# Material Safety Data Sheet

TRADE NAME	Equustock environmental products group micro-sponge
INGREDIENTS	100% High Heat Treated Pine Fiber UHCBS <sup>3</sup> process

NFPA HAZARD LABEL	<u>Health</u>	<u>Flammability</u>	Reactivity	Special Notice
DECONDENCI	1	1	0	None

DESCRIPTION

Rotary or Kiln dried pine particles extruded into cylindrical pellets for use as remediation absorbent material

### PHYSICAL DATA

Boiling Point	Not Applicable
Specific Gravity	1.24
Bulk Density	36lbs cubic foot
Vapor Density	Not Applicable
Percent Volatiles by Volume	Not Applicable
Melting Point	Not Applicable
Vapor Pressure	Not Applicable
Solubility in H <sub>2</sub> 0 (% by weight)	Insoluble. Water will expand and breakdown the pellets into wood particles.
Evaporation Rate (Butyl Acetate = 1)	Not Applicable
pH	Not Applicable
Appearance and Odor	Light colored cylinders 3/16" to 3/8" in
	diameter. Approximately 1/4" to 1" long with some crumbled pellets. Light natural pine scent.

### FIRE AND EXPLOSION DATA

<sup>1</sup>In <u>AFL-CIO v. OSHA</u>965 F. 2d 962 (11th Cir. 1992) the court overturned OSHA's 1989 Air Contaminants Rule, including the specific PELs for wood dust that OSHA had established at that time <u>THE 1989 PELS WERE: TWA – 5.0 mg/m<sup>3</sup>; STEL (15 MIN.) – 10.0 mg/m<sup>3</sup> (ALL SOFT AND HARD WOODS EXCEPT WESTERN RED CEDAR); WESTERN RED CEDAR: TWA – 2.5 mg/m<sub>3</sub>.</u>

Wood dust is now officially regulated as an organic dust under the Particulates Not Otherwise Regulated (PNOR) or Inert or Nuisance Dust categories at PELs noted under Health Effects information section of the MSDS. However, <u>A NUMBER OF STATES HAVE INCORPORATED</u> <u>PROVISIONS OF THE 1989 STANDARD IN THEIR STATE PLANS. ADDITIONALLY, OSHA HAS ANNOUNCED THAT IT MAY CITE COMPANIES</u> <u>UNDER THE OSHA ACT GENERAL DUTY CLAUSE UNDER APPROPRIATE CIRCUMSTANCES FOR NON-COMPLIANCE WITH THE 1989 PELS.</u>

## HEALTH EFFECTS INFORMATION

	Exposure Limit	ACGIH TLV®: TWA-5.0 mg/m³;
		STEL (15 min.) – 10 mg/m <sup>3</sup> (softwood)
	<sup>1</sup> See footnote below concerning	OSHA PEL: TWA – 15.0 mg/m <sup>3</sup> (total dust);
	OSHA PELs for wood dust	5.0 mg/m <sup>3</sup> (respirable fraction)
	Skin and Eye Contact	Wood dust can cause eye irritation. Various
		species of wood dust can elicit allergic
		contact dermatitis in sensitized individuals.
	Ingestion	Do not ingest. Pellets expand in volume
		when wet. No known harmful effects. If
		there is any discomfort, consult a
	Chin Absorption	physician.
	Skin Absorption	Not known to occur
	Chronic Effects	Wood dust, depending on species,
		may cause dermatitis on
		prolonged, repetitive contact; may cause respiratory sensitization
		and/or irritation. IARC classifies
		wood dust as a carcinogen to
		humans (Group 1). This
		classification is based primarily
		on IARC's evaluation of
		increased risk in the occurrence
		of adenocarcinomas of the nasal
		cavities and paranasal sinuses
		associated with exposure
		to wood dust. IARC did not find
		sufficient evidence to associate
		cancers of the oropharynx, hypopharynx,
		lung, lymphatic and hematopoietic
		systems, stomach, colon or
		rectum with exposure to wood
		dust.
RE	ACTIVITY DATA	
	Conditions Contributing to Instability	Stable under normal conditions.
	Incompatibility	Avoid contact with oxidizing agents
		and drying oils. Avoid open flame.
		Product may ignite at temperatures in
		excess of 400° F.
	Hazardous Decomposition Products	Thermal-oxidative degradation of
		wood produces irritating and toxic
		fumes and gases, including carbon
		monoxide, carbon dioxide, terpene
		and polycylic aromatic hydrocarbons.
	Conditions Contributing to Polymerization	Not Applicable

