

# PureBond® Material Data Safety Sheet

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#### PART I: PRODUCT IDENTIFICATION

Product:

Decorative hardwood plywood assembled with cores of all veneer; phenolic particleboard, phenolic medium density fiberboard, phenolic oriented strandboard, phenolic combination core construction or Medite® MDI medium density fiberboards; in assemblies laminated with Columbia's proprietary, formaldehyde-free, soy-based PureBond assembly process.

Aspen or poplar veneer core lamination blanks shipped without decorative hardwood face and back veneers laminated with Columbia's proprietary, formaldehyde-free, soy-based PureBond assembly process.

Synonyms:

NAF (No added formaldehyde) or NAUF (No-added urea formaldehyde) decorative

hardwood plywood, LEED NC EQ 4.4 compliant hardwood plywood.

Trade Names:

PureBond® brand and PureBond used together with these additional, proprietary

designations: JayCore® KayCore®, Classic Core® (specified with phenolic cross bands).

UV Wood® (on PureBond panels)

Manufacturer:

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Contact:

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Emergency phone:

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# PART II: HAZARDOUS INGREDIENTS

Component:

Wood dust<sup>1</sup> (Generated as waste by-product of further fabrication by user)

CAS No.:

Exposure limits:

(except Beech, and Oak)

ACGIH TLV Softwoods and most hardwoods 10 mg/m<sup>3</sup> 5 mg/m<sup>3</sup> TWA

ACGIH TLV Certain Hardwoods

(15 min)

(i.e. Beech and Oak)

1 mg/m3 TWA N/A

OSHA All soft and hard woods (except Western Red Cedar) OSHA Western Red Cedar

5 mg/m<sup>3</sup> TWA 2.5 mg/m<sup>3</sup> TWA 10 ma/m<sup>3</sup>

# PART III: PHYSICAL PROPERTIES

Description:

Solid wood flooring and hardwood veneers, unfinished and UV Finished multi-ply composite wood panels consisting of various combinations of hardwood or decorative veneer faces, bonded to other wood veneers or strawboard using adhesives containing no added formaldehyde. Generally used in cabinets, furnishings, flooring, and in other nonstructural applications. Typically provided as solid wood strip flooring, 50"X100" lay-on hardwood veneers, and 4' X 8' hardwood panels. Other dimensions of hardwood plywood and veneers are available. Thickness of products range from 1/42" of an inch to over 1".

Specific gravity: Usually less than 1, but varies depending on wood species and moisture content.

Boiling point:

Not applicable.

Solubility in water:

insoluble.

Appearance/Odor:

Normal for natural wood. Light to dark in color. Color and odor vary by species

and expired time since processing.

#### PART IV: FIRE AND EXPLOSION DATA

Flash point:

600° F for wood.

Autoignition temp.:

Varies (typically 400° F to 500° F)

Explosive limits in air: Extinguishing media:

N/A for hardwood plywood. 40 g/m3 (LEL) for wood dust.

Special fire fighting

Water, carbon dioxide, sand

procedures: Unusual fire and explosion hazard:

Follow established procedures for extinguishing wood source fire.

Hardwood plywood does not present an explosion hazard. Sawing, sanding, or machining of hardwood plywood can produce wood dust as a by-product which may present an explosion hazard if a dust cloud contacts an ignition source. An airborne concentration of 40 grams of wood dust per cubic meter of air is often

used as the LEL for wood dust.

## PART V: REACTIVITY DATA

Stability:

Stable under normal conditions.

Incompatibility:

Avoid contact with strong oxidizing agents and drying oils. Avoid open flame. Product may ignite at temperatures in excess of 400° F, depending on length

of time of exposure.

Hazardous decomposition

products: Thermal and/or thermal oxidative decomposition of wood can produce irritating

and toxic fumes and gases, including carbon monoxide, hydrogen cyanide.

aldehydes, organic acids, and polynuclear aromatic compounds.

Conditions to avoid:

Storage:

Avoid open flames or other ignition source.

In a cool, dry place, away from ignition sources. Provide adequate ventilation.

## PART VI: HEALTH AND HAZARD DATA:

Eve contact:

Wood dust can cause mechanical irritation.

Skin contact:

Wood dust from various species of wood may evoke allergic contact dermatitis in

sensitized individuals.

Ingestion:

Not likely to occur.

Inhalation:

Chronic effects:

Wood dust may cause nasal dryness and/or irritation. Coughing, sneezing, wheezing,

sinusitis, prolonged colds, and headaches have also been reported. May aggravate preexisting respiratory conditions or allergies. Wood dust may cause nasal obstruction. Depending on species, wood dust may cause dermatitis on prolonged, repetitive

contact. Wood dust may cause respiratory sensitization and/or irritation. Pre-existing

respiratory disorders may be aggravated by exposure.

