

1. Product Identification

Product name	System Three Wood Flour – All Species – All Grades (Maple, Pine, Oak, Spruce, Cedar)
Synonyms	Wood Flour, Wood Dust
SDS Number	3110S
Product type	Wood dust – particle generated by any manual or mechanical cutting or abrasion process performed on wood.
Recommended use of the chemical and restrictions on use	Filler
Restrictions	None known.
Manufacturer/Supplier information	
Company name	SYSTEM THREE RESINS, INC.
Address	8517 Commerce Place Dr NE Lacey, WA 98516 United States
Telephone	1-253-333-8118
Website	www.systemthree.com
Email	support@systemthree.com
Emergency Contact	CHEMTEL (U.S. and CANADA) 1-800-704-9215 CHEMTEL (Outside the U.S.) – Call Collect accepted +1-360-256-7365

2. Hazard(s) Identification

Classification of substance or mixture/Signal Word	WARNING Acute Toxicity (Inhalation) – Category 5 Skin Corrosion/Irritation – Category 2 Eye Damage/Irritation – Category 2B Carcinogenicity - 2
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GHS Label Elements
Hazard Pictograms



Hazard Statements/Classification of substance or mixture	H315 Causes skin irritation. H320 Causes eye irritation. H333 May be harmful if inhaled. H351 Suspected of causing Cancer of the Nasel Cavities and Para Nasel Sinuses.
Precautionary statements	
<u>Precautionary Statements</u> Prevention	P261 Avoid breathing dust. P264 Wash hands and face thoroughly after handling. P280 Wear protective clothing and eye protection.

Response	P304 + P312 If Inhaled: call a poison center or doctor if you feel unwell. P302+352+363 IF ON SKIN: Wash with soap and water. Take off contaminated clothing and wash before reuse. P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P308+P313 If exposed or concerned: Get medical advise/attention. P332+P313 If skin irritation occurs: Get medical advise/attention.
Storage	Not applicable.
Disposal	Not applicable.
Hazards not otherwise classified (HNOC)	None known.

3. Composition/Information On Ingredients

Chemical Name	CAS Number	Content (%)
Cellulose	9004-34-6	100%

Balance of other ingredients is less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).

4. First-Aid Measures

Skin contact	Wash with soap and water. Remove exposed or contaminated clothing, taking care not to contaminate eyes. If signs/symptoms develop, get medical attention.
Eye contact	Flush with large amounts of water. Use efficient force to open eyelids. Remove contact lenses if easy to do. Have contaminated individual "roll" eyes. Minimum flushing is for 15 minutes. If signs/symptoms persist, get medical attention.
Ingestion	Not expected to be applicable for this product.
Inhalation	If dusts generated by this product are inhaled, remove contaminated individual to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention if breathing difficulties continue.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	Individuals with preexisting skin and respiratory conditions may be more susceptible to effects of this material.
Specific treatments	Treat symptoms and eliminate overexposure.

5. Fire-Fighting Measures

Suitable extinguishing media	Water spray, carbon dioxide, Halon, dry chemical, foam.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	Depending on the moisture content and particulate diameter, wood dust may explode in the presence of an ignition source. An airborne concentration of 40 grams of dust per cubic meter of air is often used as the LEL for wood dusts. Explosion Sensitivity to Mechanical Impact: NO Explosion Sensitivity to Static Discharge: In the form of dust, this material is sensitive to static discharge and may form explosive mixtures in air.
Hazardous decomposition products	None.
Special protective actions for fire-fighters	Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

Special protective equipment for fire-fighters
Further information

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment.
Not applicable.

6. Accidental Release Measures

Personal precautions

Evacuate area. Ventilate the area with fresh air. Observe precautions from other sections.

Emergency procedures
Methods and materials for containment/cleanup

None known.
Maintain adequate ventilation and remove any potential ignition sources. Sweep or vacuum spills for recovery or disposal; avoiding creating dusty conditions (i.e. dust 'cloud'). Provide good ventilation where dusty conditions may occur. Place recovered wood dust in a container for disposal. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

Environmental precautions

Avoid release to the environment.

