

HPD UNIQUE IDENTIFIER: 31342

CLASSIFICATION: 09 64 00 Wood Flooring

PRODUCT DESCRIPTION: The product "FREB-HB-CHA" has a thickness of 14mm and a width of 120mm. This engineered flooring product constitutes a base ply and a European Oak hardwood top layer laminated using resin. The product is finished with a top coat. This product can be installed in various ways depending on the site conditions and can be used in residential and commercial spaces. For more information on the product, please visit - [www.allwoodgrp.com](http://www.allwoodgrp.com)

Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

| Inventory Reporting Format  | Threshold Level   | Residuals/Impurities Evaluation   | For all contents above the threshold, the manufacturer has:  |
|---|---|---|--|
| <input type="radio"/> Nested Materials Method<br><input type="radio"/> Basic Method                       | <input type="radio"/> 100 ppm<br><input checked="" type="radio"/> 1,000 ppm<br><input type="radio"/> Per GHS SDS<br><input type="radio"/> Other | Completed in 4 of 4 Materials<br><br>Explanation(s) provided for Residuals/Impurities?<br><input checked="" type="radio"/> Yes <input type="radio"/> No | Characterized <input checked="" type="radio"/> Yes <input type="radio"/> No<br><br>Provided weight and role.<br><br>Screened <input checked="" type="radio"/> Yes <input type="radio"/> No<br><br>Provided screening results using HPDC-approved methods.<br><br>Identified <input checked="" type="radio"/> Yes <input type="radio"/> No<br><br>Provided name and CAS RN or other identifier. |
| Threshold Disclosed Per<br><br><input type="radio"/> Material<br><input checked="" type="radio"/> Product |   |   |  |

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

PLYWOOD [ WOOD ] VENEER [ VENEER ] RESIN [ GLYCERIDES, C16-18 MONO-, DI- AND TRI-, HYDROGENATED, CITRATES, ESTERS WITH POLYGLYCEROL PALMITATE STEARATE, SODIUM SALTS (AVERAGE MW 937 G/MOL) LT-P1 | MUL LIMESTONE BM-3dg WATER BM-4 ACETIC ACID ETHENYL ESTER, POLYMER WITH ETHENOL LT-UNK QUARTZ BM-1 | CAN | MAM | GEN DOCUSATE SODIUM LT-P1 | MUL | SKI | EYE | REP ] UV TOPCOAT [ POLY(OXY(METHYL-1,2-ETHANEDIYL)), ALPHA,ALPHA'-(2,2-DIMETHYL-1,3-PROPANEDIYL)BIS(OMEGA-((1-OXO-2-PROPEN-1-YL)OXY)- LT-P1 | MUL | SKI | EYE 1,6-HEXANEDIOL DIACRYLATE LT-P1 | SKI | MUL | EYE | AQU TETRAHYDROFURFURYL ACRYLATE BM-1 | MUL HYDROXYCYCLOHEXYL PHENYL KETONE LT-UNK | EYE ISODECYL ACRYLATE LT-P1 | MUL TRIPROPYLENE GLYCOL DIACRYLATE LT-P1 | SKI | MUL | EYE | AQU TALC BM-1 | CAN | MAM BENZOYL ISOPROPANOL LT-UNK | AQU BUTYL ACETATE LT-UNK | EYE | PHY QUARTZ BM-1 | CAN | MAM | GEN BIS-TRIMETHYLBENZOYL PHENYLPHOSPHINE OXIDE LT-UNK 2-METHYL-1,4-HYDROQUINONE LT-P1 | MUL | SKI | EYE | MAM ]

Number of Greenscreen BM-4/BM3 contents ... 2

Contents highest-concern GreenScreen score(s) (BM-1, LT-1, LT-P1) ... LT-P1, BM-1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

Special Conditions applied: [BiologicalMaterial]

Impurities listed above the threshold by Quartz or Pharos databases are noted in this HPD. Residuals and impurities are considered following the HPD Best Practice Guidance, 10.02.17, version 1 "The threshold applied to Residuals and Impurities (R/I) is the same as that applied to intentionally added substances, i.e., 100 ppm or 1000 ppm. Residuals and impurities below the declared Inventory Threshold do not need to be reported on the HPD." This includes average data declared in the common product database or peer-reviewed scientific articles. For this product, no actual material has been tested. Therefore, residuals and impurities are for informational purposes only and are not a guarantee of presence in the actual building material. Pharos and PubChem (formerly TOXNET) are the main databases for researching potential residuals and impurities. Any R/I above the threshold shall be listed on the HPD; otherwise, if none are listed, then no residuals or impurities are common in that substance above the threshold. This HPD was produced using primary information from the manufacturer, including CAS numbers and SDS when needed. Every effort has been made to report the substances in this product by the manufacturer to the listed threshold. This is a voluntary, self-reported effort. Any errors or omissions shall be considered a human error and therefore reported to the manufacturer. The manufacturer shall not be liable for omissions.

