

HPD UNIQUE IDENTIFIER: 27548

CLASSIFICATION: 09 64 33 Laminated Wood Flooring

PRODUCT DESCRIPTION: 5/8" Engineered American Chestnut is the quintessential reclaimed wood for a romantic floor or a storied wall.

Decimated by a fungal blight in the early 20th century, Chestnut is no longer available as a fresh-sawn wood. We salvage old barns to find this one-of-a-kind wood and skip plane it to maximize its textural and color variation. In addition to saw marks and patina, you are guaranteed to find insect marks, nail holes, and knots. Manufactured entirely in our NY facility with a 3/16" (4.76 mm) wear layer on 12 mm FSC certified ULEF Baltic birch plywood. Our wear layers are adhered to the platform using a formaldehyde free adhesive.

Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

Table with 4 columns: Inventory Reporting Format, Threshold Level, Residuals/Impurities, and All Substances Above the Threshold Indicated Are: Characterized, Screened, Identified. Includes radio button options for reporting methods and thresholds.

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY
GREENSCREEN SCORE | HAZARD TYPE
ULEF BIRCH PLYWOOD [SC:BALTIC BIRCH Not Screened PHENOL-FORMALDEHYDE RESIN LT-P1 | RES CALCIUM LIGNOSULFONATE LT-UNK CHALK NoGS TRITICUM VULGARE KERNEL FLOUR NoGS AMMONIUM SULFATE LT-P1 | END] SC:BIO:AMERICAN CHESTNUT [SC:CHESTNUT Not Screened] WEAR LAYER ADHESIVE [WATER BM-4 CARBON BLACK (USE CASRN 1333-86-4) BM-1 | CAN DIPHENYLMETHANE DIISOCYANATE (MDI) - NON ISOMER SPECIFIC LT-UNK | MUL | RES | SKI | EYE | CAN]

Number of Greenscreen BM-4/BM3 contents ... 1
Contents highest concern GreenScreen Benchmark or List translator Score ... BM-1
Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

Special conditions applied: BiologicalMaterial

[LEED v4] "Yes ex/SC" result is due only to materials and substances for which Special Conditions were applied. Thus "Yes ex/SC" does not disqualify the product for the LEED v4 Materials and Resources Disclosure and Optimization credit, Option 1.

All adhesives used in this engineered flooring emit at extremely low levels and meet the stringent limits set by EPA/CARB, as verified by third party testing and Greenguard Gold certification.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: UL/GreenGuard Gold Certified
Sustainable forestry: FSC Certification - Mixed Credit

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients Option 1

Third Party Verified?

- Yes
No

PREPARER: Self-Prepared

VERIFIER:
VERIFICATION #:

SCREENING DATE: 2022-02-09

PUBLISHED DATE: 2022-02-09

EXPIRY DATE: 2025-02-09

Section 2: Content in Descending Order of Quantity

This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold
- Nested Material Inventory method with individual Material-level thresholds

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.2, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-2-standard

ULEF BIRCH PLYWOOD

#: 67.3080 - 67.3080

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

MATERIAL TYPE: Wood or Lumber

RESIDUALS AND IMPURITIES NOTES: Pioneer Millworks has taken steps – such as those outlined in Emerging Best Practices – to understand what residuals and impurities may be present in this material and disclose that information on the HPD. No known residuals or impurities were found.

OTHER MATERIAL NOTES: Engineered flooring platform.

SC:BALTIC BIRCH

ID: SC:Bio

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: Not Screened

#: 63.9420 - 65.2890

GS: Not Screened

RC: None

NANO: No

SUBSTANCE ROLE: Structure component

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	Hazard Screening not performed	

SUBSTANCE NOTES:

Version: SCBioMats/2018-02-23

Category: Plant-based materials

Identifier: Betula Spp

This disclosure does not provide information on allergens, hyper-accumulation of metals, production of any toxic substances during normal metabolic activities, pesticides, and other potential hazards or sources of hazards which may be found in certain biological materials. This is natural wood used for the veneer layers in our plywood platform.

PHENOL-FORMALDEHYDE RESIN

ID: 9003-35-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2022-02-09 22:15:58

#: 1.7900 - 1.9320

GS: LT-P1

RC: None

NANO: No

SUBSTANCE ROLE: Binder

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RES	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: Component of glue used to adhere birch veneers in the plywood.

