

Name WholeTrees® Structural Products, Unfinished



Product ID Classification 06 10 00.00 Wood, Plastics, and Composites: Rough Carpentry

Website wholetrees.com

Manufacturer WholeTrees Architecture and Structures Contact Name Michaela Harms Title Engineer/R+D Manager Address 800 Williamson St. Madison, Wisconsin 53703 United States Phone 6083105282 Email info@wholetrees.com

Description WholeTrees® Structural Products are pre-engineered wood components made from un-milled timbers, a by-product of sustainable forest management. WholeTrees utilizes 4"-24" diameter trees that are 50% stronger than their milled lumber counterparts. As part of our engineered structural systems, these timbers provide a low embodied energy and high CO2 capture alternative to steel, recycled steel and traditional milled lumber. The trees are left unfinished or finished with a coat of Heritage Finishes or Hemp Shield. A borate treatment is applied for pest and mildew control. Product packages come with PE stamped shop drawings, designed steel connections, and easy installation guidelines. WholeTrees also offers installation services nationally. Our products fit in Type II, III, IV, and V construction and are definable as Heavy Timber within the IBC. WholeTrees products can be FSC certified.

Release Date 2016-09-27 Expiry Date 2019-09-27 HPD URL http://www.wholetrees.com/prod-over/ Self-declared Second Party Third Party Certifier Certificate #

SUMMARY DISCLOSURE

The content of this product was assessed for health hazard warnings as required using Pharos

Residuals Disclosure Full Disclosure of Intentional Ingredients Full Disclosure of Known Hazards Disclosure Notes Measured 100 ppm (ideal) Measured 1000 ppm Predicted by process chemistry As per MSDS (1,000 & 10,000 ppm) Not disclosed Other Yes No Yes No

Contents in Descending Order of Quantity

Black Locust , BORON SODIUM OXIDE (B8NA2O13), TETRAHYDRATE

Hazards Highest concern GreenScreen score - List Translator Unspecified PBT (Persistent Bioaccumulative Toxic) Cancer Gene Mutation Development Reproductive Endocrine Respiratory Neurotoxicity Mammal Skin or Eye Aquatic toxicity Land toxicity Physical hazard Global warming Ozone depletion Multiple Unknown

Total VOC Content Material (g/L) Regulatory (g/L) N/A N/A Does the product contain exempt VOCs? Are there VOC-free tints available? N/A N/A Yes No Yes No

Notes

Certifications + Compliance

VOC Emissions Not tested Chemicals of Concern ILFI Declare - Red List Compliant VOC Content N/A

The HPD Standard is solely a declaration of product content and direct health hazards associated with exposure to its individual contents. It is not a full assessment of environmental impacts from the life cycle of this product. It is not an assessment of risks associated with actual use of the product. It does not address the potential health impacts of substances used or created during manufacture that do not appear in the final product as residuals, nor substances created during combustion or other degradation processes.

This Health Product Declaration was generated following the requirements of the noted Standard version and is valid for a total of three years after date of issue or three months after a substantive change of product contents occurs. Users should verify that this Health Product Declaration is compliant with the most current version of the HPD Standard. Accuracy of claims made in this Health Product Declaration is the sole responsibility of the listed manufacturer and certifier (if applicable). The HPD Collaborative does not warrant any claim made herein, explicit or implicit. The HPD Standard is an “open standard” developed and managed by the HPD Collaborative, a nonprofit organization. For more information, visit hpdcollaborative.org.

CONTENT IN DESCENDING ORDER OF QUANTITY

All ingredients must be assessed for health warnings against Priority Hazard Lists, regardless of disclosure level.

Priority Hazard Lists and information on the GreenScreen Benchmarks can be found at www.hpdcollaborative.org/hazardlists.

GS: GreenScreen Benchmark; **RC:** Recycled Content, **PC:** Post Consumer, **PI:** Post Industrial (Pre-consumer), **BO:** Both; **Nano:** comprised of nanoscale particles or nanotechnology

Name	CAS RN	% weight	GS	RC	Nano	Role
Hazard A	Warning A					
Hazard B	Warning B					
Hazard C	Warning C					
Hazard D	Warning D					
Hazard E	Warning E					
Notes						
Black Locust		99.8 - 99.95 %		N	N	Timber
None found	No warnings found on HPD Priority lists					
Many wood varieties are used for our building products including Ash, Red Pine, Oak, and more.						
BORON SODIUM OXIDE (B8NA2O13), TETRAHYDRATE	12280-03-4	0.05 - 0.2 %	LT-UNK	U	U	Wood treatment
None found	No warnings found on HPD Priority lists					
Insecticide and fungicide						

CERTIFICATIONS AND COMPLIANCE

Certifying Party = First: Manufacturer’s self-declaration; Second: Verification by trade association or other interested party; Third: Verification by independent certifier (ideal).

Applicable facilities = Manufacturing sites to which testing applies.

Type	Standard or Certification			Certifier or Laboratory
	Certifying Party	Issue Date	Expiry Date	Certificate URL
	Applicable Facilities			
	Notes			
VOC Emissions	Not tested			

VOC Content	N/A			
Recycled Content	Not tested			
Chemicals of Concern	ILFI Declare - Red List Compliant - International Living Future Institute (ILFI)		International Living Future Institute (ILFI)	
	Voluntary	2016-08-31	2017-09-01	https://living-future.org/wholetrees%C2%AE-structural-products
	All			

ACCESSORY MATERIALS

This section is for additional products required by warranty or recommended by the manufacturer for installation (such as adhesives, fasteners, or factory coatings) or for maintenance, cleaning, or operations. Refer to Health Product Declarations, published separately, for a complete view of these products.

