

SCREENING DATE: 2025-10-22  
PUBLISHED DATE: 2025-10-22  
EXPIRY DATE: 2028-10-22  
PREPARER: Self-Prepared

HPD UNIQUE IDENTIFIER: 9281952210944  
HPD UNIQUE PRODUCT ID: US-721-22162110111  
CLASSIFICATION: 09 64 00 Wood Flooring  
PRODUCT TYPE: Factory-Finished Engineered-Wood (Wood Flooring)  
PRODUCT DESCRIPTION: Sophisticated, warm, and chic this line offers a twist on classically elegant species, matching function with contemporary farmhouse style. Showcasing modern flare with a more uniform appearance than its reclaimed counterpart, this high grade of White Oak is sourced from forests which are carefully managed to strict Forest Stewardship Council® (FSC) requirements. Celebrated in natural, fresh-sawn tones, expect consistent hues ranging from cream to tan, relaxed grain patterns, and as a few small knots. This sustainably harvested wood pairs especially well with our custom eco-friendly finishes for flooring and paneling.

Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

|                                                         |                                                                  |                                                                            |
|---------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------|
| Inventory Reporting Format<br>→ Nested Materials Method | Residuals/Impurities Evaluation<br>Completed in 4 of 4 Materials | For all contents above the threshold, the manufacturer has:                |
| Threshold Disclosed Per<br>→ Product                    | Explanation(s) provided for Residuals/Impurities?<br>Yes         | Characterized<br>Provided weight and role.<br>Yes                          |
| Threshold Level<br>→ 100 ppm                            |                                                                  | Screened<br>Provided screening results using HPDC-approved methods.<br>Yes |
|                                                         |                                                                  | Identified<br>Provided name and CAS RN or other identifier.<br>Yes         |

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.

NESTED MATERIAL | MATERIAL OR SUBSTANCE | RESIDUAL OR IMPURITY

GREENSCREEN SCORE | HAZARD TYPE

ULEF BIRCH PLYWOOD [ BALTIC BIRCH PHENOL-FORMALDEHYDE RESIN LT-P1 CHALK NoGS CALCIUM LIGNOSULFONATE LT-UNK AMMONIUM SULFATE LT-P1 ] END TRITICUM VULGARE KERNEL FLOUR NoGS ] HARDWOOD WEAR LAYER [ WHITE OAK ] CLEAR POLY TOPCOAT [ WATER BM-4 WHEY PROTEIN NoGS SILICA GEL LT-UNK ] MAM DIPROPYLENE GLYCOL N-BUTYL ETHER (DPNB) LT-UNK | EYE ZINC OXIDE BM-1 ] END | MUL | AQU | MAM | REP PROPYLENE GLYCOL BM-2 ] END | MAM ] WEAR LAYER ADHESIVE [ POLYMETHYLENE POLYPHENYL ISOCYANATE (PRIMARY CASRN IS 9016-87-9) LT-UNK ] CAN | RES | EYE | SKI | MAM WATER BM-4 DIPHENYLMETHANE DIISOCYANATE (MDI) - NON ISOMER SPECIFIC (PRIMARY CASRN IS 26447-40-5) LT-UNK ] SKI | EYE | CAN | MAM CARBON BLACK (PRIMARY CASRN IS 1333-86-4) BM-1 \* ] CAN | EYE | MAM | PHY ]

Number of Greenscreen BM-4/BM3 contents ... 2  
Contents highest-concern GreenScreen score(s) (BM-1, LT-1, LT-P1) ... BM-1, LT-P1  
Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

Antimicrobial Pesticides Reporting: This product does not contain substance(s) that are intentionally added above the [Product - 100 ppm] threshold to act as antimicrobials.

Special Conditions applied: [BiologicalMaterial]

Residuals and impurities are considered following the HPD Best Practice Guidance, 10.02.17, version 1. This is a voluntary, self-reported declaration produced using information from our suppliers, including CAS numbers and SDS data. Every effort has been made to report the substances in this product by the manufacturer to the listed threshold. Any errors or omissions shall be considered a human error and therefore reported to the manufacturer. The manufacturer shall not be liable for omissions.

