

CLASSIFICATION: 09 64 33 Laminated Wood Flooring

created via: HPDC Online Builder

PRODUCT DESCRIPTION: 5/8" thick prefinished engineered wood flooring. 4mm thick hardwood wear layer (European Oak) on a 11.75 mm thick hardwood plywood platform (Poplar or Eucalyptus). UV oil finish. Wear layer glued to plywood with EPI adhesive. Plywood veneers glued together with phenol-formaldehyde adhesive.

Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

- Nested Materials Method
- Basic Method

Threshold Disclosed Per

- Material
- Product

Threshold level

- 100 ppm
- 1,000 ppm
- Per GHS SDS
- Per OSHA MSDS
- Other

Residuals/Impurities

Residuals/Impurities Considered in 6 of 6 Materials

Explanation(s) provided for Residuals/Impurities?

- Yes
- No

Are All Substances Above the Threshold Indicated:

Characterized Yes No
Percent Weight and Role Provided?

Screened Yes No
Using Priority Hazard Lists with Results Disclosed?

Identified Yes No
Name and Identifier Provided?

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**

PLYWOOD PLATFORM - EUCALYPTUS AND POPLAR [**EUCALYPTUS AND POPLAR** UNK] **HARDWOOD WEAR LAYER - EUROPEAN OAK** [**EUROPEAN OAK** UNK] **UV OIL FINISH, BASE COAT AND TOP COAT** [**ETHOXYLATED TRIMETHYLOLPROPANE TRIACRYLATE** LT-UNK] **GLYCEROL PROPOXYLATE TRIACRYLATE** LT-UNK **BENZOPHENONE** LT-1 | CAN | END **NEOPENTYL GLYCOL DIACRYLATE** LT-UNK | MAM | EYE | SKI **TRIMETHYLOLPROPANE TRIACRYLATE** LT-UNK | EYE | SKI | RES] **EPI GLUE** [**WATER** BM-4] **ETHYLENE VINYL ACETATE POLYMER (EVA)** LT-UNK **LIMESTONE; CALCIUM CARBONATE** LT-UNK] **HARDENER FOR EPI GLUE** [**POLYMERIC MDI (PMDI)** LT-UNK | RES | MUL | CAN] **PHENOLFORMALDEHYDE GLUE** [**PHENOL FORMALDEHYDE** LT-P1] | RES **SODIUM HYDROXIDE** LT-P1 | SKI | PHY]

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

INVENTORY AND SCREENING NOTES:

Any hazards associated with the chemicals used in the manufacture of this wood flooring's finish are only present when the finish is in a wet state (i.e. when it is being applied at the factory). Through the UV curing process, the chemicals are altered and become inert such that there is no exposure to the user. Any formaldehyde used in this wood flooring's adhesive system emits at extremely low levels and meets the stringent limits set by EPA/CARB.

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: FloorScore
Sustainable forestry: Forest Stewardship Council

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared
VERIFIER:
VERIFICATION #:

SCREENING DATE: 2017-04-11
PUBLISHED DATE: 2017-08-25
EXPIRY DATE: 2020-04-11

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 2.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-standard

PLYWOOD PLATFORM - EUCALYPTUS AND POPLAR

#: 73.0000

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Natural wood - no residuals and impurities.

OTHER MATERIAL NOTES: This is the plywood platform for the engineered flooring, i.e. the substrate that the wear layer is glued to.

EUCALYPTUS AND POPLAR

ID: Not registered

#: 100.0000

GS: UNK

RC: None

NANO: No

ROLE: Platform

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

HARDWOOD WEAR LAYER - EUROPEAN OAK

#: 24.0000

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Natural wood - no residuals and impurities.

OTHER MATERIAL NOTES: This is the natural wood used in the wear layer (the top, visible layer) of the engineered wood flooring.

EUROPEAN OAK

ID: Not registered

#: 100.0000

GS: UNK

RC: None

NANO: No

ROLE: Wear layer

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

UV OIL FINISH, BASE COAT AND TOP COAT

#: 2.0000 - 5.0000

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

OTHER MATERIAL NOTES: The hazards associated with some of the chemicals used in the manufacture of this finish are only present when the finish is in a wet state (i.e. when it is being applied at the factory). Through the UV curing process, the chemicals are altered and become inert such that there is no exposure to the user.

ETHOXYLATED TRIMETHYLOLPROPANE TRIACRYLATEID: **28961-43-5**

#: **60.0000 - 80.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Finish**

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES:

GLYCEROL PROPOXYLATE TRIACRYLATEID: **52408-84-1**

#: **1.0000 - 5.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Finish**

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES:

BENZOPHENONEID: **119-61-9**

#: **1.0000 - 5.0000** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Finish**

HAZARDS: AGENCY(IES) WITH WARNINGS:

CANCER IARC Group 2b - Possibly carcinogenic to humans

CANCER CA EPA - Prop 65 Carcinogen

ENDOCRINE ChemSec - SIN List Endocrine Disruption

ENDOCRINE TEDX - Potential Endocrine Disruptors Potential Endocrine Disruptor

SUBSTANCE NOTES:

NEOPENTYL GLYCOL DIACRYLATEID: **2223-82-7**

#: **0.0100 - 0.9000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Finish**

HAZARDS: AGENCY(IES) WITH WARNINGS:

MAMMALIAN EU - R-phrases R24 - Toxic in Contact with Skin

EYE IRRITATION EU - R-phrases R36 - Irritating to eyes

SKIN IRRITATION EU - R-phrases R38 - Irritating to skin

SKIN SENSITIZE	EU - R-phrases	R43 - May cause sensitization by skin contact
MAMMALIAN	EU - GHS (H-Statements)	H311 - Toxic in contact with skin
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation

SUBSTANCE NOTES:

TRIMETHYLOLPROPANE TRIACRYLATE

ID: 15625-89-5

%: 0.0100 - 0.9000	GS: LT-UNK	RC: None	NANO: No	ROLE: Finish
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
EYE IRRITATION	EU - R-phrases	R36 - Irritating to eyes		
SKIN IRRITATION	EU - R-phrases	R38 - Irritating to skin		
SKIN SENSITIZE	EU - R-phrases	R43 - May cause sensitization by skin contact		
RESPIRATORY	AOEC - Asthmagens	Asthmagens (Rs) - sensitizer-induced		
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation		
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction		
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation		
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization		

SUBSTANCE NOTES:

EPI GLUE

%: 1.0000 - 2.0000

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: No known residuals and impurities.

