MATERIAL SAFETY DATA SHEET



1. Product and Company Identification

Material name WOOD PRODUCTS (UF BONDED)

Product use Building Materials - Decorative

Product List See Product List found in Section 16

Chemical description Medium Density Fiberboard (MDF) and hardboard paneling bonded with urea-formaldehyde

resin.

Manufacturer information Georgia-Pacific Wood Products LLC

133 Peachtree Street, NE Atlanta, GA 30303

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. Wood dust and/or formaldehyde may be irritating to

eyes, skin and/or respiratory system.

Target organs

Eyes, skin and 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.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Wood/Wood Dust	Not Assigned	60 - 100
Formaldehyde	50-00-0	<0.1

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, get medical

attention.

Ingestion If wood or wood dust is swallowed, get immediate medical attention or advice -- Do not induce

vomiting.

5. Fire Fighting Measures

General fire hazards Wood is combustible when exposed to heat or flame. Wood dusts may form explosive

mixtures with air in the presence of an ignition source. An airborne dust concentration of 40 g/m3 of air is often used as the lower explosion limit (LEL) for wood dust. Avoid breathing dust

or decomposition products.

Extinguishing media

Suitable extinguishing

media

Use methods for the surrounding fire.

Material name: WOOD PRODUCTS (UF BONDED)

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Protection of firefighters

Protective equipment and precautions for firefighters

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 precautionsWear 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 pieces and dust; place in appropriate container for disposal.

Gather larger pieces by an appropriate method. Reduce airborne dust 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

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).

Wood/Wood Dust (CAS # Not Assigned)

	TWA	STEL	Ceiling	
ACGIH	1 mg/m3 TWA (Inhalable)	Not established	Not established	
OSHA	5 mg/m3 TWA (Total Dust) (Vacated)	10 mg/m3 (Vacated)	Not established	

Formaldehyde (CAS # 50-00-0)

	TWA	STEL	Ceiling	
ACGIH	Not established	Not established	0.3 ppm Ceiling	
OSHA	0.75 ppm TWA	2 ppm STEL see 29 CFR	Not established	
		1910.1048		

Engineering controlsDue 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 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 hands. Ensure compliance with OSHA's PPE standards (29 CFR 1910 132 (general) and 138

hands. 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)).

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A NIOSH approved dust mask or filtering facepiece is recommended in poorly ventilated areas Respiratory protection

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

Resinous wood Odor Odor threshold Not available

Physical state Solid.

pН Not applicable Melting point Not applicable Freezing point Not applicable **Boiling point** Not applicable Flash point Not applicable **Evaporation rate** Not applicable **Flammability** Combustible Not available

Flammability limits in air, upper, % by volume

Flammability limits in air, lower, % by volume

40 g/cm3 for wood dust

Vapor pressure Not applicable Vapor density Not applicable Variable Specific gravity Relative density Not available Solubility (water) Insoluble **Partition coefficient** Not applicable

(n-octanol/water)

Auto-ignition temperature

399.2 - 500 °F (204.4 - 260 °C) for wood

Decomposition temperature Not available **Bulk density** Not applicable

10. Chemical Stability & Reactivity Information

Chemical stability Stable at normal conditions.

Conditions to avoid Contact with incompatible materials. High temperatures, Heat, flames and sparks. Dust may

form explosive mixture in air.

Conditions of Reactivity None known.

Strong acids, alkalies, oxidizing agents and drying oils. Incompatible materials

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.

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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. 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.

FORMALDEHYDE. Exposure to formaldehyde may cause temporary irritation to the nose and throat and may lead to respiratory disorders. However, in a thorough review of sensory/respiratory irritation studies of formaldehyde from the standpoint of occupational exposure, an expert panel has observed exposures up to concentrations of 0.3 ppm failed to produce irritation. In general, irritation will not be reported until concentrations reach 0.5 - 1 ppm. Respiratory disorder studies have concluded the threshold for long-term chronic pulmonary effects is between 0.4 and 3 ppm and chronic obstructive pulmonary disease is 2 ppm. Additionally, persons with asthma responded no differently than healthy individuals at concentrations as high as 3 ppm. Pre-existing respiratory disorders may be aggravated by exposure.

