

PureBond® Material Data Safety Sheet Domestic Veneer Core Constructions

Revised: August 21, 2013 Supersedes: February 9, 2011 Number of pages: 4

PART I: PRODUCT IDENTIFICATION

Product: Decorative hardwood plywood assembled with domestic veneer core in assemblies

laminated with Columbia's proprietary, formaldehyde-free, soy-based PureBond assembly

process.

Domestic aspen/poplar veneer core lamination blanks and bending plywood without decorative hardwood face and back veneers laminated with Columbia's proprietary, formaldehyde-free, soy-based PureBond assembly process. Decorative rotary veneer also

covered by this document.

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

hardwood plywood

Trade Names: PureBond brand name can be used together with these additional, proprietary Columbia

sub brand designations: JayCore®, KayCore, CANAM Gold/silver, DesignEdge, DesignEdge+, MPX®, UV Wood (on PureBond panels), firststep®, LabCoat® (on

PureBond panels.)

Manufacturer: Columbia Forest Products

7900 Triad Center Drive, Suite 200

Greensboro, NC 27409

www.columbiaforestproducts.com

Contact: Ang Schramm, Technical Services Manager

Emergency phone: 334-616-7745

PART II: HAZARDOUS INGREDIENTS

Component: Wood dust² (Generated as waste by-product of further fabrication by user)

CA Prop 65 Notice: Drilling, sawing, sanding or machining wood products generates wood dust, a substance

known to the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. California Health and Safety Code

Section 25249.6.

CAS No.: None

Exposure limits: ACGIH TLV Softwoods and most hardwoods

(except Beech, and Oak) 5 mg/m³ TWA 10 mg/m ACGIH TLV Certain Hardwoods (15 min)

(i.e. Beech and Oak)

OSHA All soft and hard woods

(except Western Red Cedar) 5 mg/m³ TWA 10 mg/m³ OSHA Western Red Cedar 2.5 mg/m³ TWA N/A

 $1 \text{ ma}/\text{m}^3 \text{ TWA}$

N/A

PART III: PHYSICAL PROPERTIES

Description: Hardwood veneers, unfinished and flat line UV finished multi-ply composite wood panels

consisting of various combinations of hardwood or decorative veneer faces, bonded to other wood veneers using adhesives containing no added formaldehyde. Generally used in cabinets, furnishings, flooring, and in other non-structural applications. Typically provided as 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".

PART III: PHYSICAL PROPERTIES (Cont'd)

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

Extinguishing media: Water, ammonium phosphate, sand

Special fire fighting

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: Avoid open flames or other ignition source.

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

PART VI: HEALTH AND HAZARD DATA:

CA Prop 65: Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection.

Eye 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: 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.

Chronic effects: 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 the 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 wood dust contaminant

concentration levels below the OSHA PEL

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 wood dust conditions.

Fire prevention: Avoid open flames or other ignition sources. Keep type A or ABC 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

CARB California Air Resources Board

HUD: US Department of Housing and Urban Development

IARC: International Agency for Research on Cancer

LEED: Leadership in Energy and Environmental Design (LEED) Green Building Rating System

LEL: Lowest explosion limit
Mg/m³: Milligrams per cubic meter
MSDS: Material Safety Data Sheet
NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissible exposure limit

PPM: Parts per million

STEL: Short term exposure limit TLV: Threshold limit value TWA: Time weighted average

USGBC: United States Green Building Council

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.

FOOTNOTES

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</u>; STEL (15 min.) - 10.0 mg/m³ (all soft and hard woods except Western red cedar); Western red cedar TWA-2.5 mg/m³.

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, <u>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.</u>