

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name	WOOD AND WOOD PRODUCTS
Product use	Building Materials - Structural, Industrial or Decorative
Chemical description	Solid wood, such as lumber and wood products, such as softwood plywood, hardboard, oriented strand board and engineered wood products bonded with resin (phenol, phenol resorcinol, melamine formaldehyde-based, or polyvinyl acetate).
Product list	See Product List found in Section 16
Synonym(s)	Softwood Plywood * Oriented Strand Board (OSB) * Hardboard (Standard, Tempered, Perforated, Paneling) * Lumber Products * Engineered Lumber (LVL, Wood-I-Joists, Rimboard)
Manufacturer information	Georgia-Pacific Wood Products LLC 133 Peachtree Street, NE Atlanta, GA 3030 MSDS Request 404.652.5119 Technical Information 800.284.5347 Chemtrec - Emergency 800.424.9300

2. Hazards Identification

Emergency overview	Sawing, sanding or machining wood or wood products can generate dust. Wood dust may ignite or form explosive mixture with air in the presence of an ignition source. Product dust may be irritating to eyes, skin or respiratory system.
Potential health effects	
Eyes	Dust or splinters may cause irritation or injury to the eyes.
Skin	Contact with skin may cause irritation.
Inhalation	Dusts of this product may cause irritation to the nose, throat, or respiratory tract.
Ingestion	Due to material form and application, ingestion is considered unlikely. May result in irritation of the digestive tract.
Target organs	Eyes, skin, gastrointestinal tract, and respiratory system

3. Composition / Information on Ingredients

Components	CAS #	Percent
WOOD/WOOD DUST	Not Assigned	60 - 100
Composition comments	Some lumber products may be sprayed with sap stain control coatings. The lumber is air or kiln dried. No chemical residue is left on the surface of the board. Wood products are bonded with phenol, phenol resorcinol, melamine formaldehyde-based, or polyvinyl acetate resin. Some wood products may be coated with finishes, sealants and or overlays.	

4. First Aid Measures

First aid procedures	
Eye contact	In case of contact, immediately flush eyes with large amounts of water, continuing to flush for 15 minutes. Do not rub the eyes. Get medical attention immediately.
Skin contact	If irritation develops, wash with soap and water. Get medical attention if irritation persists.
Inhalation	Remove from area of exposure. If the affected person is not breathing, apply artificial respiration. If persistent irritation, severe coughing or breathing difficulty occurs, seek medical attention.
Ingestion	If wood or wood dust is swallowed, get immediate medical attention or advice -- Do not induce vomiting.

5. Fire Fighting Measures

Extinguishing media	
Suitable extinguishing media	Use methods for the surrounding fire.

Fire fighting equipment/instructions	Firefighters should wear full protective clothing including self contained breathing apparatus. Partially burned dust is especially hazardous if dispersed into the air. Wet down to reduce likelihood of ignition or dispersion. Remove burned or wet dust to open, secure area after fire is extinguished.
Explosion data	
Sensitivity to static discharge	Not available
Sensitivity to mechanical impact	Not available
Hazardous combustion products	Hazardous decomposition products may include irritating fumes or gases including carbon monoxide, aldehydes or organic acids.

6. Accidental Release Measures

Personal precautions	Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Avoid inhalation of dust during clean up.
Methods for cleaning up	Vacuum or wet sweep small wood pieces and dust; place in appropriate container for disposal. Gather larger pieces by an appropriate method. Reduce airborne dust by use of wet methods and prevent scattering by moistening with water.

7. Handling and Storage

Handling	Dust can form an explosive mixture in air. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. Use personal protective equipment as required. Avoid frequent or prolonged inhalation of wood dust. Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling. Keep away from heat and sources of ignition. Keep formation of airborne dusts to a minimum.
Storage	Store flat, supported and protected from direct contact with the ground. Keep in a well-ventilated place away from incompatible materials. Store in a cool dry place.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
WOOD/WOOD DUST (Not Assigned)	TWA	0.5 mg/m3	Inhalable fraction.
		1 mg/m3	(Inhalable)

U.S. - OSHA

Components	Type	Value	Form
WOOD/WOOD DUST (Not Assigned)	STEL	10 mg/m3	(Vacated)
	TWA	5 mg/m3	(Total dust) (Vacated)