OTHER MATERIAL NOTES: Emulsion Polymer Isocyanate (EPI) glue used to bind the wear layer to the plywood platform.

WATER

ID: 7732-18-5

%: 30.0000 - 80.0000	GS: BM-4	RC: None	NANO: No	ROLE: Binder
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			

SUBSTANCE NOTES:

ETHYLENE VINYL ACETATE POLYMER (EVA)

ID: 24937-78-8

#: 10.0000 - 30.0000	GS: LT-UNK	RC: None	NANO: No	ROLE: Binder
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES:

LIMESTONE; CALCIUM CARBONATE

ID: 1317-65-3

#: 10.0000 - 30.0000	GS: LT-UNK	RC: None	NANO: No	ROLE: Binder
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES:

HARDENER FOR EPI GLUE#: **1.0000 - 2.0000**

HPD URL:

PRODUCT THRESHOLD: 1000 ppm	RESIDUALS AND IMPURITIES CONSIDERED: Yes
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RESIDUALS AND IMPURITIES NOTES: No known residuals and impurities.

OTHER MATERIAL NOTES:

POLYMERIC MDI (PMDI)

ID: 9016-87-9

#: 100.0000	GS: LT-UNK	RC: None	NANO: No	ROLE: Binder
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
RESPIRATORY	AOEC - Asthmagens Asthmagens (G) - generally accepted
RESTRICTED LIST	US EPA - PPT Chemical Action Plans EPA Chemical of Concern - Action Plan published
RESPIRATORY	US EPA - PPT Chemical Action Plans Inhalation sensitizer causing asthma and lung damage
CANCER	MAK Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
RESPIRATORY	MAK Sensitizing Substance Sah - Danger of airway & skin sensitization

SUBSTANCE NOTES:

PHENOLFORMALDEHYDE GLUE#: **1.0000 - 2.0000**

HPD URL:

RESIDUALS AND IMPURITIES NOTES: No known residuals and impurities.

OTHER MATERIAL NOTES: Adhesive used to laminate wood veneers into plywood

PHENOL FORMALDEHYDE

ID: 9003-35-4

#: **90.0000 - 97.5000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Binder**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES:

SODIUM HYDROXIDE

ID: 1310-73-2

#: **2.5000 - 10.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Binder**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
SKIN IRRITATION	EU - R-phrases	R35 - Causes severe burns
SKIN IRRITATION	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage
PHYSICAL HAZARD (REACTIVE)	Korea - GHS	H290: May be corrosive to metals

SUBSTANCE NOTES:

 **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	FloorScore		
CERTIFYING PARTY: Third Party	ISSUE DATE:2016-12-	EXPIRY DATE:	CERTIFIER OR LAB: Scientific
APPLICABLE FACILITIES: Manufacturing facilities	28		Certification Systems
CERTIFICATE URL:			
CERTIFICATION AND COMPLIANCE NOTES:			

SUSTAINABLE FORESTRY	Forest Stewardship Council		
CERTIFYING PARTY: Third Party	ISSUE DATE:2016-06-	EXPIRY DATE: 2021-	CERTIFIER OR LAB: GFA
APPLICABLE FACILITIES: All distribution facilities	30	06-29	
CERTIFICATE URL:			
CERTIFICATION AND COMPLIANCE NOTES:			

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

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: **Galleher**
ADDRESS: **9303 Greenleaf Ave.**
Santa Fe Springs CA 90670, United States
WEBSITE: **www.monarchplank.com**

CONTACT NAME: **Jason Grant**
TITLE: **Environmental Compliance Manager**
PHONE: **7075365983**
EMAIL: **jgrant@galleher.com**

KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet
GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Hazard Types

AQU Aquatic toxicity	GLO Global warming	PHY Physical Hazard (reactive)
CAN Cancer	MAM Mammalian/systemic/organ toxicity	REP Reproductive toxicity
DEV Developmental toxicity	MUL Multiple hazards	RES Respiratory sensitization
END Endocrine activity	NEU Neurotoxicity	SKI Skin sensitization/irritation/corrosivity
EYE Eye irritation/corrosivity	OZO Ozone depletion	LAN Land Toxicity
GEN Gene mutation	PBT Persistent Bioaccumulative Toxic	NF Not found on Priority Hazard Lists

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-P1 List Translator Possible Benchmark 1
BM-3 Benchmark 3 (use but still opportunity for improvement)	LT-1 List Translator Likely Benchmark 1
BM-2 Benchmark 2 (use but search for safer substitutes)	LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
BM-1 Benchmark 1 (avoid - chemical of high concern)	NoGS Unknown (no data on List Translator Lists)
BM-U Benchmark Unspecified (insufficient data to benchmark)	

Recycled Types

PreC Preconsumer (Post-Industrial)

PostC Postconsumer

Both Both Preconsumer and Postconsumer

Unk Inclusion of recycled content is unknown

None Does not include recycled content

Other Terms

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.