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: CDPH Standard Method - Not tested

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Option 1.

Pre-checked for LEED v4.1 Option 1.

Third Party Verified?

Yes

No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2023-02-13

PUBLISHED DATE: 2023-02-13

EXPIRY DATE: 2026-02-13

## 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 2.3, available on the HPDC website at: [www.hpd-collaborative.org/hpd-2-3-standard](http://www.hpd-collaborative.org/hpd-2-3-standard)

### PLYWOOD

%: 71.0000

PRODUCT THRESHOLD: 1000 ppm    RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes    MATERIAL TYPE: Wood or Lumber

RESIDUALS AND IMPURITIES NOTES: Impurities listed above the threshold by Quartz or Pharos databases are noted in this HPD. Residuals and impurities are considered following the HPD Best Practice Guidance, 10.02.17, version 1 “The threshold applied to Residuals and Impurities (R/I) is the same as that applied to intentionally added substances, i.e., 100 ppm or 1000 ppm. Residuals and impurities below the declared Inventory Threshold do not need to be reported on the HPD.” This includes average data declared in the common product database or peer-reviewed scientific articles. For this product, no actual material has been tested. Therefore, residuals and impurities are for informational purposes only and are not a guarantee of presence in the actual building material. Pharos and PubChem (formerly TOXNET) are the main databases for researching potential residuals and impurities. Any R/I above the threshold shall be listed on the HPD; otherwise, if none are listed, then no residuals or impurities are common in that substance above the threshold. No residuals or impurities are listed above the threshold for this product per the Pharos database.

OTHER MATERIAL NOTES: The eucalyptus wood is procured from the source and the plywood is made at the same facility.

### WOOD

ID: Biological Material

HAZARD DATA SOURCE: [HPDC Special Conditions Policy](#)

%: 100.0000    GreenScreen: Not Required    RC: None    NANO: No    MATERIAL ROLE: Filler

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|------------------------|----------|
|-------------|------------------------|----------|

Hazard Screening is not applicable to this Special Condition

BIOLOGICAL MATERIALS CATEGORY: Tree-based materials

INGREDIENT DESCRIPTION: Eucalyptus

MATERIAL CONTENT NOTES: 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.

### VENEER

%: 21.0000

PRODUCT THRESHOLD: 1000 ppm    RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes    MATERIAL TYPE: Wood or Lumber

RESIDUALS AND IMPURITIES NOTES: Impurities listed above the threshold by Quartz or Pharos databases are noted in this HPD. Residuals and impurities are considered following the HPD Best Practice Guidance, 10.02.17, version 1 “The threshold applied to Residuals and Impurities (R/I) is the same as that applied to intentionally added substances, i.e., 100 ppm or 1000 ppm. Residuals and impurities below the declared Inventory Threshold do not need to be reported on the HPD.” This includes average data declared in the common product database or peer-reviewed scientific articles. For this product, no actual material has been tested. Therefore, residuals and impurities are for informational purposes only and are not a guarantee of presence in the actual building material. Pharos and PubChem (formerly TOXNET) are the main databases for researching potential residuals and impurities. Any R/I above the threshold shall be listed on the HPD; otherwise, if none are listed, then no residuals or impurities are common in that substance above the threshold. No residuals or impurities are listed above the threshold for this product per the Pharos database.

OTHER MATERIAL NOTES: The veneers are sawn from logs at the facility.