\*Form-Specific Hazard: This substance's GreenScreen Benchmark or List Translator score and the applicable hazards are related to particulate inhalation, which is expected to occur only during manufacture, installation, maintenance, or demolition, due to activities such as sawing, sanding, grinding, or intensive cleaning. For this reason, this score is intentionally omitted from the "Contents highest concern" line above. See HPDC's Special Conditions policy for more information.

**VOLATILE ORGANIC COMPOUND (VOC) CONTENT**

VOC Content data is not applicable for this product category.

**COMPLIANCE** *See Section 3 for additional listings.*

VOC emissions: CDPH Standard Method - Not tested

Sustainable forestry: FSC Certification - Mixed Credit

**CONSISTENCY WITH OTHER PROGRAMS**

Pre-checked for LEED v4 Option 1.

Pre-checked for LEED v4.1 Option 1.

## 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 3.0, available on the HPDC website at: [www.hpd-collaborative.org/hpd-3-0-standard](http://www.hpd-collaborative.org/hpd-3-0-standard)

|                                                                                                                                                                                                                                               |  |                                                    |                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------|-------------------------------|
| ULEF BIRCH PLYWOOD                                                                                                                                                                                                                            |  | %: 66.3080 - 66.9096                               |                               |
| PRODUCT THRESHOLD: 100 ppm                                                                                                                                                                                                                    |  | RESIDUALS AND IMPURITIES EVALUATION COMPLETED: 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. |  |                                                    |                               |
| OTHER MATERIAL NOTES: This is our engineered paneling platform.                                                                                                                                                                               |  |                                                    |                               |

| BALTIC BIRCH                                                                                                                                                                                                                                                                      |                           | ID: Biological Material |                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------|---------------------------------------------|
| HAZARD DATA SOURCE: HPDC Special Conditions Policy                                                                                                                                                                                                                                |                           |                         |                                             |
| %: 95.7500 - 97.9301                                                                                                                                                                                                                                                              | GreenScreen: Not Required | RC: None                | NANO: No MATERIAL ROLE: Structure component |
| HAZARD TYPE                                                                                                                                                                                                                                                                       | AGENCY AND LIST TITLES    |                         | WARNINGS                                    |
| Hazard Screening is not applicable to this Special Condition                                                                                                                                                                                                                      |                           |                         |                                             |
| BIOLOGICAL MATERIALS CATEGORY: Tree-based materials                                                                                                                                                                                                                               |                           |                         |                                             |
| INGREDIENT DESCRIPTION: Betula Spp                                                                                                                                                                                                                                                |                           |                         |                                             |
| MATERIAL CONTENT NOTES: This is natural wood, a biological material, used for the veneer layers in our plywood platform.                                                                                                                                                          |                           |                         |                                             |
| 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. |                           |                         |                                             |

|                                                           |                                                                         |                                           |                                                                                                |
|-----------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------------------|
| PHENOL-FORMALDEHYDE RESIN                                 |                                                                         | ID: 9003-35-4                             |                                                                                                |
| HAZARD DATA SOURCE: Pharos Chemical and Materials Library |                                                                         | HAZARD SCREENING DATE: 2025-10-22 8:09:33 |                                                                                                |
| %: 1.1762 - 1.1838                                        | GreenScreen: LT-P1                                                      | RC: None                                  | NANO: No SUBSTANCE ROLE: Binder                                                                |
| HAZARD TYPE                                               | LIST NAME AND SOURCE                                                    |                                           | WARNINGS                                                                                       |
| None found                                                | No warnings found on HPD Priority Hazard Lists                          |                                           |                                                                                                |
| ADDITIONAL LISTINGS                                       | LIST NAME AND SOURCE                                                    |                                           | NOTIFICATION                                                                                   |
| RESTRICTED LIST                                           | International Living Future Institute (ILFI)                            |                                           | Living Building Challenge 4.0 - Red List of Materials & Chemicals - Effective February 1, 2025 |
|                                                           | Red List substances to avoid in Living Building Challenge V4.0 projects |                                           |                                                                                                |