Exposure guidelines	Georgia-Pacific Wood Products LLC voluntarily elects to adhere to exposure limits contained in OSHA's 1989 Air Contaminants Standard although certain limits were vacated in 1992. The present OSHA exposure limits governing wood dust is 15 mg/m3 (Total Dust) and 5 mg/m3 (Respirable Fraction).
Engineering controls	Due to the explosive potential of dust when suspended in air, precautions should be taken when sawing, sanding, or machining wood or wood products to prevent sparks or other ignition sources in ventilation equipment. Local exhaust ventilation is recommended when sawing, sanding, or machining this product. General dilution ventilation is recommended in processing and storage areas. Use wet methods, if appropriate, to reduce generation of dust.
Personal protective equipment	
Eye / face protection	Safety glasses or goggles are recommended when using this product. Ensure compliance with OSHA's PPE standard (29 CFR 1910.132 and .133) for eye and face protection.
Skin protection	Impervious protective clothing and gloves recommended to prevent drying or irritation of skin. Ensure compliance with OSHA's PPE standards (29 CFR 1910.132 (general) and 138 (hand protection)). Safety shower/eye wash fountain is recommended in the workplace area (29 CFR 1910.151 (c)).
Respiratory protection	A NIOSH approved dust mask or filtering facepiece is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).

9. Physical & Chemical Properties

Appearance	Rigid boards or panels
Color	Various
Form	Solid wood
Odor	Resinous wood
Odor threshold	Not available
pH	Not applicable
Freezing point	Not available
Boiling point	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability	Combustible
Flammability limits in air, upper, % by volume	Not available
Flammability limits in air, lower, % by volume	>= 40 g/m3 for wood dust
Vapor pressure	Not applicable
Vapor density	Not applicable
Specific gravity	Variable
Partition coefficient (n-octanol/water)	Not applicable
Solubility (water)	Insoluble
Auto-ignition temperature	399.2 - 500 °F (204.4 - 260 °C) for wood

10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Conditions of reactivity	None known.
Incompatible materials	Strong acids, alkalis, oxidizing agents and drying oils.
Hazardous decomposition products	Thermal decomposition may emit irritating fumes or gases of carbon monoxide, carbon dioxide, aldehydes, or organic acids.
Possibility of hazardous reactions	Will not occur.

11. Toxicological Information

Toxicological information	No toxicological data available for this product. Toxicological information for components of this product is listed below. Repeated inhalation of dust from this product may result in respiratory irritation. WOOD DUST. Wood dust may cause dryness, irritation, coughing or sinusitis. IARC and NTP classify wood dust as a carcinogen. This classification is based on the increased occurrence of adenocarcinomas of the nasal cavities and paranasal sinuses associated with exposure to wood dust. The evaluation noted insufficient evidence to associate cancer of the oropharynx, hypopharynx, lung, lymphatic and hematopoietic systems, stomach, colon or rectum with exposure to wood dust. WOOD DUST. Wood dust may cause dryness, irritation, coughing or sinusitis. IARC and NTP classify wood dust as a carcinogen due to cancers of the upper respiratory system.	
Routes of exposure	Not available.	
Sensitization	Not applicable for softwoods.	
ACGIH Sensitizer	WOOD/WOOD DUST (CAS Not Assigned)	US ACGIH Threshold Limit Values: Sensitiser
Carcinogenicity		
ACGIH Carcinogens	WOOD/WOOD DUST (CAS Not Assigned)	US ACGIH Threshold Limit Values: A1 carcinogen US ACGIH Threshold Limit Values: A2 carcinogen
IARC Monographs Overall Evaluation of Carcinogenicity	WOOD/WOOD DUST (CAS Not Assigned)	1 Volume 62, Volume 100C

US NTP Report on Carcinogens: Known carcinogen

WOOD/WOOD DUST (CAS Not Assigned)

US NTP Report on Carcinogens: Known carcinogen

Mutagenicity	Not available.
Reproductive effects	Not available.
Teratogenicity	Not available.
Synergistic materials	Not applicable.

12. Ecological Information

Ecotoxicity	Not available.
Environmental effects	Not available.

13. Disposal Considerations

Disposal instructions	Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose of material according to Local, State, Federal, and Provincial Environmental Regulations.
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14. Transport Information**DOT**

Not regulated as dangerous goods.

TDG

Not regulated as dangerous goods.

