



May 2, 2011

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## PART I: PRODUCT IDENTIFICATION

**Product:** Decorative hardwood plywood assembled with cores of all veneer; phenolic<sup>1</sup> particleboard; phenolic medium density fiberboard; phenolic oriented strand board; phenolic combination core construction or MDI<sup>1</sup>-resin bonded, medium density fiberboards;

Aspen or 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, 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® with phenolic MDF crossbands (including Classic Core II, Classic Core IV), CANAM Gold+, DesignEdge+™, Europly Plus®, MPX™, UV Wood® (on PureBond panels), LabCoat™ (on PureBond panels.)

**Manufacturer:** LaserBits Inc  
 24410 N 20th Dr  
 Phoenix, AZ 85085

**Contact:** LaserBits Inc  
**Emergency phone:** 1-800-733-7705

## PART II: HAZARDOUS INGREDIENTS

**Component:** **Wood dust<sup>2</sup>** (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

|                         |  |   |                                     |
|-------------------------|--|---|-------------------------------------|
| <b>Exposure limits:</b> | ACGIH TLV Softwoods and most hardwoods (except Beech, and Oak) | <u>PEL</u><br>5 mg/m <sup>3</sup> TWA<br>(15 min) | <u>STEL</u><br>10 mg/m <sup>3</sup> |
|                         | ACGIH TLV Certain Hardwoods (i.e. Beech and Oak)               | 1 mg /m <sup>3</sup> TWA                          | N/A                                 |
|                         | OSHA All soft and hard woods (except Western Red Cedar)        | 5 mg/m <sup>3</sup> TWA                           | 10 mg/m <sup>3</sup>                |
|                         | OSHA Western Red Cedar   | 2.5 mg/m <sup>3</sup> 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/m<sup>3</sup> (LEL) for wood dust.  
Extinguishing media: Water, ammonium phosphate, sand  
Special fire fighting procedures: Follow established procedures for extinguishing wood source fire.  
Unusual fire and explosion hazard: 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 hematopoietic 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/m <sup>3</sup> : | 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 com

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