

1. Product and Company Identification

Material name	WOOD PRODUCTS (UF BONDED)
Product use	Building Materials - Decorative
Chemical description	Medium Density Fiberboard (MDF) and hardboard paneling bonded with urea-formaldehyde resin.
Product list	See Product List found in Section 16
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. Wood dust and/or formaldehyde may be irritating to eyes, skin and/or respiratory system.
Potential health effects	
Eyes	Contact with eyes may cause irritation and/or injury.
Skin	Contact with skin may cause irritation.
Inhalation	Dust and formaldehyde vapors may cause respiratory tract irritation.
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
FORMALDEHYDE	50-00-0	0 - 0.1

Composition comments Some lumber products may be sprayed with sap stain control coatings.

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 formation of airborne dusts to a minimum. Keep away from heat and sources of ignition.

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
FORMALDEHYDE (50-00-0)	Ceiling	0.3 ppm	
WOOD/WOOD DUST (Not Assigned)	TWA	0.5 mg/m ³	Inhalable fraction.
		1 mg/m ³	(Inhalable)

U.S. - OSHA

Components	Type	Value	Form
FORMALDEHYDE (50-00-0)	STEL	2 ppm	(29 CFR 1910.1048)
	TWA	0.75 ppm	
WOOD/WOOD DUST (Not Assigned)	STEL	10 mg/m ³	(Vacated)
	TWA	5 mg/m ³	(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 board
Color	Various
Form	Solid wood
Odor	Resinous wood
Odor threshold	Not available
pH	Not applicable
Freezing point	Not applicable
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/cm ³ 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. 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. FORMALDEHYDE. Exposure to formaldehyde may cause temporary irritation to the nose and throat and may lead to respiratory disorders. Pre-existing respiratory disorders may also be aggravated by exposure. Studies have reported that persons with asthma responded no differently than healthy individuals at concentrations as high as 3 ppm. IARC and NTP classify formaldehyde as a carcinogen due to cancers of the upper respiratory system and leukemia. OSHA regulates formaldehyde as a potential carcinogen for exposures at or exceeding 0.5 ppm.
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Toxicological information (Ingredients)

FORMALDEHYDE (CAS # 50-00-0)

Toxicology Data - Selected LD50s and LC50s

Inhalation LC50 Rat: 0.48 mg/l/4h
Oral LD50 Rat: 100 mg/kg

Routes of exposure Skin contact. Eye contact. Inhalation.

Sensitization

ACGIH Sensitizer

FORMALDEHYDE (CAS 50-00-0)

US ACGIH Threshold Limit Values: Sensitizer

	WOOD/WOOD DUST (CAS Not Assigned)	US ACGIH Threshold Limit Values: Sensitiser
Chronic effects	Hazardous by OSHA/WHMIS criteria.	
Carcinogenicity	Hazardous by OSHA/WHMIS criteria.	
ACGIH Carcinogens		
	FORMALDEHYDE (CAS 50-00-0)	US ACGIH Threshold Limit Values: A2 carcinogen
	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		
	FORMALDEHYDE (CAS 50-00-0)	1 Volume 88, Volume 100F
	WOOD/WOOD DUST (CAS Not Assigned)	1 Volume 62, Volume 100C
US NTP Report on Carcinogens: Anticipated carcinogen		
	FORMALDEHYDE (CAS 50-00-0)	US NTP Report on Carcinogens: Anticipated carcinogen
US NTP Report on Carcinogens: Known carcinogen		
	WOOD/WOOD DUST (CAS Not Assigned)	US NTP Report on Carcinogens: Known carcinogen
US OSHA Specifically Regulated Substances: Potential cancer hazard		
	FORMALDEHYDE (CAS 50-00-0)	US OSHA Specifically Regulated Substances: Potential cancer hazard
US OSHA Specifically Regulated Substances: Reference		
	FORMALDEHYDE (CAS 50-00-0)	29 CFR 1910.1048
Mutagenicity	Not expected to be hazardous by OSHA/WHMIS criteria.	
Reproductive effects	Not expected to be hazardous by OSHA/WHMIS criteria.	
Teratogenicity	Not expected to be hazardous by OSHA/WHMIS criteria.	
Synergistic materials	Not available.	

12. Ecological Information

Components	Test Results
FORMALDEHYDE (50-00-0)	EC50 Daphnia: 2 mg/L 48.00 Hours LC50 Fish: 24.1 mg/L 96.00 Hours

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.

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
Section 302 extremely hazardous substance	No
Section 311 hazardous chemical	Yes
Section 313 hazardous chemical	Yes

US federal regulations

OSHA. Wood products are not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. However, formaldehyde emissions and wood dust generated from sawing, sanding or machining wood and wood products is considered hazardous and is regulated under the Hazardous Communication Standard 29 CFR 1910.1200.

HUD. The Department of Housing and Urban Development (HUD) regulation 24 CFR 3280 provides for third-party certification of particleboard and hardwood plywood manufactured with urea-formaldehyde resin for formaldehyde emissions. In all cases, certification is made in accordance with ASTM E1333-96, Large Scale Test Method for Determining Formaldehyde Emissions from Wood Products. Georgia Pacific Wood Products, LLC does not manufacture particleboard or hardwood plywood bonded with urea formaldehyde. Urea formaldehyde bonded thin MDF paneling manufactured by Georgia Pacific Wood Products, LLC is not covered in the HUD regulation 24 CFR 3280. It meets the formaldehyde emission requirements of ANSI A208.2-2002, Medium Density Fiberboard (MDF) for Interior Applications, with a voluntary certification level of 0.2 ppm at a loading rate of 0.08 square foot/cubic foot and is voluntarily certified to meet the HUD particleboard emission limit of 0.3 ppm at a loading rate of 0.13 square feet/cubic foot.

California Proposition 65. WARNING: This product contains chemicals, including formaldehyde, known to the state of California to cause cancer. Additionally, 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.

California Air Resources Board (CARB). The CARB Air Toxic Control Measures regulation CCR 93120.2(a) provides for third-party certification and compliance with requirements to reduce allowable formaldehyde emissions from composite wood products. Phase 1 regulations require an emission standard of 0.21 ppm for Medium Density Fiberboard (MDF) and thin MDF. Georgia-Pacific medium density fiberboard products are certified to, and comply with, CARB Phase 1 formaldehyde emission levels.

US CERCLA Hazardous Substances: Reportable quantity

FORMALDEHYDE (CAS 50-00-0) 100 LBS

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

FORMALDEHYDE (CAS 50-00-0) 0.1 %

Canadian regulations

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

Canada WHMIS Ingredient Disclosure: Threshold limits

FORMALDEHYDE (CAS 50-00-0) 0.1 %

WHMIS status

Exempt

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

Medium Density Fiberboard (MDF) Paneling - Mount Vernon®, StyleLine®

Engineered Boards - Jubilee® RTP Beadboard Paneling, Clutter Cutter™ Panels; InfiniCor® Industrial Panels

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HMIS® ratings

Health: 1*
Flammability: 1
Physical hazard: 0

NFPA ratings

Health: 1
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

Georgia-Pacific LLC
P. O. Box 105605
Atlanta, GA 30348-5605

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

Georgia-Pacific LLC
404.652.5119