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

CHALK

ID: 13397-25-6

|                                                                                 |                          |                                                |                                                  |                               |
|---------------------------------------------------------------------------------|--------------------------|------------------------------------------------|--------------------------------------------------|-------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b>                |                          |                                                | HAZARD SCREENING DATE: <b>2025-10-22 8:09:33</b> |                               |
| %: <b>0.4895 - 0.4905</b>                                                       | GreenScreen: <b>NoGS</b> | RC: <b>None</b>                                | NANO: <b>No</b>                                  | SUBSTANCE ROLE: <b>Binder</b> |
| HAZARD TYPE                                                                     | LIST NAME AND SOURCE     | WARNINGS                                       |                                                  |                               |
| None found                                                                      |                          | No warnings found on HPD Priority Hazard Lists |                                                  |                               |
| ADDITIONAL LISTINGS                                                             | LIST NAME AND SOURCE     | NOTIFICATION                                   |                                                  |                               |
| None found                                                                      |                          | No listings found on Additional Hazard Lists   |                                                  |                               |
| SUBSTANCE NOTES: Component of glue used to adhere birch veneers in the plywood. |                          |                                                |                                                  |                               |

CALCIUM LIGNOSULFONATE

ID: 8061-52-7

|                                                                                 |                            |                                                |                                                  |                               |
|---------------------------------------------------------------------------------|----------------------------|------------------------------------------------|--------------------------------------------------|-------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b>                |                            |                                                | HAZARD SCREENING DATE: <b>2025-10-22 8:09:34</b> |                               |
| %: <b>0.2995 - 0.3005</b>                                                       | GreenScreen: <b>LT-UNK</b> | RC: <b>None</b>                                | NANO: <b>No</b>                                  | SUBSTANCE ROLE: <b>Binder</b> |
| HAZARD TYPE                                                                     | LIST NAME AND SOURCE       | WARNINGS                                       |                                                  |                               |
| None found                                                                      |                            | No warnings found on HPD Priority Hazard Lists |                                                  |                               |
| ADDITIONAL LISTINGS                                                             | LIST NAME AND SOURCE       | NOTIFICATION                                   |                                                  |                               |
| None found                                                                      |                            | No listings found on Additional Hazard Lists   |                                                  |                               |
| SUBSTANCE NOTES: Component of glue used to adhere birch veneers in the plywood. |                            |                                                |                                                  |                               |

AMMONIUM SULFATE

ID: 7783-20-2

|                                                                  |                                       |                               |                                                  |                               |
|------------------------------------------------------------------|---------------------------------------|-------------------------------|--------------------------------------------------|-------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                                       |                               | HAZARD SCREENING DATE: <b>2025-10-22 8:09:34</b> |                               |
| %: <b>0.0689 - 0.0711</b>                                        | GreenScreen: <b>LT-P1</b>             | RC: <b>None</b>               | NANO: <b>No</b>                                  | SUBSTANCE ROLE: <b>Binder</b> |
| HAZARD TYPE                                                      | LIST NAME AND SOURCE                  | WARNINGS                      |                                                  |                               |
| END                                                              | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor |                                                  |                               |

| ADDITIONAL LISTINGS                                                             | LIST NAME AND SOURCE                                    | NOTIFICATION                                                                                           |
|---------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| RESTRICTED LIST                                                                 | Green Science Policy Institute (GSPI)                   | GSPI - Six Classes Precautionary List<br><br>Antimicrobials                                            |
| RESTRICTED LIST                                                                 | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br><br>All Products |
| SUBSTANCE NOTES: Component of glue used to adhere birch veneers in the plywood. |                                                         |                                                                                                        |

TRITICUM VULGARE KERNEL FLOUR

ID: 130498-22-5

|                                                                  |                          |                                                  |                                                |                               |
|------------------------------------------------------------------|--------------------------|--------------------------------------------------|------------------------------------------------|-------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                          | HAZARD SCREENING DATE: <b>2025-10-22 8:09:35</b> |                                                |                               |
| %: <b>0.0245 - 0.0355</b>                                        | GreenScreen: <b>NoGS</b> | RC: <b>None</b>                                  | NANO: <b>No</b>                                | SUBSTANCE ROLE: <b>Filler</b> |
| HAZARD TYPE                                                      | LIST NAME AND SOURCE     |                                                  | WARNINGS                                       |                               |
| None found                                                       |                          |                                                  | No warnings found on HPD Priority Hazard Lists |                               |
| ADDITIONAL LISTINGS                                              | LIST NAME AND SOURCE     |                                                  | NOTIFICATION                                   |                               |
| None found                                                       |                          |                                                  | No listings found on Additional Hazard Lists   |                               |
| SUBSTANCE NOTES:                                                 |                          |                                                  |                                                |                               |