Prolonged exposure to wood dust has been reported by some observers of European furniture workers to be associated with nasal cancer. IARC classifies wood dust as a carcinogen to humans (Group 1). This classification is based primarily on IARC's evaluation of increased risk in the occurrence of adenocarcinomas of the nasal cavities and paranasal sinuses associated with exposure to wood dust. IARC did not find sufficient evidence to associate cancers of the oropharynx, lung, lymphatic, and hematopietic systems, stomach, colon, or rectum with exposure to wood dust. The National Toxicology Program (NTP) has also listed wood dust as a known human carcinogen. Wood dust is not listed as a carcinogen by ACGIH or OSHA. A large case control nasal cancer mortality study in North Carolina, Mississippi, Washington and Oregon (1962-1977) did not

demonstrate an association between nasal cancer and occupations normally associated with wood dust.

# PART VII: PRECAUTIONS AND SAFE HANDLING

Ventilation:

Provide adequate ventilation and exhaust to keep airborne contaminant concentration

levels below the OSHA PELs.

Personal protective equipment:

Wear goggles or safety glasses when manufacturing or machining any wood

product. Wear NIOSH/MSHA approved respirator when the allowable limits may be exceeded. Other protective equipment, such as gloves and outer

garments may be needed, depending on dust conditions.

Fire prevention:

Avoid open flames or other ignition sources. Keep fire extinguisher readily

available.

## PART VIII: EMERGENCY AND FIRST AID PROCEDURES

Eyes:

Flush with large amounts of water. Remove to fresh air. If irritation persists,

seek medical attention.

Skin:

Wash affected area with soap and water. If rash, persistent irritation, or

dermatitis occurs, seek medical attention.

Inhalation:

Remove to fresh air. Get medical advice if persistent irritation, severe coughing,

or breathing difficulty occurs.

Ingestion:

Not applicable.

#### PART IX: SPILL, LEAK, STORAGE, AND DISPOSAL

Pick up, vacuum, or sweep spills for recovery and/or disposal. Avoid creating dusty conditions. Provide good ventilation where dust conditions cannot be avoided during cleanup. Place recovered wood dust in a container for proper disposal. Dispose in accordance with Federal, State, and Local regulations. Disposal is the responsibility of the generator.

## PART X: KEY TO COMMONLY USED ACRONYMS

ACGIH:

American Conference of Government and Industrial Hygienists

EPA:

Environmental Protection Agency

HUD:

US Department of Housing and Urban Development

IARC: International

International Agency for Research on Cancer Lowest explosion limit

LEL: Mg/m³:

Milligrams per cubic meter

MSDS: NTP:

Material Safety Data Sheet National Toxicology Program

OSHA:

Occupational Safety and Health Administration

PEL:

Permissible exposure limit

PPM: STEL: Parts per million

SIEL TLV: Short term exposure limit Threshold limit value

TWA:

Time weighted average

#### PART XI: USER RESPONSIBILITY

Important: This information is offered in good faith. It is believed to be accurate and has been compiled from sources believed to be reliable. It is offered for your consideration, investigation, and verification. Columbia Forest Products makes no warranty of any kind, expressed or implied, concerning the accuracy or completeness of the information and data herein. Furthermore, Columbia Forest Products 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.

It is the responsibility of the user to comply with local, state, and/or federal regulations concerning the storage, use, processing, and disposal of the product or subsequently generated waste. It is the responsibility of the user to ensure that this MSDS is the most current version.

# **IMPORTANT FOOTNOTE<sup>1</sup>**

#### **CONCERNING OSHA PELS FOR WOOD DUST**

In <u>AFL-CIO v. OSHA</u> 965 F. 2d 962 (11th Cir. 1992), the court overturned OSHA's 1989 Air Contaminants Rule, including the specific PELs for wood dust that OSHA had established at that time. <u>The 1989 PELs were: TWA - 5 mg/m³; STEL (15 min.) - 10.0 mg/m³ (all soft and hard woods except Western red cedar); Western red cedar TWA-2.5 mg/m³.</u>

Wood dust is now officially regulated as an organic dust under the Particulates Not Otherwise Regulated (PNOR) or Inert or Nuisance Dust categories at PELs noted under PART II of this MSDS. However, a number of states have incorporated provisions of the 1989 standard in their state plans. Additionally, OSHA has announced that it may cite companies under the OSH Act General Duty Clause under appropriate circumstances for non-compliance with the 1989 PELs.