

Material Safety Data Sheet

Material Name: WOOD AND WOOD PRODUCTS

ID: GP-31

***** Section 1 - Chemical Product and Company Identification *****

Chemical Name: WOOD AND WOOD PRODUCTS
Softwood Plywood (Phenolic Bonded)
Oriented Strand Board (OSB)
Hardboard (Standard, Tempered, Perforated, Paneling, Trim and Siding)
Cellulosic Wood Fiber Insulating Board (Softboard)
Solid Sawn Plank Paneling, Wood Siding, Moulding, Millwork, Lumber Products
Engineered Lumber (LVL, Wood-I-Joists, Rimboard)

Product Use: Building Materials - Structural, Industrial or Decorative

Manufacturer Information

Georgia-Pacific Corporation
133 Peachtree Street NE
Atlanta, GA 30303

800-284-5347 Technical Information
404-652-5119 MSDS Request
800-424-9300 CHEMTREC

Trade Name:

See Section 16 for Product List

Description

These products are composed of solid sawn wood, such as lumber, and other wood products, such as softwood plywood, engineered lumber, hardboard and oriented strand board which are layered or mat-formed and bonded together with phenol formaldehyde resins or in the case of softboard products, bonded with asphalt and starch. Some wood products may be coated with water-based decorative finishes, or water repellent sealers. Some green (not dried) sawn wood and lumber products may be sprayed with sap stain control coatings. No harmful chemical residue is left on the surface of the board.

***** Section 2 - Hazards Identification *****

Emergency Overview

Sawing, sanding or machining wood product can produce dust which can cause an explosion hazard. Dust or splinters may cause upper respiratory tract, eye and skin irritation. Asphalt containing products may release fumes when heated. Avoid breathing fumes.

Target Organs

Eyes, skin and respiratory tract

Potential Health Effects: Eyes

Dust or splinters may cause irritation or injury to the eyes.

Potential Health Effects: Skin

Certain species of wood or asphalt may cause allergic contact dermatitis in sensitized individuals. If an allergy preexists or develops, it may be necessary to remove the sensitized worker from further exposure to dust or asphalt.

Potential Health Effects: Ingestion

Not applicable under normal use. If ingested, may cause gastrointestinal tract irritation.

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Potential Health Effects: Inhalation

Dust may cause respiratory irritation, nasal dryness, coughing, sneezing, wheezing, headache and sinusitis. Repeated or prolonged exposure at elevated dust levels may result in allergic responses or respiratory sensitization in some individuals.

Medical Conditions Aggravated by Exposure

Dust may aggravate preexisting skin, eye and respiratory conditions or allergies.

HMIS Ratings: Health: 1 Fire: 1 Physical Hazard: 0 Pers. Prot.: X

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

*** Section 3 - Composition / Information on Hazardous Ingredients ***		
CAS #	Component	Percent
Not Assigned	Wood dust, all soft and hard woods*	NA
8052-42-4	Asphalt**	0-16

Component Information/Information on Non-Hazardous Components

Wood products are manufactured articles and are not considered hazardous under OSHA Hazard Communication Standard 29 CFR 1910.1200. Wood dust, a by-product generated from sawing, sanding or machining wood and wood products, may be hazardous.

These products are not considered controlled products under Canadian WHMIS Regulations.

* Except Western Red Cedar

**Asphalt may be a component of some softboard products. See Section 8 for exposure limits.

*** Section 4 - First Aid Measures ***

First Aid: Eyes

Remove contact lenses if applicable. Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.

First Aid: Skin

For skin contact, wash immediately with soap and water. If irritation persists, get medical attention.

First Aid: Ingestion

Not applicable under normal use. If ingested, may cause gastrointestinal tract irritation.

First Aid: Inhalation

If inhaled, immediately remove the affected person to fresh air. If persistent irritation, severe coughing or breathing difficulty occurs, get medical attention.

*** Section 5 - Fire Fighting Measures ***

Flash Point: Not Applicable

Auto Ignition: 400° - 500°F (204° - 260°C) for wood

General Fire Hazards

Sawing, sanding or machining wood or wood products can produce dust which is a strong to severe explosion hazard if a dust "cloud" contacts an ignition source. An airborne concentration of 40 grams of dust per cubic meter of air is often used as the lower explosion limit (LEL) for wood dust.

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Hazardous Combustion Products

Burning of wood can produce irritating and potentially toxic fumes and gases including carbon monoxide, aldehydes and organic acids. Burning of asphalt can produce fumes and black smoke.

Extinguishing Media

Water spray, carbon dioxide or dry chemical

Fire Fighting Equipment/Instructions

Firefighters should wear protective clothing including self-contained breathing apparatus (SCBA) to avoid breathing combustion products. Partially burned dust is especially hazardous if dispersed into the air. Wet down dust to reduce likelihood of ignition or dispersion. Remove burned or wet dust to open, secure area after fire is extinguished.