|                                                                                                                                                                                                                                                                                                                  |                                                    |                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-------------------------------|
| HARDWOOD WEAR LAYER                                                                                                                                                                                                                                                                                              |                                                    | %: 30.1339 - 30.4339          |
| PRODUCT THRESHOLD: 100 ppm                                                                                                                                                                                                                                                                                       | RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes | MATERIAL TYPE: Wood or Lumber |
| RESIDUALS AND IMPURITIES NOTES: This disclosure does not provide information on allergens, hyper-accumulation of metals, production of any toxic substances during normal metabolic activities, pesticides, or other potential hazards or sources of hazards which may be found in certain biological materials. |                                                    |                               |
| OTHER MATERIAL NOTES: FSC Mix Credit White Oak is used for the visible top layer of this engineered flooring product.                                                                                                                                                                                            |                                                    |                               |

WHITE OAKID: Biological Material

HAZARD DATA SOURCE: HPDC Special Conditions Policy

%: 100.0000 - 100.0000GreenScreen: Not RequiredRC: NoneNANO: NoMATERIAL ROLE: Structure component

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

Hazard Screening is not applicable to this Special Condition

BIOLOGICAL MATERIALS CATEGORY: Tree-based materials

INGREDIENT DESCRIPTION: Quercus alba

MATERIAL CONTENT NOTES: A clear grade of White Oak is used to make this product.

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.

CLEAR POLY TOPCOAT%: 1.7944 - 1.8946

PRODUCT THRESHOLD: 100 ppmRESIDUALS AND IMPURITIES EVALUATION COMPLETED: YesMATERIAL TYPE: Other Biological Material

RESIDUALS AND IMPURITIES NOTES: Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

OTHER MATERIAL NOTES: PolyWhey® uses whey proteins instead of toxic ingredients found in traditional wood finish. The result is a lasting, beautiful finish that is safe for people, pets and the environment.

WATERID: 7732-18-5

HAZARD DATA SOURCE: Pharos Chemical and Materials LibraryHAZARD SCREENING DATE: 2025-10-22 8:09:33

%: 76.4192 - 76.4198GreenScreen: BM-4RC: NoneNANO: NoSUBSTANCE ROLE: Diluent

HAZARD TYPE

LIST NAME AND SOURCE

WARNINGS

None foundNo warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS

LIST NAME AND SOURCE

NOTIFICATION

EXEMPTEuropean Union / European Commission (EU EC)EU - REACH ExemptionsExempted from REACH Annex IV listing due to intrinsic safety

SUBSTANCE NOTES:

WHEY PROTEINID: 91082-88-1

HAZARD DATA SOURCE: Pharos Chemical and Materials LibraryHAZARD SCREENING DATE: 2025-10-22 8:09:33

%: 16.2800 - 16.2836GreenScreen: NoGSRC: NoneNANO: NoSUBSTANCE ROLE: Water resistance

| HAZARD TYPE                                                                                                   | LIST NAME AND SOURCE | WARNINGS                                       |
|---------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------------|
| None found                                                                                                    |                      | No warnings found on HPD Priority Hazard Lists |
| ADDITIONAL LISTINGS                                                                                           | LIST NAME AND SOURCE | NOTIFICATION                                   |
| None found                                                                                                    |                      | No listings found on Additional Hazard Lists   |
| SUBSTANCE NOTES: PolyWhey® uses whey protein- a byproduct of cheese making- as the transformative ingredient. |                      |                                                |

SILICA GELID: 112926-00-8

|                                                                  |                            |                                                                                                         |                                                  |                                  |
|------------------------------------------------------------------|----------------------------|---------------------------------------------------------------------------------------------------------|--------------------------------------------------|----------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                            |                                                                                                         | HAZARD SCREENING DATE: <b>2025-10-22 8:09:34</b> |                                  |
| %: <b>2.8685 - 2.8687</b>                                        | GreenScreen: <b>LT-UNK</b> | RC: <b>None</b>                                                                                         | NANO: <b>No</b>                                  | SUBSTANCE ROLE: <b>Adsorbent</b> |
| HAZARD TYPE                                                      | LIST NAME AND SOURCE       | WARNINGS                                                                                                |                                                  |                                  |
| MAM                                                              | GHS - Japan                | H335 - May cause respiratory irritation [Specific target organ toxicity - Single exposure - Category 3] |                                                  |                                  |
| ADDITIONAL LISTINGS                                              | LIST NAME AND SOURCE       | NOTIFICATION                                                                                            |                                                  |                                  |
| None found                                                       |                            | No listings found on Additional Hazard Lists                                                            |                                                  |                                  |
| SUBSTANCE NOTES:                                                 |                            |                                                                                                         |                                                  |                                  |

