

CLASSIFICATION: 09 64 33 Laminated Wood Flooring

created via: HPDC Online Builder

PRODUCT DESCRIPTION: 9/16" thick prefinished engineered wood flooring. 3mm thick hardwood wear layer (European Oak) on a 11.75 mm thick hardwood plywood platform (Hevea). UV lacquer 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

Percent Weight and Role Provided?

- Yes No

Screened

Using Priority Hazard Lists with Results Disclosed?

- Yes No

Identified

Name and Identifier Provided?

- Yes No

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 - HEVEA [HEVEA UNK] HARDWOOD WEAR LAYER - EUROPEAN OAK [EUROPEAN OAK UNK] UV LACQUER FINISH - PRIMER, SEALER & TOPCOAT [NONHAZARDOUS ACRYLATE POLYMERS UNK 3,3,5-TRIMETHYLCYCLOHEXYL ACETATE LT-P1 | MUL 2-(2-ETHOXYETHOXY)ETHYL ACRYLATE LT-UNK TRIPROPYLENE GLYCOL DIACRYLATE LT-P1 | EYE | SKI | AQU | MUL 4-HYDROXY-4-METHYL-2-PENTA0 LT-UNK | EYE DIPROPYLENE GLYCOL DIACRYLATE LT-UNK BENZOPHENONE LT-1 | CAN | END 1,2-ETHANEDIAMINE, N-(3-(TRIMETHOXSILYL)PROPYL)-(9CI) LT-UNK TRIMETHYLOLPROPANE TRIACRYLATE LT-UNK | EYE | SKI | RES] EPI GLUE [WATER BM-4 ETHYLENE VINYL ACETATE POLYMER (EVA) LT-UNK LIMESTONE; CALCIUM CARBONATE LT-UNK] PHENOLFORMALDEHYDE GLUE [PHENOL FORMALDEHYDE LT-P1 | RES SODIUM HYDROXIDE LT-P1 | SKI | PHY] HARDENER FOR EPI GLUE [POLYMERIC MDI (PMDI) LT-UNK | RES | MUL | CAN]

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:

The Acrylate Polymers used in our wood flooring finish cannot currently be screened and are considered Special Condition Materials by HPDC. There isn't a single CAS number registered for Acrylate Polymers and neither a GreenScreen score nor associated hazards data for screening is available in the HPD Builder. Galleher Corporation will update this HPD once guidelines for reporting Special Condition Materials are published by HPDC. 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

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2017-05-09

PUBLISHED DATE: 2017-08-25

EXPIRY DATE: 2020-05-09

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

PLYWOOD PLATFORM - HEVEA

#: 76.0000

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.

HEVEA

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

#: 19.0000

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 LACQUER FINISH - PRIMER, SEALER & TOPCOAT

#: 2.0000 - 5.0000

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

OTHER MATERIAL NOTES: Substances are the chemical components of the base and top coats used in the flooring's UV-cured factory finish. The hazards associated with all 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.

NONHAZARDOUS ACRYLATE POLYMERSID: **Undisclosed**

#: 3.0000 - 20.0000	GS: UNK	RC: None	NANO: No	ROLE: Finish
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
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None Found	No warnings found on HPD Priority lists
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SUBSTANCE NOTES: The Acrylate Polymers used in our wood flooring finish cannot currently be screened and are considered Special Condition Materials by HPDC. There isn't a single CAS number registered for Acrylate Polymers and neither a GreenScreen score nor associated hazards data for screening is available in the HPD Builder. However, we have confidence that the Acrylate Polymers used are nonhazardous because the finish manufacturer is located in Europe and is subject to the EU REACH regulation which requires that the European Chemicals Agency be notified of the presence of all chemical Substances of Very High Concern. No SVHCs have been reported because none are present.

3,3,5-TRIMETHYLCYCLOHEXYL ACETATEID: **67859-96-5**

#: 3.0000 - 15.0000	GS: LT-P1	RC: None	NANO: No	ROLE: Finish
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
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MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
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SUBSTANCE NOTES:

2-(2-ETHOXYETHOXY)ETHYL ACRYLATEID: **7328-17-8**

#: 1.0000 - 10.0000	GS: LT-UNK	RC: None	NANO: No	ROLE: Finish
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
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None Found	No warnings found on HPD Priority lists
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SUBSTANCE NOTES:

TRIPROPYLENE GLYCOL DIACRYLATEID: **42978-66-5**

#: 1.0000 - 5.0000	GS: LT-P1	RC: None	NANO: No	ROLE: Finish
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HAZARDS:	AGENCY(IES) WITH WARNINGS:
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EYE IRRITATION	EU - R-phrases	R36 - Irritating to eyes
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SKIN IRRITATION	EU - R-phrases	R38 - Irritating to skin
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SKIN SENSITIZE	EU - R-phrases	R43 - May cause sensitization by skin contact
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ACUTE AQUATIC	EU - R-phrases	R51 - Toxic to Aquatic Organisms
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CHRON AQUATIC	EU - GHS (H-Statements)	H411 - Toxic to aquatic life with long lasting effects
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
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES:

4-HYDROXY-4-METHYL-2-PENTA0

ID: 123-42-2

#: **1.0000 - 2.5000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Finish**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

EYE IRRITATION	EU - R-phrases	R36 - Irritating to eyes
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation

SUBSTANCE NOTES:

DIPROPYLENE GLYCOL DIACRYLATE

ID: 57472-68-1

#: **0.2000 - 2.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Finish**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found	No warnings found on HPD Priority lists
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SUBSTANCE NOTES:

BENZOPHENONE

ID: 119-61-9

#: **0.1000 - 1.0000** 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:

1,2-ETHANEDIAMINE, N-(3-(TRIMETHOXSILYL)PROPYL)-(9CI)

ID: 1760-24-3

#: 0.1000 - 0.5000	GS: LT-UNK	RC: None	NANO: No	ROLE: Finish
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

TRIMETHYLOLPROPANE TRIACRYLATE

ID: 15625-89-5

#: 0.1000 - 0.5000	GS: LT-UNK	RC: None	NANO: No	ROLE: Finish
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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	Asthmagen (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 together the layers of wood in engineered flooring.

WATER

ID: 7732-18-5

#: 30.0000 - 80.0000	GS: BM-4	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:

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:

PHENOLFORMALDEHYDE 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: This is the adhesive system used to glue the wear layer to the plywood platform and also to glue together the plywood veneers.

PHENOL FORMALDEHYDE

ID: 9003-35-4

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

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagens (Rs) - sensitizer-induced

SUBSTANCE NOTES:

SODIUM HYDROXIDE

ID: 1310-73-2

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

HARDENER FOR 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:

POLYMERIC MDI (PMDI)

ID: 9016-87-9

%: 100.0000

GS: LT-UNK

RC: None

NANO: No

ROLE: Binder

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (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:

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

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Certification Systems

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

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.