The International Agency for Research on Cancer (IARC) classifies formaldehyde as a carcinogen. This classification is based on the increased occurrence of a rare cancer of the nasopharyngeal cavity. IARC determined that there was insufficient evidence of other cancers including cancer of the oral cavity, oro- and hypopharynx, larynx, lung, sinonasal cavity, pancreas, brain and leukemia. The National Toxicology Program (NTP) includes formaldehyde in its Annual Report on Carcinogens. OSHA regulates formaldehyde as a potential carcinogen for exposures at or exceeding 0.5 ppm.

Toxicological information (Ingredients)

Formaldehyde (CAS # 50-00-0)

Toxicology Data - Selected LD50s and LC50s Oral LD50 Rat: 500 mg/kg

Inhalation LC50 Rat: 1 mg/l/4h

Irritancy

Product dust may cause irritation to eyes, skin and/or lungs.

Sensitization

Formaldehyde (CAS # 50-00-0)

ACGIH - Threshold Limit Values - Sensitization (SEN) Notations Sensitizer

Carcinogenicity

Formaldehyde (CAS # 50-00-0)

ACGIH - Threshold Limit Values - Carcinogens IARC - Group 1 (Carcinogenic to Humans)

NTP (National Toxicology Program) - Report on Carcinogens - Reasonably Anticipated to be Human Carcinogens

U.S. - OSHA - Hazard Communication Carcinogens

U.S. - OSHA - Specifically Regulated Carcinogens (1910.1001 to

1910.1096)

Wood/Wood Dust (CAS # Not Assigned)

IARC - Group 1 (Carcinogenic to Humans)

NTP (National Toxicology Program) - Report on Carcinogens - Known

Human Carcinogens

U.S. - OSHA - Hazard Communication Carcinogens

Mutagenicity Not available. Reproductive effects Not available. **Teratogenicity** Not available. Synergistic materials Not applicable. A2 - Suspected Human Carcinogen

Monograph 88 [2006], Monograph 62 [1995], Supplement 7

Reasonably Anticipated To Be A Human Carcinogen

Present

Irritant and potential cancer hazard - see 29 CFR 1910.1048

Monograph 62 [1995] Known Human Carcinogen

Present

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12. Ecological Information

Ecotoxicity

Formaldehyde (CAS # 50-00-0)

Ecotoxicity - Freshwater Fish Species Data

96 Hr LC50 Pimephales promelas: 24.1 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 0.10 mg/L [flow-through]; 96 Hr

LC50 Brachydanio rerio: 41 mg/L [static]

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.

14. Transport Information

Department of Transportation (DOT) Requirements

This product is not regulated as a hazardous material by the United States (DOT) transportation regulations

Canadian Transportation of Dangerous Goods (TDG) Requirements

Not regulated as dangerous goods.

15. Regulatory Information

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 manufacturer 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 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.

Formaldehyde (CAS # 50-00-0)

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable 100 lb final RQ; 45.4 kg final RQ

Quantities

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA 100 lb EPCRA RQ

RQs

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs 500 lb TPQ

U.S. - CERCLA/SARA - Section 313 - Emission Reporting 0.1 % de minimis concentration

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely hazardous substance

Yes

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Section 311 hazardous

chemical

Section 313 hazardous

chemical

Yes

Yes

Inventory status

Country(s) or region Inventory name Compliant w/inventory requirements (yes/no)

Yes

Canada Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

Canadian regulations This product has been classified in accordance with the hazard criteria of the CPR and the

MSDS contains all the information required by the CPR.

Formaldehyde (CAS # 50-00-0)

Canada - WHMIS - Ingredient Disclosure List 0.1 %

16. Other Information

Product list

Medium Desity 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

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sources believed to be reliable. It is offered for your consideration, investigation and

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