NFPA Ratings: Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

*** Section 6 - Accidental Release Measures ***

Not applicable for product in its purchased form. Sweep or vacuum dust generated from sawing, sanding or manufacturing for recovery or disposal. Wet down accumulated wood to reduce the likelihood of ignition or dispersion of dust into the air. Use with adequate ventilation. Do not inhale dusts during clean up. Use NIOSH/OSHA approved respirator where ventilation is not possible and exposure limits could be exceeded.

*** Section 7 - Handling and Storage ***

Fumes may accumulate in confined spaces. Use this product with adequate ventilation. Avoid frequent or prolonged inhalation of wood dust. Goggles or safety glasses are recommended to 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.

Store flat, supported and protected from direct contact with the ground, in a well-ventilated, cool, dry place, away from open flames or temperatures high enough to ignite or cause smoldering combustion.

*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines

A: General Product Information

Georgia-Pacific 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 are 15 mg/m³ (Total Dust) and 5 mg/m³ (Respirable Fraction).

B: Component Exposure Limits

Wood dust, all soft and hard woods* (Not Assigned)

ACGIH 1 mg/m³ TWA (Inhalable)

OSHA: 5 mg/m³ TWA (Total Dust)

Asphalt** (8052-42-4)

ACGIH: 0.5 mg/m³ TWA (fume, inhalable fraction, as benzene soluble aerosol)

OSHA: Not Established

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Engineering Controls

Due to the explosive potential of dust when suspended in air, precautions should be taken when sawing, sanding, or machining wood and wood products to prevent sparks or other ignition sources in ventilation equipment. Local exhaust ventilation is recommended when sawing, sanding, machining this product. General dilution ventilation is recommended in processing and storage areas.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Goggles or safety glasses are recommended when sawing, sanding or machining this product.

Personal Protective Equipment: Skin

Protective clothing and gloves are recommended when sawing, sanding, machining or otherwise handling wood and wood products. Wash exposed area thoroughly after working with the wood, before eating, drinking, and use of tobacco products.

Personal Protective Equipment: Respiratory

A NIOSH/OSHA approved respirator is recommended in dusty environments and where ventilation is not sufficient to keep dust levels below permissible exposure limits.

Personal Protective Equipment: General

Follow good hygienic and housekeeping practices. Clean up areas where dust settles to avoid excessive accumulation of the combustible material. Minimize generation of airborne dust concentrations.

*** Section 9 - Physical & Chemical Properties ***

Appearance:	Rigid board, available in various colors and sizes	Odor:	Resinous wood odor
Physical State:	Solid	pH:	Not Available
Vapor Pressure:	Not Applicable	Vapor Density:	Not Available
Boiling Point:	Not Applicable	Melting Point:	Not Applicable
Solubility (H2O):	Insoluble	Specific Gravity:	Variable

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

This product is stable under ordinary conditions of use.

Chemical Stability: Conditions to Avoid

Avoid excess heat, open flames, and sparks. Avoid contact with incompatible materials.

Incompatibility

Avoid contact with oxidizing agents and drying oils. In softboard products containing asphalt, avoid using solvents or solvent-based adhesives.

Hazardous Decomposition

Burning of wood can produce irritating and potentially toxic fumes and gases including carbon monoxide, carbon dioxide, aldehydes and organic acids. Burning of asphalt can produce fumes and black smoke.

Hazardous Polymerization

Will not occur.

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*** Section 11 - Toxicological Information ***

Acute and Chronic Toxicity

A: General Product Information

Wood dust generated from sawing, sanding, or machining may cause temporary nasal dryness, irritation of the eyes and upper respiratory system, coughing. Allergic skin and lung reactions have been reported with exposure to various wood dusts due to the chemicals present in the wood. Fumes of asphalt, if present in the product, may cause temporary irritation of the eyes and upper respiratory tract.

B: Component Analysis - LD₅₀/LC₅₀

Asphalt** (8052-42-4)

Oral LD₅₀ Rat: >5000 mg/kg; Dermal LD50 Rabbit: >2000 mg/kg

Carcinogenicity

A: General Product Information

Not available for product in purchased form.

B: Component Carcinogenicity

Wood dust, all soft and hard woods* (Not Assigned)

NIOSH: potential occupational carcinogen

NTP: Known Carcinogen

IARC: Monograph 62, 1995 (Group 1 (carcinogenic to humans))

Asphalt** (8052-42-4)

ACGIH: A4 - Not Classifiable as a Human Carcinogen (as benzene soluble aerosol)

NIOSH: potential occupational carcinogen (fume)

Other Toxicological Information

WOOD DUST: Wood dust generated from sawing, sanding or machining may cause nasal dryness, irritation, coughing and 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 cancers of the oropharynx, hypopharynx, lung, lymphatic and hematopoietic systems, stomach, colon or rectum with exposure to wood dust.

