

CLASSIFICATION: 09 64 33 Laminated Wood Flooring

created via: HPDC Online Builder

PRODUCT DESCRIPTION: 1/2" prefinished engineered wood flooring. 2mm thick European Oak hardwood wear layer on a 10mm thick Eucalyptus plywood platform. UV urethane finish with aluminum oxide. 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 5 of 5 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 - DOMESTIC HARDWOOD SPECIES [MIXED DOMESTIC HARDWOODS **NoGS**] WEAR LAYER - RED OAK, MAPLE, HICKORY [RED OAK, MAPLE, HICKORY **NoGS**] UV URETHANE FINISH, BASE COAT AND TOP COAT [NONHAZARDOUS ACRYLATE POLYMERS **NoGS** 1,6-HEXANEDIOL DIACRYLATE (1,6-HEXANEDIOL DIACRYLATE) **LT-P1** | EYE | SKI | MUL TRIPROPYL GLYCOL DIACRYLATE **NoGS** METHYL BENZOYLFORMATE (METHYL BENZOYLFORMATE) **LT-UNK** BENZOPHENONE (BENZOPHENONE) **LT-1** | CAN | END] PHENOLFORMALDEHYDE GLUE [PHENOL FORMALDEHYDE **LT-P1** | RES SODIUM HYDROXIDE **LT-P1** | SKI | PHY] ETHYLENE VINYL ACETATE GLUE [WATER (WATER) **BM-4** ETHYLENE VINYL ACETATE POLYMER (EVA) (ETHYLENE VINYL ACETATE POLYMER (EVA)) **LT-UNK** CALCIUM CARBONATE (CALCIUM CARBONATE) **BM-3** ACETIC ACID ETHENYL ESTER, POLYMER WITH ETHENOL (ACETIC ACID ETHENYL ESTER, POLYMER WITH ETHENOL) **LT-UNK** VINYL ACETATE (VINYL ACETATE) **LT-P1** | CAN | PHY | END | MUL | MAM | GEN]

Number of Greenscreen BM-4/BM3 contents..... 2
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. 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. 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 content: RFCI FloorScore

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed

Third Party Verified?

- Yes
 No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2017-05-08

PUBLISHED DATE: 2017-08-25

EXPIRY DATE: 2020-05-08

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 - DOMESTIC HARDWOOD SPECIES

#: 79.0000

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

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

OTHER MATERIAL NOTES:

MIXED DOMESTIC HARDWOODS

ID: **Undisclosed**

#: **100.0000**

GS: **NoGS**

RC: **None**

NANO: **No**

ROLE: **Platform**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

WEAR LAYER - RED OAK, MAPLE, HICKORY

#: 18.0000

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

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

OTHER MATERIAL NOTES:

RED OAK, MAPLE, HICKORY

ID: **Undisclosed**

#: **100.0000**

GS: **NoGS**

RC: **None**

NANO: **No**

ROLE: **Wear layer**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

UV URETHANE FINISH, BASE COAT AND TOP COAT

#: 2.0000 - 5.0000

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

OTHER MATERIAL NOTES:

NONHAZARDOUS ACRYLATE POLYMERSID: **Undisclosed**

#: 7.0000 - 70.0000	GS: NoGS	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: 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.

1,6-HEXANEDIOL DIACRYLATE (1,6-HEXANEDIOL DIACRYLATE)ID: **13048-33-4**

#: 4.0000 - 40.0000	GS: LT-P1	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

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:

TRIPROPYL GLYCOL DIACRYLATEID: **47978-66-5**

#: 1.0000 - 10.0000	GS: NoGS	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:

METHYL BENZOYLFORMATE (METHYL BENZOYLFORMATE)ID: **15206-55-0**

#: 1.0000 - 5.0000	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:

BENZOPHENONE (BENZOPHENONE)

ID: 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:

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: 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:

ETHYLENE VINYL ACETATE 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:

WATER (WATER)

ID: **7732-18-5**

%: 48.0000 - 52.0000

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) (ETHYLENE VINYL ACETATE POLYMER (EVA))

ID: **24937-78-8**

%: 22.0000 - 26.0000

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Binder**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

CALCIUM CARBONATE (CALCIUM CARBONATE)

ID: **471-34-1**

%: 18.0000 - 22.0000

GS: **BM-3**

RC: **None**

NANO: **No**

ROLE: **Binder**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

ACETIC ACID ETHENYL ESTER, POLYMER WITH ETHENOL (ACETIC ACID ETHENYL ESTER, POLYMER WITH ETHENOL)

ID: **25213-24-5**

%: 4.0000 - 8.0000

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Binder**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

VINYL ACETATE (VINYL ACETATE)

ID: **108-05-4**

#: **0.0100 - 0.5000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Binder**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
CANCER	IARC	Group 2b - Possibly carcinogenic to humans
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H225 - Highly flammable liquid and vapour
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
CANCER	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value
MAMMALIAN	US EPA - EPCRA Extremely Hazardous Substances	Extremely Hazardous Substances
GENE MUTATION	New Zealand - GHS	6.6A - Known or presumed human mutagens

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 CONTENT	RFCI 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:			

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.rewardhardwood.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.