### PRECAUTIONS AND SAFE HANDLING

- Avoid Eye Contact.
- Avoid Repeated or Prolonged Contact with Skin. Careful bathing and clean clothes are indicated after exposure.
- Avoid Prolonged or Repeated Breathing of Wood Dust in Air.
- Avoid Contact with Oxidizing Agents and Drying Oils.
- Avoid Open Flame.
- Do Not Ingest.

### **GENERALLY APPLICABLE CONTROL MEASURES**

Ventilation: Provide adequate general and local exhaust ventilation to maintain healthful working conditions.

Wear goggles or safety glasses. Other protective equipment such as gloves and approved dust respirators may be needed depending upon dust conditions.

### **EMERGENCY AND FIRST AID PROCEDURES**

Eyes	Flush with water to remove dust particles. If irritation
Skin	persists, get medical attention. If a rash or persistent irritation or dermatitis occurs, get medical advice before returning to work where wood dust
Inhalation	is present. Remove to fresh air. If persistent irritation, severe coughing, breathing difficulties occur, get medical advice before returning
Ingestion	to work where wood dust is present. Do not ingest. Wood Pellets will expand when wet. If there is any discomfort, consult a physician.

### SPILL/LEAK CLEAN UP PROCEDURES

Sweep or vacuum spills for recovery or disposal; avoiding creating dust conditions. Provide good ventilation where dust conditions may occur. Place recovered wood dust in a container for disposal. Undegraded wood pellets on the floor present a slip and fall hazard.

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IMPORTANT: The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification. Equustock, LLC makes no warranty of any kind, express or implied, concerning the accuracy or completeness of the information and data herein. Equustock, LLC will not be liable for claims relating to any party's use of or reliance on information and data contained herein regardless of whether it is claimed that the information and data are inaccurate, incomplete or otherwise misleading.

# Material Safety Data Sheet

TRADE NAME	Equustock environmental products group micro-sponge
INGREDIENTS	100% High Heat Treated Pine Fiber UHCBS <sup>3</sup> process "Fine"

NFPA HAZARD LABEL	<u>Health</u>	Flammability	<b>Reactivity</b>	Special Notice
	1	1	0	None
DESCRIPTION				

Rotary or Kiln dried pine particles triple screened for dust control

### PHYSICAL DATA

Boiling Point	Not Applicable
Specific Gravity	1.24
Bulk Density	29lbs cubic foot
Vapor Density	Not Applicable
Percent Volatiles by Volume	Not Applicable
Melting Point	Not Applicable
Vapor Pressure	Not Applicable
Solubility in H <sub>2</sub> 0 (% by weight)	Insoluble. Water will expand and breakdown the pellets into wood particles.
Evaporation Rate (Butyl Acetate = 1)	Not Applicable
pH	Not Applicable
Appearance and Odor	Light colored cylinders 3/16" to 3/8" in
	diameter. Approximately 1/4" to 1" long with some crumbled pellets. Light natural pine scent.

### FIRE AND EXPLOSION DATA

Flash Point	Not Applicable
Auto-ignition Temperature	Variable (typically 400-500°F)
Explosive Limits in Air	40 grams/M <sup>3</sup> (LEL) for wood dust
Extinguishing Media	Water, Sand, Carbon Dioxide, Nitrogen
Special Fire Fighting Procedures	Use water to wet down dust to reduce likelihood of ignition or dispersion of dust into the air. Remove burned or wet dust to open
Unusual Fire and Explosion Hazard	area after fire is extinguished. Use inert gases to smother fire in enclosed spaces. Wood dust is a strong to severe explosion hazard if a dust "cloud" contacts an ignition source. Wood heated with limited oxygen will produce CO, CO <sub>2</sub> and hydrocarbons which can explode if oxygen is introduced.

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