**VENEER**ID: **Biological Material**HAZARD DATA SOURCE: **HPDC Special Conditions Policy**%: **100.0000**      GreenScreen: **Not Required**      RC: **None**      NANO: **No**      MATERIAL ROLE: **Filler**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|------------------------|----------|
|-------------|------------------------|----------|

Hazard Screening is not applicable to this Special Condition

BIOLOGICAL MATERIALS CATEGORY: **Tree-based materials**INGREDIENT DESCRIPTION: **European Oak**

**MATERIAL CONTENT NOTES:** 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.

**RESIN**%: **5.0000**PRODUCT THRESHOLD: **1000 ppm**      RESIDUALS AND IMPURITIES EVALUATION COMPLETED: **Yes**      MATERIAL TYPE: **Polymeric Material**

**RESIDUALS AND IMPURITIES NOTES:** Impurities listed above the threshold by Quartz or Pharos databases are noted in this HPD. Residuals and impurities are considered following the HPD Best Practice Guidance, 10.02.17, version 1 "The threshold applied to Residuals and Impurities (R/I) is the same as that applied to intentionally added substances, i.e., 100 ppm or 1000 ppm. Residuals and impurities below the declared Inventory Threshold do not need to be reported on the HPD." This includes average data declared in the common product database or peer-reviewed scientific articles. For this product, no actual material has been tested. Therefore, residuals and impurities are for informational purposes only and are not a guarantee of presence in the actual building material. Pharos and PubChem (formerly TOXNET) are the main databases for researching potential residuals and impurities. Any R/I above the threshold shall be listed on the HPD; otherwise, if none are listed, then no residuals or impurities are common in that substance above the threshold. No residuals or impurities are listed above the threshold for this product per the Pharos database.

**OTHER MATERIAL NOTES:** This material consists of two proprietary ingredients, which do not currently have a CAS number. Efforts were made to understand these ingredients better, but retrieving this information was not possible. Since, no hazards were mentioned for these ingredients in the product SDS, it is assumed to be a safe product.

**GLYCERIDES, C16-18 MONO-, DI- AND TRI-, HYDROGENATED, CITRATES, ESTERS WITH POLYGLYCEROL PALMITATE STEARATE, SODIUM SALTS (AVERAGE MW 937 G/MOL)**

ID: **1208985-39-0**HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**      HAZARD SCREENING DATE: **2023-02-13 0:33:34**%: **20.0000 - 40.0000**      GreenScreen: **LT-P1**      RC: **None**      NANO: **No**      SUBSTANCE ROLE: **Emulsifier**

| HAZARD TYPE | LIST NAME AND SOURCE | WARNINGS |
|-------------|----------------------|----------|
|-------------|----------------------|----------|

|     |   |                            |
|-----|---|----------------------------|
| MUL | German FEA - Substances Hazardous to Waters | Class 2 - Hazard to Waters |
|-----|---|----------------------------|

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE | NOTIFICATION |
|---------------------|----------------------|--------------|
|---------------------|----------------------|--------------|

|            |  |  |
|------------|--|--|
| None found |  | No listings found on Additional Hazard Lists |
|------------|--|--|

**SUBSTANCE NOTES:** This product is mentioned in the product SDS as "Synthetic co-polymer emulsifier" and more information is not available since it is a proprietary ingredient for the manufacturer of this product. Hence, a suitable proxy substance - Glycerides has been selected as an ingredient for this product.

**LIMESTONE**ID: **1317-65-3**

|  |                            |  |                 |                               |
|--|----------------------------|--|-----------------|-------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                            | HAZARD SCREENING DATE: <b>2023-02-13 0:33:33</b> |                 |                               |
| %: <b>20.0000 - 40.0000</b>                                      | GreenScreen: <b>BM-3dg</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:   |                            |  |                 |                               |

**WATER** ID: **7732-18-5**

|  |  |   |                 |                                |
|--|--|---|-----------------|--------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |  | HAZARD SCREENING DATE: <b>2023-02-13 0:33:35</b>  |                 |                                |
| %: <b>10.0000 - 30.0000</b>                                      | GreenScreen: <b>BM-4</b>                     | RC: <b>None</b>   | NANO: <b>No</b> | SUBSTANCE ROLE: <b>Solvent</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:   |  |   |                 |                                |

**ACETIC ACID ETHENYL ESTER, POLYMER WITH ETHENOL** ID: **25213-24-5**

|  |                            |  |                 |                                 |
|--|----------------------------|--|-----------------|---------------------------------|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                            | HAZARD SCREENING DATE: <b>2023-02-13 0:33:35</b> |                 |                                 |
| %: <b>1.0000 - 10.0000</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   |                 |                                 |
| 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:   |                            |  |                 |                                 |