CALCIUM LIGNOSULFONATE

ID: 8061-52-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2022-02-09 22:15:59

#: 0.3300 - 0.3770

GS: LT-UNK

RC: None

NANO: No

SUBSTANCE ROLE: Binder

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Component of glue used to adhere birch veneers in the plywood.

CHALK

ID: 13397-25-6

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-02-09 22:16:00**

#: **0.0540 - 0.0610** GS: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Binder**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Component of glue used to adhere birch veneers in the plywood.

TRITICUM VULGARE KERNEL FLOUR

ID: 130498-22-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-02-09 22:16:01**

#: **0.0200 - 0.0540** GS: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Filler**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Component of glue used to adhere birch veneers in the plywood.

AMMONIUM SULFATE

ID: 7783-20-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-02-09 22:16:02**

#: **0.0070 - 0.0070** GS: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Binder**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES: Component of glue used to adhere birch veneers in the plywood.

SC:BIO:AMERICAN CHESTNUT

#: **27.9480 - 29.7440**

PRODUCT THRESHOLD: 100 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes MATERIAL TYPE: Wood or Lumber

RESIDUALS AND IMPURITIES NOTES: Chestnut is the visible top layer of this engineered floor. It is a natural wood and contains no residuals or impurities.

OTHER MATERIAL NOTES: SpecialConditionApplied:BiologicalMaterial --- Engineered flooring wear layer.

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **Not Screened**%: **100.0000 - 100.0000** GS: **Not Screened** RC: **PostC** NANO: **No** SUBSTANCE ROLE: **Structure component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	Hazard Screening not performed	

SUBSTANCE NOTES:

Version: SCBioMats/2018-02-23

Category: Tree-based materials

Identifier: Castanea dentata

This disclosure does not provide information on allergens, hyper-accumulation of metals, production of any toxic substances during normal metabolic activities, pesticides, and other potential hazards or sources of hazards which may be found in certain biological materials. Wear layer is FSC Recycled 100%. Wood is an inherently non-emitting source per LEED®

WEAR LAYER ADHESIVE

%: **3.8460 - 3.8460**PRODUCT THRESHOLD: 100 ppm RESIDUALS AND IMPURITIES CONSIDERED: **Yes** MATERIAL TYPE: **Polymeric Material**

RESIDUALS AND IMPURITIES NOTES: Pioneer Millworks has taken steps – such as those outlined in Emerging Best Practices – to understand what residuals and impurities may be present in this material and disclose that information on the HPD. No known residuals or impurities were found.

OTHER MATERIAL NOTES: The manufacturer of this proprietary adhesive has provided an affidavit attesting that there are no red list ingredients added to this glue. This adhesive when used in our engineered flooring emits at extremely low levels and meet the stringent limits set by EPA/CARB, as verified by third party testing and Greenguard Gold certification.

WATER

ID: **7732-18-5**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-02-09 22:15:58**%: **0.4620 - 0.4790** GS: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Carrier**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Wear layer adhesive component.

CARBON BLACK (USE CASRN 1333-86-4)

ID: **101239-80-9**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-02-09 22:15:59**%: **0.1000 - 0.1000** GS: **BM-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Adhesive**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen
CAN	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification
CAN	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CAN	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources

SUBSTANCE NOTES: Wear layer adhesive component.

DIPHENYLMETHANE DIISOCYANATE (MDI) - NON ISOMER SPECIFIC

ID: 26447-40-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-02-09 22:16:02		
#: 0.0190 - 0.0960	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Adhesive
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
MUL	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published		
RES	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage		
SKI	EU - GHS (H-Statements) Annex 6 Table 3-1	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]		
SKI	EU - GHS (H-Statements) Annex 6 Table 3-1	H317 - May cause an allergic skin reaction [Skin sensitization - Category 1]		
EYE	EU - GHS (H-Statements) Annex 6 Table 3-1	H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]		
RES	EU - GHS (H-Statements) Annex 6 Table 3-1	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled [Respiratory sensitization - Category 1]		
CAN	EU - GHS (H-Statements) Annex 6 Table 3-1	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]		

SUBSTANCE NOTES: Wear layer adhesive component.

Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

VOC EMISSIONS

UL/GreenGuard Gold Certified

CERTIFYING PARTY: Third Party

ISSUE DATE: 2019-02-

EXPIRY DATE: 2023-

CERTIFIER OR LAB: UL

APPLICABLE FACILITIES: All

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Environment

CERTIFICATE URL: <https://spot.ul.com/main-app/products/catalog/?keywords=pioneer+millworks>

CERTIFICATION AND COMPLIANCE NOTES: Certification applies to all engineered wood floors manufactured by Pioneer Millworks. Flooring products are determined compliant in accordance with California Department of Public Health (CDPH) Standard Method V1.2-2017 using an Office and Classroom environment. Product tested in accordance with UL 2821 test method to show compliance to emission limits on UL 2818. Section 7.1 and 7.2.

SUSTAINABLE FORESTRY

FSC Certification - Mixed Credit

CERTIFYING PARTY: Third Party

ISSUE DATE: 2021-12-

EXPIRY DATE: 2026-

CERTIFIER OR LAB: SCS Global

APPLICABLE FACILITIES: All

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Services

CERTIFICATE URL: <https://info.fsc.org/details.php?id=a024000000857A4AAI&type=certificate>

CERTIFICATION AND COMPLIANCE NOTES: Certificate Code: SCS-COC-003998-D - FSC Mix 100%

Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

No accessories are required for this product.

Section 5: General Notes

WE DO WELL WHEN WE DO GOOD

We believe in the balance of people, planet, and profit working together towards a better future for all. For over 30 years we have been reclaiming and sourcing wood in responsible ways, from responsible companies, responsible places, and responsible people. Sustainability is part of our culture, a shared commitment to doing right for our customers and the environment.

We strive to keep our carbon footprint small; our roofs house 100kW solar arrays, and our wood scraps keep us warm. We encourage our coworkers to drive electric and charge up at work. We are an employee-owned company, putting company stock in the hands of employees and helping preserve local jobs. One percent of our reclaimed teak sales are donated to conservation causes on the island of Borneo. Our American Prairie sales support domestic barn and history preservation. We believe in promoting a sustainable wage for all who work here.

MANUFACTURER INFORMATION

MANUFACTURER: Pioneer Millworks
ADDRESS: 1180 Commercial Drive
Farmington New York 14425, United States
WEBSITE: https://pioneermillworks.com/

CONTACT NAME: Michele Caryl
TITLE: Acquisitions Manager
PHONE: 585-924-9970
EMAIL: michele@pioneermillworks.com

The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

KEY

Hazard Types

- AQU Aquatic toxicity
CAN Cancer
DEV Developmental toxicity
END Endocrine activity
EYE Eye irritation/corrosivity
GEN Gene mutation
GLO Global warming
LAN Land toxicity
MAM Mammalian/systemic/organ toxicity
MUL Multiple
NEU Neurotoxicity
NF Not found on Priority Hazard Lists
OZO Ozone depletion
PBT Persistent, bioaccumulative, and toxic
PHY Physical hazard (flammable or reactive)
REP Reproductive
RES Respiratory sensitization
SKI Skin sensitization/irritation/corrosivity
UNK Unknown

GreenScreen (GS)

- BM-4 Benchmark 4 (prefer-safer chemical)
BM-3 Benchmark 3 (use but still opportunity for improvement)
BM-2 Benchmark 2 (use but search for safer substitutes)
BM-1 Benchmark 1 (avoid - chemical of high concern)
BM-U Benchmark Unspecified (due to insufficient data)
LT-P1 List Translator Possible 1 (Possible Benchmark-1)
LT-1 List Translator 1 (Likely Benchmark-1)
LT-UNK List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping to a LT-1 or LTP1 score.)
NoGS No GreenScreen.

Recycled Types

- PreC Pre-consumer recycled content
PostC Post-consumer recycled content
UNK Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms:

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Inventory Methods:

- Nested Method / Material Threshold Substances listed within each material per threshold indicated per material
Nested Method / Product Threshold Substances listed within each material per threshold indicated per product
Basic Method / Product Threshold Substances listed individually per threshold indicated per product

- Nano Composed of nano scale particles or nanotechnology
Third Party Verified Verification by independent certifier approved by HPDC
Preparer Third party preparer, if not self-prepared by manufacturer
Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:

- a method for the assessment of exposure or risk associated with product handling or use,
a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.