DIPROPYLENE GLYCOL N-BUTYL ETHER (DPNB)ID: 29911-28-2

|                                                                  |                                       |                 |                                                  |                                |
|------------------------------------------------------------------|---------------------------------------|-----------------|--------------------------------------------------|--------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                                       |                 | HAZARD SCREENING DATE: <b>2025-10-22 8:09:34</b> |                                |
| %: <b>1.9178 - 1.9180</b>                                        | GreenScreen: <b>LT-UNK</b>            | RC: <b>None</b> | NANO: <b>No</b>                                  | SUBSTANCE ROLE: <b>Carrier</b> |
| HAZARD TYPE                                                      | LIST NAME AND SOURCE                  |                 | WARNINGS                                         |                                |
| EYE                                                              | GHS - New Zealand                     |                 | Eye irritation category 2                        |                                |
| ADDITIONAL LISTINGS                                              | LIST NAME AND SOURCE                  |                 | NOTIFICATION                                     |                                |
| RESTRICTED LIST                                                  | Green Science Policy Institute (GSPI) |                 | GSPI - Six Classes Precautionary List            |                                |
|                                                                  |                                       |                 | Some Solvents                                    |                                |
| SUBSTANCE NOTES:                                                 |                                       |                 |                                                  |                                |

ZINC OXIDEID: 1314-13-2

|                                                           |                   |                                           |          |                                       |
|-----------------------------------------------------------|-------------------|-------------------------------------------|----------|---------------------------------------|
| HAZARD DATA SOURCE: Pharos Chemical and Materials Library |                   | HAZARD SCREENING DATE: 2025-10-22 8:09:35 |          |                                       |
| %: 1.4383 - 1.4385                                        | GreenScreen: BM-1 | RC: None                                  | NANO: No | SUBSTANCE ROLE: Heat or UV stabilizer |

| HAZARD TYPE         | LIST NAME AND SOURCE                                     | WARNINGS                                                                                                                  |
|---------------------|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| END                 | TEDX - Potential Endocrine Disruptors                    | Potential Endocrine Disruptor                                                                                             |
| MUL                 | German FEA - Substances Hazardous to Waters              | Class 2 - Hazard to Waters                                                                                                |
| AQU                 | EU - GHS (H-Statements) Annex 6 Table 3-1                | H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]                             |
| AQU                 | EU - GHS (H-Statements) Annex 6 Table 3-1                | H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1] |
| MAM                 | GHS - Japan                                              | H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]          |
| AQU                 | GHS - New Zealand                                        | Hazardous to the aquatic environment - acute category 1                                                                   |
| AQU                 | GHS - Japan                                              | H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]                             |
| AQU                 | GHS - Japan                                              | H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1] |
| AQU                 | GHS - Australia                                          | H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1] |
| AQU                 | GHS - New Zealand                                        | Hazardous to the aquatic environment - chronic category 1                                                                 |
| REP                 | GHS - Japan                                              | H361 - Suspected of damaging fertility or the unborn child [Toxic to reproduction - Category 2]                           |
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                     | NOTIFICATION                                                                                                              |
| RESTRICTED LIST     | Green Science Policy Institute (GSPI)                    | GSPI - Six Classes Precautionary List<br><br>Antimicrobials                                                               |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CP II) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025<br><br>Children's Toy Products         |
| SUBSTANCE NOTES:    |                                                          |                                                                                                                           |

|                                                                  |                          |                                                  |                 |                                    |
|------------------------------------------------------------------|--------------------------|--------------------------------------------------|-----------------|------------------------------------|
| <b>PROPYLENE GLYCOL</b>                                          |                          |                                                  |                 | ID: <b>57-55-6</b>                 |
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                          | HAZARD SCREENING DATE: <b>2025-10-22 8:09:35</b> |                 |                                    |
| %: <b>1.0736 - 1.0738</b>                                        | GreenScreen: <b>BM-2</b> | RC: <b>None</b>                                  | NANO: <b>No</b> | SUBSTANCE ROLE: <b>Anti-freeze</b> |