**QUARTZ** ID: **14808-60-7**

|  |                          |  |                 |  |
|--|--------------------------|--|-----------------|--|
| HAZARD DATA SOURCE: <b>Pharos Chemical and Materials Library</b> |                          | HAZARD SCREENING DATE: <b>2023-02-13 0:33:34</b> |                 |  |
| %: <b>Impurity/Residual</b>                                      | GreenScreen: <b>BM-1</b> | RC: <b>None</b>                                  | NANO: <b>No</b> | SUBSTANCE ROLE: <b>Impurity/Residual</b> |

| HAZARD TYPE         | LIST NAME AND SOURCE              | WARNINGS  |
|---------------------|-----------------------------------|---|
| CAN                 | US CDC - Occupational Carcinogens | Occupational Carcinogen   |
| CAN                 | CA EPA - Prop 65                  | Carcinogen - specific to chemical form or exposure route  |
| CAN                 | US NIH - Report on Carcinogens    | Known to be Human Carcinogen (respirable size - occupational setting)   |
| CAN                 | MAK                               | Carcinogen Group 1 - Substances that cause cancer in man  |
| CAN                 | IARC                              | Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources   |
| CAN                 | IARC                              | Group 1 - Agent is Carcinogenic to humans   |
| CAN                 | GHS - Japan                       | H350 - May cause cancer [Carcinogenicity - Category 1A]   |
| CAN                 | GHS - Australia                   | H350i - May cause cancer by inhalation [Carcinogenicity - Category 1A or 1B]  |
| CAN                 | GHS - New Zealand                 | Carcinogenicity category 1  |
| MAM                 | GHS - Japan                       | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] |
| GEN                 | GHS - Japan                       | H341 - Suspected of causing genetic defects [Germ cell mutagenicity - 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   |
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE              | NOTIFICATION  |
| None found          |                                   | No listings found on Additional Hazard Lists  |

SUBSTANCE NOTES: This impurity was found in the Pharos database and hence noted here.

## DOCUSATE SODIUM

ID: 577-11-7

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2023-02-13 0:33:36

#: 0.0000 - 1.0000 GreenScreen: LT-P1 RC: None NANO: No SUBSTANCE ROLE: Surfactant

| HAZARD TYPE         | LIST NAME AND SOURCE                        | WARNINGS  |
|---------------------|---|---|
| MUL                 | German FEA - Substances Hazardous to Waters | Class 2 - Hazard to Waters  |
| SKI                 | GHS - New Zealand                           | Skin irritation category 2  |
| SKI                 | GHS - Australia                             | H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]                          |
| EYE                 | GHS - New Zealand                           | Serious eye damage category 1   |
| SKI                 | GHS - Japan                                 | H315 - Causes skin irritation [Skin corrosion / irritation - Category 2]                        |
| REP                 | GHS - Japan                                 | H361 - Suspected of damaging fertility or the unborn child [Toxic to reproduction - Category 2] |
| EYE                 | GHS - Australia                             | H318 - Causes serious eye damage [Serious eye damage/eye irritation - Category 1]               |
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                        | NOTIFICATION  |
| None found          |   | No listings found on Additional Hazard Lists  |

**SUBSTANCE NOTES:** This product is mentioned in the product SDS as "Surfactant" and more information is not available since it is a proprietary ingredient for the manufacturer of this product. Hence, a suitable proxy substance - Docusate Sodium has been selected as an ingredient for this product.

## UV TOPCOAT

#: 3.0000

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes MATERIAL TYPE: Polymeric Material

**RESIDUALS AND IMPURITIES NOTES:** Impurities listed above the threshold by Quartz or Pharos databases are noted in this HPD. Residuals and impurities are considered following the HPD Best Practice Guidance, 10.02.17, version 1 "The threshold applied to Residuals and Impurities (R/I) is the same as that applied to intentionally added substances, i.e., 100 ppm or 1000 ppm. Residuals and impurities below the declared Inventory Threshold do not need to be reported on the HPD." This includes average data declared in the common product database or peer-reviewed scientific articles. For this product, no actual material has been tested. Therefore, residuals and impurities are for informational purposes only and are not a guarantee of presence in the actual building material. Pharos and PubChem (formerly TOXNET) are the main databases for researching potential residuals and impurities. Any R/I above the threshold shall be listed on the HPD; otherwise, if none are listed, then no residuals or impurities are common in that substance above the threshold. No residuals or impurities are listed above the threshold for this product per the Pharos database.