7. Handling and Storage

Precautions for safe handling

Wash hands and face thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing dusts generated by this product. Use in a well-ventilated location.

Precautions/Recommendations for safe/proper storage

Avoid contact with drying oils or moisture causing biological activity, as spontaneous combustion under certain conditions may be possible. Avoid open flame. Store in a dry, cool, clean and ventilated area to avoid heat and humidity. Wood flour is extremely combustible and explosive when airborne. Wood flour or wood dust has a strong to severe explosion hazard if a dust "cloud" contains an ignition source. Refer to NFPA 664 & NFPA 68 for additional safety handling requirements.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Components	CAS No.	Agency	Limit Type	Additional Comments
Cellulose	9004-34-6	OSHA	TWA concentration: TWA: 15mg/Cubic Meter (Total Dust)	
		ACGIH TLV	5.0mg/Cubic Meter	

Appropriate engineering controls

Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above. Use local exhaust ventilation and process enclosure if necessary, to control airborne dust.

Environmental exposure controls

Not available.

Individual protection measures/Personal protective equipment

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended: Safety glasses with side shields.

Hand protection

Use gloves when handling this product to reduce skin contact as appropriate.

Skin protection

Use body protection appropriate for the task (e.g. lab coat, overalls).

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure. Half facepiece or full facepiece air-purifying respirator suitable for particulates.

For questions about suitability for a specific application, consult with your respirator manufacturer.

Special instructions for protection and hygiene

Not available.

9. Physical and Chemical Properties

Chemical family	Wood dust
Appearance	Light to dark colored granular solid
Physical State	
Form	Solid
Color	Varies depending on wood species
Odor	Odor depends on wood species
Density (Specific Gravity)	Not applicable
Viscosity	Not Applicable
pH	Not Applicable
Melting point/freezing point	No Data Available
Initial boiling point and boiling range	329 degrees Fahrenheit (165 degrees Centigrade)
Flash point	Not Applicable
Evaporation rate	Not Applicable
Flammability (solid, gas)	Combustible solid
Upper/lower flammability limit (by volume)	Not Applicable
Material VOC	Not Applicable
Vapor density	Not Applicable
Relative density	Not Applicable
Solubility in water	Insoluble
Partition coefficient: n-octanol/water	Not Applicable
Auto-ignition temperature	As low as 212 degrees Fahrenheit
Decomposition temperature	500 – 518 degrees Fahrenheit

10. Stability and Reactivity

Reactivity	Wood Flour/Wood Dust: None reported. Cellulose: Water, Bromine Pentafluoride, Sodium Nitrate, Fluorine, Strong Oxidizers.
Chemical Stability	Stable under conditions of normal use and storage.
Possibility of hazardous reactions	Will not occur.
Conditions to avoid	Incompatible materials, ignition sources.

Incompatible materials

Avoid contact with oxidizing agents and drying oils. Avoid open flame. Product may ignite at temperatures in excess of 212 degrees Fahrenheit.

Hazardous decomposition products

Thermal-oxidative degeneration of wood produces irritating and toxic fumes and gases, including CO, aldehydes and organic acids.

Other hazards

None known.

11. Toxicological Information

Acute Health Hazard (components)

The following information is for the ingredient Cellulose. No formal data exists for Wood Flour or Wood Dust.

Component	Result	Species	Dose	Exposure
Cellulose	Inhalation	Rat	Lethal Concentration (50% Kill): >5,800mg/cubic meter / 4 Hour	-
	Intraperitoneal	Rat	Lethal Dose (50% Kill): >31,600mg/kg	-
	Oral	Rat	Lethal Dose (50% Kill): >5gm/kg	-
	Dermal	Rabbit	Lethal Dose (50% Kill): >2gm/kg	-

Irritation/Corrosion (components)

Data not available.