ASPHALT: Asphalt exists in a solid state and does not impart any special hazard to the product. If asphalt containing product is heated or comes in contact with heated material, avoid breathing fumes.

*** Section 12 - Ecological Information ***

Ecotoxicity

No data available for this product.

Environmental Fate

No data available for this product.

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

A: General Product Information

This product is not considered hazardous waste under Federal Hazardous Waste Regulations 40 CFR 261. If, however, product is altered by processing, use, or contamination, waste must be tested using methods described in 40 CFR 261 to determine whether product meets criteria for hazardous waste.

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B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Dispose of material according to local, state, federal and provincial regulations.

*** Section 14 - Transportation Information ***

US DOT Transportation Regulations

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

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

OSHA: 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 a hazardous chemical by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

B: Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

SARA Section 311/312 (40 CFR 370)

Acute Health: Yes **Chronic Health:** Yes **Fire:** No **Pressure:** No **Reactive:** No

State Regulations

Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Wood dust, all soft and hard woods*	None	No	No	Yes	No	No	Yes
Asphalt**	8052-42-4	Yes	Yes	Yes	Yes	Yes	Yes

WHMIS Classification: Not Listed

Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

Additional Regulatory Information

Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Asphalt**	8052-42-4	Yes	DSL	EINECS

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*** Section 16 - Other Information ***

Other Information

Product List

Engineered Lumber - Wood I Beam™ Joists; GP Lam® LVL; Laminated Veneer Lumber (LVL); Fiberstrong® Rim Board

Plytanium Plywood and Blue Ribbon OSB Structural Panels - Sanded Pine Plywood; Plywood Sturd-I-Floor®, Plywood Rated Sheathing, Plywood Exterior Siding, Ply-Bead® Panels, Sanded Plywood Project Panels, PlyFrame® Panels, Thermostat® Radiant Barrier Roof Sheathing; Plywood Underlayment; CDX Plywood; Plyform; T1-11 Textured Plywood Siding; Plytanium® DryPly™ Plywood; Oriented Strand Board (OSB); OSB Sturd I Floor; OSB Rated Sheathing; Home Advantage OSB Sturd-I-Floor

Engineered Boards - Hardboard; Commercial Roof Fiberboard; Stedi-R® Regular Fiberboard Sheathing (Blackboard or Softboard Sheathing); Stedi-R® Structural Fiberboard Sheathing; High Density Roof Fiberboard; Regular Density Roof Fiberboard; Expansion Joint Substrate; Hushboard® Sound Deadening Board; Coreboard; Uncoated Container Pack; Table Pad Substrate; Mobile Home Fiberboard; Mark-R Board; Chalk Board; Jubilee® Beadboard Paneling; Lionite Tileboard Paneling; Superwood® Industrial Panels; Catawba® Engineered Wood Siding; Sturbridge®, Fairfax™, Provincetown®, Yorktown®, Cadence®, Sundance®, Classic Select®, Primetrim®, Fiberstrate

Solid Sawn Wood Plank Panels, Siding, Moulding, Millwork, Lumber Products

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MSDS History

Effective Date: 07/26/2006

Supersedes Date: 05/08/2000

Disclaimer

IMPORTANT: 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.

Key/Legend

ACGIH	American Conference of Governmental Industrial Hygienists
ANSI	American National Standards Institute
C	Ceiling Limit
CAS	Chemical Abstract Services Number
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CFR	Code of Federal Regulations
CWA	Clean Water Act
DOT	Department of Transportation
DSL	Domestic Substance List
EPA	Environmental Protection Agency
FDA	Food and Drug Administration

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HCS	Hazard Communication Standard
HEPA	High Efficiency Particulate Air
HMIS	Hazardous Material Identification System
IARC	International Agency for Research on Cancer
LC _{LO}	Lowest lethal concentration of a substance
LC ₅₀	Concentration of a material expected to kill 50% of an animal test group
LD _{LO}	Lowest lethal dose of a material
LD ₅₀	Dose of a material expected to kill 50% of an animal test group
NA	Not Available or Not Applicable
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NJTSR	New Jersey Trade Secret Registry
N O S	Not Otherwise Specified
NSL	Non-Domestic Substance List
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PPE	Personal Protective Equipment
SARA	Superfund Amendments and Reauthorization Act
STEL	Short Term Exposure Limit
TC _{LO}	Lowest Concentration in Air Resulting in a Toxic Effect
TD _{LO}	Lowest Dose Resulting in a Toxic Effect
TDG	Canadian Transportation of Dangerous Goods
TLV	Threshold Limit Value
TSCA	Toxic Substance Control Act
TWA	Time Weighted Average

Contact: Product Safety and Health Information

Contact Phone: (404) 652-5119

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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 AND 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 sign 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 Material Safety Data Sheet for this product.

Product Safety and Health Information
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