| HAZARD TYPE         | LIST NAME AND SOURCE                  | WARNINGS                                                                                                                                                  |
|---------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| END                 | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor                                                                                                                             |
| MAM                 | GHS - Japan                           | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] |
| MAM                 | GHS - Japan                           | H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]                                          |
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                  | NOTIFICATION                                                                                                                                              |
| RESTRICTED LIST     | Green Science Policy Institute (GSPI) | GSPI - Six Classes Precautionary List                                                                                                                     |
|                     |                                       | Antimicrobials                                                                                                                                            |
| RESTRICTED LIST     | Green Science Policy Institute (GSPI) | GSPI - Six Classes Precautionary List                                                                                                                     |
|                     |                                       | Some Solvents                                                                                                                                             |
| SUBSTANCE NOTES:    |                                       |                                                                                                                                                           |

WEAR LAYER ADHESIVE

%: 0.7618 - 0.7620

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED: 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.

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.

POLYMETHYLENE POLYPHENYL ISOCYANATE (PRIMARY CASRN IS 9016-87-9)

ID: 247940-58-5

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2025-10-22 8:09:36

%: 64.0090 - 65.0010

GreenScreen: LT-UNK

RC: None

NANO: No

SUBSTANCE ROLE: Binder

| HAZARD TYPE         | LIST NAME AND SOURCE                                    | WARNINGS                                                                                                                                                  |
|---------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAN                 | MAK                                                     | Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels                                                                          |
| RES                 | MAK                                                     | Sensitizing Substance Sah - Danger of airway & skin sensitization                                                                                         |
| EYE                 | GHS - New Zealand                                       | Eye irritation category 2                                                                                                                                 |
| SKI                 | GHS - Australia                                         | H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]                                                                                    |
| EYE                 | GHS - Australia                                         | H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]                                                                    |
| CAN                 | GHS - Japan                                             | H351 - Suspected of causing cancer [Carcinogenicity - Category 2]                                                                                         |
| MAM                 | GHS - Japan                                             | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] |
| MAM                 | GHS - Australia                                         | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1]                   |
| MAM                 | GHS - New Zealand                                       | Specific target organ toxicity - repeated exposure category 1                                                                                             |
| MAM                 | GHS - Japan                                             | H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]                                          |
| MAM                 | GHS - New Zealand                                       | Acute inhalation toxicity category 2                                                                                                                      |
| MAM                 | Québec CSST - WHMIS 1988                                | Class D1A - Very toxic material causing immediate and serious toxic effects                                                                               |
| MAM                 | GHS - Australia                                         | H330 - Fatal if inhaled [Acute toxicity (inhalation) - Category 1 or 2]                                                                                   |
| MAM                 | GHS - Japan                                             | H330 - Fatal if inhaled [Acute toxicity (inhalation: dust, mist) - Category 2]                                                                            |
| CAN                 | GHS - Australia                                         | H351 - Suspected of causing cancer [Carcinogenicity - Category 2]                                                                                         |
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION                                                                                                                                              |
| RESTRICTED LIST     | Perkins+Will (P+W)                                      | P&W - Precautionary List                                                                                                                                  |
|                     |                                                         | Precautionary list of substances recommended for avoidance                                                                                                |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025                                                                        |
|                     |                                                         | All Products                                                                                                                                              |
| SUBSTANCE NOTES:    |                                                         |                                                                                                                                                           |

|                                                                  |                                              |                                                                                           |                                                  |                                |
|------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                                              |                                                                                           | HAZARD SCREENING DATE: <b>2025-10-22 8:09:36</b> |                                |
| %: <b>31.8995 - 31.9005</b>                                      | GreenScreen: <b>BM-4</b>                     | RC: <b>None</b>                                                                           | NANO: <b>No</b>                                  | SUBSTANCE ROLE: <b>Diluent</b> |
| HAZARD TYPE                                                      | LIST NAME AND SOURCE                         | WARNINGS                                                                                  |                                                  |                                |
| None found                                                       |                                              | No warnings found on HPD Priority Hazard Lists                                            |                                                  |                                |
| ADDITIONAL LISTINGS                                              | LIST NAME AND SOURCE                         | NOTIFICATION                                                                              |                                                  |                                |
| EXEMPT                                                           | European Union / European Commission (EU EC) | EU - REACH Exemptions<br><br>Exempted from REACH Annex IV listing due to intrinsic safety |                                                  |                                |
| SUBSTANCE NOTES:                                                 |                                              |                                                                                           |                                                  |                                |