Sensitization

Not classified.

Mutagenicity

Data not available.

Carcinogenicity

Data not available.

Reproductive Toxicity

Data not available.

Teratogenicity

Data not available.

Specific target organ toxicity (single exposure)

Data not available.

Specific target organ toxicity (repeated exposure)

Data not available.

Aspiration hazard

Data not available.

Potential acute health effects**Eye Contact**

Contact may cause irritation and discomfort.

Inhalation

High concentrations are irritating to the respiratory tract; may cause headache, dizziness, nausea, vomiting and malaise.

Skin Contact

Contact may cause irritation. Various species of wood dust can cause allergic contact dermatitis in sensitized individuals.

Ingestion

Not a normal route of entry for this material.

Symptoms related to the physical, chemical and toxicological characteristics**Eye Contact**

No data available.

Inhalation

No data available.

Skin Contact

No data available.

Ingestion

No data available.

Delayed and immediate effects and also chronic effects from short and long term exposure

No data available.

Potential chronic health effects

General

Wood dust, depending on species, may cause dermatitis on prolonged, repetitive contact; may cause respiratory sensitization and/or irritation.

Carcinogenicity

IARC classifies wood dust as a carcinogen to humans (Group I). This classification is based primarily on IARC's evaluation of increased risk in the occurrence of denocarcinomas of the nasal cavities and para nasal 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.

Mutagenicity

No data available.

Teratogenicity

No data available.

Developmental effects

No data available.

Fertility effects

No data available.

Numerical measures of toxicity

Acute toxicity estimates (ATEmix)

No data available.

12. Ecological Information

Ecotoxicity

No data available.

Persistence and degradability

No data available.

Bioaccumulative Potential

No data available.

Mobility in Soil

No data available.

Soil/water partition coefficient (KOC)

No data available.

Other adverse effects

No data available.

13. Disposal Considerations

Waste from residues/ unused products

Dispose of contents/container in accordance with the local/regional/national/international regulations. Prior to disposal, consult all applicable authorities and regulations to insure proper classification. Dispose of waste product in a permitted industrial waste facility.

14. Transport Information

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

International Transport Regulations

Regulatory information	UN/NA number	Proper Shipping Name	Classes/*PG	Additional Information
DOT		Not regulated		
TDG		Not regulated		
IMO/IMDG		Not regulated		
IATA		Not regulated		

*PG: Packing group

Special precautions for user:

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

15. Regulatory Information

UNITED STATES

U.S. Federal Regulations

United States – TSCA 12(b) – Chemical export notification: None Required.
United States – TSCA 5(a)2 – Final significant new use rules: Not Listed.
United States – TSCA 5(a)2 – Proposed significant new use rules: Not Listed.
United States – TSCA 5(e) – Substance consent order: Not listed.

Clean Air Act – Ozone Depleting Substances (ODS)

None.

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)

None.

California Prop. 65

WARNING: In December 2009, "Wood Dust" was added to California's Proposition 65 list of substances "known to the state of California to cause cancer."

EPA SARA 302 Extremely Hazardous Substances

Not available.

EPA SARA 302/304/311/312 Hazardous Chemicals

Not available.

SARA 313

Not available.

Form R – Reporting requirements

CERCLA Hazardous substances

Not available.

CANADA

Not available.

INTERNATIONAL REGULATIONS

Asia-PAC: All components are listed or exempted.
Australia inventory (AICS): All components are listed or exempted.
Korea inventory: All components are listed or exempted.
Japan inventory: All components are listed or exempted.
Philippines inventory (PICCS): All components are listed or exempted.

16. Other Information, Including Date of Preparation or Last Revision

HMIS Rating

Health 1
Flammability 0
Physical Hazard 0

Date of Preparation

May 5, 2020

Date of Last Revision

Revision #

1.0

More Information

1-253-333-8118

Prepared by

System Three Resins Inc.

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