Note: This declaration is not intended to address hazards of the installation process.

Required or Recommended Product	URL for Companion Health Product Declaration
Condition when required or recommended and/or other notes	
Heritage Finishes (VOC 405.45 g/L)	
This is an optional finish used to enhance durability in installations. Heritage also creates a LEED-friendly lower VOC finish with less than 350 g/L. Final percentage in product by weight would be less than 0.03%.	
Tim-Bor (VOC 0.00 g/L)	
Tim-bor is a borate wood preservative, insecticide and fungicide. This is applied to all timbers.	
Hemp Shield (VOC 9.00 g/L)	
This is an optional finish with a lower VOC content than Heritage Finishes, but no ingredients list was provided by the company upon request due to proprietary reasons. Final percentage in product by weight would be less than 0.02%.	

NOTES

WholeTrees Structural Products carry the Declare label. Using our products can contribute to earning LEED v4 credits MR114-Building Product Disclosure and Optimization for Sourcing of raw materials and Material ingredients, EQ112-Low Emitting Materials, and Regional Priority Credits in various areas including 15 of the 100 largest cities in the US.

Name WholeTrees Structural Products, Heritage Finish



Product ID Classification 06 00 00.00 Wood, Plastics, and Composites: Wood, Plastics, Composites

Website wholetrees.com

Manufacturer WholeTrees Architecture and Structures Contact Name Michaela Harms Title Engineer/R&D Manager Address 800 Williamson St. Madison, WI 53703 Phone 6083105282 Email info@wholetrees.com

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Contents in Descending Order of Quantity

Black Locust , BORON SODIUM OXIDE (B8NA2O13), TETRAHYDRATE , Tung oil , LINSEED OIL , Beeswax, white (Apis mellifera L.) , GUM ROSIN , D-LIMONENE

Hazards Highest concern GreenScreen score - List Translator Benchmark 1 PBT (Persistent Bioaccumulative Toxic) Development Reproductive Endocrine Respiratory Neurotoxicity Mammal Skin or Eye Aquatic toxicity Land toxicity Physical hazard Global warming Ozone depletion Multiple Unknown

Total VOC Content Material (g/L) Regulatory (g/L) N/A N/A Does the product contain exempt VOCs? Are there VOC-free tints available? N/A N/A Yes No Yes No

Notes

Certifications + Compliance

VOC Emissions Not tested VOC Content N/A Chemicals of Concern ILFI Declare - Red List Compliant

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Name	CAS RN	% weight	GS	RC	Nano	Role
Hazard A	Warning A					
Hazard B	Warning B					
Hazard C	Warning C					
Hazard D	Warning D					
Hazard E	Warning E					
Notes						
Black Locust		99 - 100 %		N	N	Timber
None found	No warnings found on HPD Priority lists					
Many wood varieties are used for our building products including Ash, Red Pine, Oak, and more.						
BORON SODIUM OXIDE (B8NA2O13), TETRAHYDRATE	12280-03-4	0.05 - 0.2 %	LT-UNK	U	U	Wood treatment
None found	No warnings found on HPD Priority lists					
Insecticide and fungicide.						
Tung oil	8001-20-5	0 - 0.6 %	LT-UNK	U	U	Wood finish
None found	No warnings found on HPD Priority lists					
Heritage Original Finish						
LINSEED OIL	8001-26-1	0 - 0.6 %		U	U	Wood finish
None found	No warnings found on HPD Priority lists					
Heritage Original Finish						
Beeswax, white (Apis mellifera L.)	8012-89-3	0 - 0.6 %		U	U	Wood finish
None found	No warnings found on HPD Priority lists					
Heritage Original Finish						
GUM ROSIN	8050-09-7	0 - 0.6 %	LT-UNK	U	U	Wood finish

SKIN SENSITIZE	EU - R-phrases: R43 - May cause sensitization by skin contact (also in MAK)					
SKIN IRRITATION	EU - GHS (H-Statements): H317 - May cause an allergic skin reaction					
Heritage Original Finish						
D-LIMONENE	5989-27-5	0 - 0.06 %	LT-1	U	U	Wood finish
SKIN IRRITATION	EU - R-phrases: R38 - Irritating to skin (also in EU - GHS (H-Statements))					
SKIN SENSITIZE	EU - R-phrases: R43 - May cause sensitization by skin contact (also in MAK)					
ACUTE AQUATIC	EU - R-phrases: R50 - Very Toxic to Aquatic Organisms (also in EU - GHS (H-Statements))					
PBT	OSPAR - Priority PBTs & EDs & equivalent concern: PBT - Substance of Possible Concern					
CHRON AQUATIC	EU - GHS (H-Statements): H410 - Very toxic to aquatic life with long lasting effects					
MULTIPLE	German FEA - Substances Hazardous to Waters: Class 3 - Severe Hazard to Waters					
Heritage Original Finish						

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	Notes			
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VOC Content	N/A			
Recycled Content	Not tested			
Chemicals of Concern	ILFI Declare - Red List Compliant - International Living Future Institute (ILFI)			International Living Future Institute (ILFI)
	Voluntary	2016-08-31	2017-09-01	https://living-future.org/wholetrees%C2%AE-structural-products
	All			

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Heritage also creates a LEED-friendly lower VOC finish with less than 350 g/L which can be used upon request. Final percentage in product by weight would be less than 0.03%.	
Tim-bor (VOC 0.00 g/L)	
Tim-bor is a borate wood preservative, insecticide and fungicide. This is applied to all timbers.	

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