DIPHENYLMETHANE DIISOCYANATE (MDI) - NON ISOMER SPECIFIC (PRIMARY CASRN IS 26447-40-5)ID: 327155-87-3

|                                                                  |                            |                 |                                                  |                                 |
|------------------------------------------------------------------|----------------------------|-----------------|--------------------------------------------------|---------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                            |                 | HAZARD SCREENING DATE: <b>2025-10-22 8:09:37</b> |                                 |
| %: <b>2.9999 - 3.0001</b>                                        | GreenScreen: <b>LT-UNK</b> | RC: <b>None</b> | NANO: <b>No</b>                                  | SUBSTANCE ROLE: <b>Adhesive</b> |

| HAZARD TYPE         | LIST NAME AND SOURCE                                    | WARNINGS                                                                                                                                |
|---------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| SKI                 | EU - GHS (H-Statements) Annex 6 Table 3-1               | H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]                                                                  |
| EYE                 | EU - GHS (H-Statements) Annex 6 Table 3-1               | H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]                                                  |
| CAN                 | EU - GHS (H-Statements) Annex 6 Table 3-1               | H351 - Suspected of causing cancer [Carcinogenicity - Category 2]                                                                       |
| SKI                 | GHS - New Zealand                                       | Skin irritation category 2                                                                                                              |
| EYE                 | GHS - New Zealand                                       | Eye irritation category 2                                                                                                               |
| SKI                 | GHS - Australia                                         | H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]                                                                  |
| EYE                 | GHS - Australia                                         | H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]                                                  |
| CAN                 | GHS - New Zealand                                       | Carcinogenicity category 2                                                                                                              |
| MAM                 | GHS - Australia                                         | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1] |
| MAM                 | GHS - New Zealand                                       | Specific target organ toxicity - repeated exposure category 1                                                                           |
| CAN                 | EU - Annex VI CMRs                                      | Carcinogen Category 2 - Suspected human Carcinogen                                                                                      |
| SKI                 | GHS - Japan                                             | H315 - Causes skin irritation [Skin corrosion / irritation - Category 2]                                                                |
| SKI                 | GHS - New Zealand                                       | Skin sensitisation category 1                                                                                                           |
| MAM                 | GHS - New Zealand                                       | Acute inhalation toxicity category 2                                                                                                    |
| MAM                 | GHS - Australia                                         | H330 - Fatal if inhaled [Acute toxicity (inhalation) - Category 1 or 2]                                                                 |
| MAM                 | GHS - Japan                                             | H330 - Fatal if inhaled [Acute toxicity (inhalation: dust, mist) - Category 2]                                                          |
| CAN                 | GHS - Australia                                         | H351 - Suspected of causing cancer [Carcinogenicity - Category 2]                                                                       |
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                                    | NOTIFICATION                                                                                                                            |
| RESTRICTED LIST     | Perkins+Will (P+W)                                      | P&W - Precautionary List                                                                                                                |
|                     |                                                         | Precautionary list of substances recommended for avoidance                                                                              |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025                                                      |
|                     |                                                         | All Products                                                                                                                            |
| RESTRICTED LIST     | Cradle to Cradle Products Innovation Institute (C2CPII) | C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025                                                      |
|                     |                                                         | Cosmetics and Personal Care Products                                                                                                    |
| SUBSTANCE NOTES:    |                                                         |                                                                                                                                         |