15. Regulatory Information**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No
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Section 302 extremely hazardous substance	No
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Section 311 hazardous chemical	Yes
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Section 313 hazardous chemical	No
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US federal regulations	Wood and wood products are considered manufactured articles and are exempt under OSHA's Hazard Communication Standard 29 CFR 1910.1200. Wood dust, a by-product generated from sawing, sanding or machining wood and wood products, is considered hazardous and is regulated under the Hazard Communication Standard 29 CFR 1910.1200.
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California Proposition 65. WARNING: This product contains chemicals known to the state of California to cause cancer. Drilling, sawing, sanding or machining wood products generates wood dust and titanium dioxide particles, both chemicals are known to the state of California to cause cancer. Avoid inhaling such dust and particles; use a dust mask or other safeguards for personal protection.

WHMIS status	Exempt
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Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information**Product list**

Engineered Lumber Wood I Beam™ Joists and Broadspan™ I-Joists, GP Lam® LVL and Broadspan™ LVL, Fiberstrong® Rim Board

Product list

Lumber Sta-Strait™ Finger-Jointed Southern Yellow Pine Lumber, Solid Sawn Wood

Plywood Plytanium® Plywood, Plytanium® DryPly® Plywood, Sanded Pine Plywood, Cargo Panel Plywood, Plywood Sturd-I-Floor®, Plywood Rated Sheathing, Plywood Exterior Siding, Ply-Bead® Panels, Sanded Plywood Project Panels, PlyFrame® Panels, Plywood Underlayment, CDX Plywood; Plyform, T1-11 Textured Plywood Siding, Craftsman® Primer/Sealer Plywood Siding, Craftsman® Sanded Plywood

Oriented Strand Board (OSB) Oriented Strand Board (OSB), OSB Sturd-I-Floor®, OSB Rated Sheathing, Home Advantage® OSB Sturd-I-Floor®, DryGuard® OSB Sturd-I-Floor, Nautilus™ Wall Sheathing, Thermostat® OSB Radiant Barrier Roof Sheathing

Engineered Boards Hardboard, Hushboard® Sound Deadening Board, Coreboard, Uncoated Container Pack, Table Pad Substrate, Jubilee® RTP and White Ice Beadboard Paneling, Lionite® Tileboard Paneling, SuperWood® Industrial Panels, Mark-R Board, Chalk Board, Clutter Cutter™ Panels, UltraStrate® Industrial Panels

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HMIS® ratings

Health: 1*
Flammability: 1
Physical hazard: 0

NFPA ratings

Health: 2
Flammability: 1
Instability: 0

Other information

WOOD PRODUCTS

CAUTION!

SAWING, SANDING OR MACHINING WOOD PRODUCTS CAN PRODUCE WOOD DUST, WHICH CAN CAUSE A FLAMMABLE OR EXPLOSIVE HAZARD.

WOOD DUST MAY CAUSE LUNG, UPPER RESPIRATORY TRACT, EYE OR SKIN IRRITATION. SOME WOOD SPECIES MAY CAUSE DERMATITIS AND/OR RESPIRATORY ALLERGIC EFFECTS. EXPOSURE TO WOOD DUST MAY CAUSE CANCER.

PRECAUTIONS

Avoid dust contact with ignition source. Avoid frequent or prolonged inhalation of wood dust. Protect eyes from flying particles. Avoid dust contact with skin and wash exposed areas.

FIRST AID

If inhaled, remove to fresh air. In case of contact, flush eyes and skin with water. If irritation persists, call a physician.

HANDLING AND STORAGE

Avoid frequent or prolonged inhalation of wood dust. Protect eyes from flying particles. Avoid contact with skin and wash exposed areas thoroughly. Change protective clothing and gloves when signs of contamination appear.

Wood products are combustible and, therefore, should not be subjected to temperatures exceeding the autoignition temperature. Wet down wood dust generated by sawing, sanding, or machining to reduce the likelihood of ignition or dispersion of dust into the air.

For additional information, see the Georgia-Pacific Wood Products LLC Material Safety Data Sheet for this product.

Product Safety and Health Information
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Disclaimer

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. Buyer assumes all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations. Georgia-Pacific and its subsidiaries make no warranty of any kind, expressed or implied, concerning the accuracy or completeness of the information and data herein. The implied warranties of merchantability and fitness for a particular purpose are specifically excluded. Georgia-Pacific and its subsidiaries 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.

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Prepared by

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404.652.5119