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

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 Nasal Cavities and Para Nasal Sinuses.

Precautionary statements
Precautionary Statements
Prevention  P261  Avoid breathing dust.
P264  Wash hands and face thoroughly after handling.
P280  Wear protective clothing and eye protection.
3. Composition/Information On Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Content (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cellulose</td>
<td>9004-34-6</td>
<td>100%</td>
</tr>
</tbody>
</table>

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 firefighters

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment.

Further information

Not applicable.

6. Accidental Release Measures

Personal precautions

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

Emergency procedures

None known.

Methods and materials for containment/cleanup

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.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS No.</th>
<th>Agency</th>
<th>Limit Type</th>
<th>Additional Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cellulose</td>
<td>9004-34-6</td>
<td>OSHA</td>
<td>TWA concentration: TWA: 15mg/Cubic Meter (Total Dust)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ACGIH TLV 5.0mg/Cubic Meter</td>
<td></td>
</tr>
</tbody>
</table>

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

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

10. Stability and Reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Stability</td>
<td>Stable under conditions of normal use and storage.</td>
</tr>
<tr>
<td>Possibility of hazardous reactions</td>
<td>Will not occur.</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>Incompatible materials, ignition sources.</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Component</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cellulose</td>
<td>Inhalation</td>
<td>Rat</td>
<td>Lethal Concentration (50% Kill): &gt;5,800mg/cubic meter / 4 Hour</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Intraperitoneal</td>
<td>Rat</td>
<td>Lethal Dose (50% Kill): &gt;31,600mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Oral</td>
<td>Rat</td>
<td>Lethal Dose (50% Kill): &gt;5gm/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Dermal</td>
<td>Rabbit</td>
<td>Lethal Dose (50% Kill): &gt;2gm/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

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

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. No data available.

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.

<table>
<thead>
<tr>
<th>International Transport Regulations</th>
<th>UN/NA number</th>
<th>Proper Shipping Name</th>
<th>Classes/*PG</th>
<th>Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td></td>
<td>Not regulated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TDG</td>
<td></td>
<td>Not regulated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td></td>
<td>Not regulated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IATA</td>
<td></td>
<td>Not regulated</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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 Not available.
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.

The information contained herein is based on the data available to us and is believed to be correct. However, System Three Resins, Inc. makes no warranty, expressed or implied, regarding the accuracy of these data or the results to be obtained from the use thereof. System Three assumes no responsibility for injury from the use of the product described herein.