|                                                                  |                                   |                                                                                                                                                             |                                                  |                                |
|------------------------------------------------------------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                                   |                                                                                                                                                             | HAZARD SCREENING DATE: <b>2025-10-22 8:09:38</b> |                                |
| %: <b>0.0995 - 0.1000</b>                                        | GreenScreen: <b>BM-1</b>          | RC: <b>None</b>                                                                                                                                             | NANO: <b>No</b>                                  | SUBSTANCE ROLE: <b>Pigment</b> |
| HAZARD TYPE                                                      | LIST NAME AND SOURCE              | 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**                                                                                                                |                                                  |                                |
| EYE                                                              | GHS - New Zealand                 | Eye irritation category 2**                                                                                                                                 |                                                  |                                |
| CAN                                                              | GHS - New Zealand                 | Carcinogenicity category 2**                                                                                                                                |                                                  |                                |
| CAN                                                              | GHS - Japan                       | H351 - Suspected of causing cancer [Carcinogenicity - Category 2]**                                                                                         |                                                  |                                |
| MAM                                                              | GHS - Japan                       | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]** |                                                  |                                |
| PHY                                                              | GHS - Japan                       | H251 - Self-heating;; may catch fire [Self-heating substances and mixtures - Category 1]**                                                                  |                                                  |                                |
| ADDITIONAL LISTINGS                                              | LIST NAME AND SOURCE              | NOTIFICATION                                                                                                                                                |                                                  |                                |
| None found                                                       |                                   | No listings found on Additional Hazard Lists                                                                                                                |                                                  |                                |

SUBSTANCE NOTES: \*\*Form-Specific Hazard: This substance's GreenScreen Benchmark or List Translator score and the applicable hazards are related to particulate inhalation, which is expected to occur only during manufacture, installation, maintenance, or demolition, due to activities such as sawing, sanding, grinding, or intensive cleaning. See HPDC's Special Conditions policy for more information. Manufacturer's Safety Data Sheet (SDS), if applicable, may offer occupational health and safety information.



Section 3: 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                                | CDPH Standard Method - Not tested |                            |
|----------------------------------------------|-----------------------------------|----------------------------|
| COMPLIANCE TYPE: Self-declaration            | ISSUE DATE: 2025-10-22            | EXPIRY DATE: No expiration |
| CERTIFIER/VERIFIER/TESTING LAB/AUDITOR: None |                                   |                            |
| COMPLIANCE DETAILS:                          |                                   |                            |
| COMPLIANCE SCOPE:                            |                                   |                            |
| APPLICABLE FACILITIES: All                   |                                   |                            |
| COMPLIANCE URL:                              |                                   |                            |
| COMPLIANCE NOTES:                            |                                   |                            |

| SUSTAINABLE FORESTRY                                                                                                                                                                                                                                                              | FSC Certification - Mixed Credit |                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------|
| COMPLIANCE TYPE: Third-party certification                                                                                                                                                                                                                                        | ISSUE DATE: 2025-09-11           | EXPIRY DATE: 2030-09-10 |
| CERTIFIER/VERIFIER/TESTING LAB/AUDITOR: GFA                                                                                                                                                                                                                                       |                                  |                         |
| COMPLIANCE DETAILS:                                                                                                                                                                                                                                                               |                                  |                         |
| COMPLIANCE SCOPE: Product                                                                                                                                                                                                                                                         |                                  |                         |
| APPLICABLE FACILITIES: All                                                                                                                                                                                                                                                        |                                  |                         |
| COMPLIANCE URL: <a href="https://pioneermillworks.com/sites/default/files/inline-files/RSP_CERT_FSC_COC_MS_Annex_Pioneer_Millworks_008489_25_e.pdf">https://pioneermillworks.com/sites/default/files/inline-files/RSP_CERT_FSC_COC_MS_Annex_Pioneer_Millworks_008489_25_e.pdf</a> |                                  |                         |
| 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

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 a 100% 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, NY 14425**  
COUNTRY: **United States**

WEBSITE: **<https://pionermillworks.com/>**  
CONTACT NAME: **Alex Monachino**  
TITLE: **Product Manager**  
PHONE: **5855309582**  
EMAIL: **[alex@pionermillworks.com](mailto:alex@pionermillworks.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

**NoGS** No GreenScreen.

GreenScreen Benchmark scores sometimes also carry subscripts, which provide more context for how the score was determined. These are DG (data gap), TP (transformation product), and CoHC (chemical of high concern). For more information, see 2.2.2.4 GreenScreen® for Safer Chemicals, [www.greenscreenchemicals.org](http://www.greenscreenchemicals.org), and Best Practices for Hazard Screening on the HPDC website ([hpd-collaborative.org](http://hpd-collaborative.org)).

### 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.*