25mg/m3

STEL 20ppm / 50mg/m3

Engineering Controls: Adequate ventilation is required to keep below exposure limits.

PPE: Safety glasses, clothes to cover skin, gloves.

9/ PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Amber to red, translucent	Solubility: Soluble in water
Physical State: Liquid	Specific Gravity: 1.05
Odour: Wood smoke	Boiling Point: ≈ 100 ^{o}C
Freezing/melting point: ≈ 0 ^{o}C	Flash Point: N/A
Flammability: Not flammable	VOC g/l: ≈200

10/ STABILITY AND REACTIVITY

Chemical Stability: Product is considered stable under recommended conditions for use and storage.

Incompatible Materials: Strong bases.

11/ TOXICALOGICAL INFORMATION

Acetic Acid: Oral LD50 (rabbit) : 600mg/kg

Inhalation LD50 (mouse) : 1.405mg/L4h

Dermal LD50 (rabbit) : 1060mg/kg

Health Hazard: No adverse health effects are expected if the product is handled in accordance with this SDS and product label.

Can cause irritation to eyes and skin.

12/ ECOLOGICAL INFORMATION

Environment: Safe to use as directed, always use diluted.

Persistence: Low.

Bioaccumulative Potential: Low.

Mobility in Soil: High.

13/ DISPOSAL CONSIDERATIONS

All containers and lids supplied by the producer are MDPE and after flushing with plenty of water can be recycled.

There are no specific requirements for the disposal of Wood Vinegar.

14/ TRANSPORT INFORMATION

Not classified as a dangerous good or hazardous material.

15/ REGULATORY INFORMATION

Wood Vinegar is not classed as a dangerous good.

16/ OTHER INFORMATION

This product should always be used diluted in accordance with the product label. It is advisable to partly fill the receptacle with water before adding wood vinegar, then continue to add water until the required dilution is achieved.

Can be mixed with many other farm chemicals when diluted – always test compatibility and avoid strong bases.

Values given for VOC's are approximate due to Wood Vinegar being a naturally occurring substance with variations in concentration. This product has been homogenised by titration of acetic acid.