**OTHER MATERIAL NOTES:** The UV Topcoat is procured from a supplier in the region and all ingredients of this product have been included here.

**POLY(OXY(METHYL-1,2-ETHANEDIYL)), ALPHA,ALPHA'-(2,2-DIMETHYL-1,3-PROPANEDIYL)BIS(OMEGA-((1-OXO-2-PROPEN-1-YL)OXY)-**

ID: 84170-74-1

| HAZARD DATA SOURCE:  | Pharos Chemical and Materials Library       | HAZARD SCREENING DATE:     | 2023-02-13 0:33:34               |
|----------------------|---|----------------------------|----------------------------------|
| #: 25.0000 - 40.0000 | GreenScreen: LT-P1                          | RC: None                   | NANO: No SUBSTANCE ROLE: Monomer |
| HAZARD TYPE          | LIST NAME AND SOURCE                        | WARNINGS                   |                                  |
| MUL                  | German FEA - Substances Hazardous to Waters | Class 2 - Hazard to Waters |                                  |
| SKI                  | GHS - New Zealand                           | Skin irritation category 2 |                                  |
| EYE                  | GHS - New Zealand                           | Eye irritation category 2  |                                  |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE | NOTIFICATION                                 |
|---------------------|----------------------|--|
| None found          |                      | No listings found on Additional Hazard Lists |

SUBSTANCE NOTES:

**1,6-HEXANEDIOL DIACRYLATE**

ID: 13048-33-4

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-02-13 0:33:35**

%: **10.0000 - 25.0000** GreenScreen: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Binder**

| HAZARD TYPE | LIST NAME AND SOURCE                        | WARNINGS  |
|-------------|---|---|
| SKI         | MAK   | Sensitizing Substance Sh - Danger of skin sensitization   |
| MUL         | German FEA - Substances Hazardous to Waters | Class 2 - Hazard to Waters  |
| 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]                                    |
| 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]                                    |
| SKI         | GHS - New Zealand                           | Skin sensitisation 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] |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE | NOTIFICATION                                 |
|---------------------|----------------------|--|
| None found          |                      | No listings found on Additional Hazard Lists |

SUBSTANCE NOTES:

**TETRAHYDROFURFURYL ACRYLATE**

ID: 2399-48-6

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-02-13 0:33:36**

%: **1.0000 - 10.0000** GreenScreen: **BM-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Monomer**

| HAZARD TYPE | LIST NAME AND SOURCE                        | WARNINGS                          |
|-------------|---|-----------------------------------|
| MUL         | German FEA - Substances Hazardous to Waters | Class 3 - Severe Hazard to Waters |



| ADDITIONAL LISTINGS | LIST NAME AND SOURCE | NOTIFICATION                                 |
|---------------------|----------------------|--|
| None found          |                      | No listings found on Additional Hazard Lists |

SUBSTANCE NOTES:

**HYDROXYCYCLOHEXYL PHENYL KETONE**

ID: 947-19-3

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-02-13 0:33:40**

%: **1.0000 - 10.0000** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Binder**

| HAZARD TYPE | LIST NAME AND SOURCE | WARNINGS |
|-------------|----------------------|----------|
|-------------|----------------------|----------|

|     |                   |                           |
|-----|-------------------|---------------------------|
| EYE | GHS - New Zealand | Eye irritation category 2 |
|-----|-------------------|---------------------------|

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE | NOTIFICATION |
|---------------------|----------------------|--------------|
|---------------------|----------------------|--------------|

|            |  |  |
|------------|--|--|
| None found |  | No listings found on Additional Hazard Lists |
|------------|--|--|

SUBSTANCE NOTES:

**ISODECYL ACRYLATE**

ID: 1330-61-6

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-02-13 0:33:39**

%: **1.0000 - 10.0000** GreenScreen: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Diluent**

| HAZARD TYPE | LIST NAME AND SOURCE | WARNINGS |
|-------------|----------------------|----------|
|-------------|----------------------|----------|

|     |   |                            |
|-----|---|----------------------------|
| MUL | German FEA - Substances Hazardous to Waters | Class 2 - Hazard to Waters |
|-----|---|----------------------------|

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE | NOTIFICATION |
|---------------------|----------------------|--------------|
|---------------------|----------------------|--------------|

|                 |                                       |  |
|-----------------|---------------------------------------|--|
| RESTRICTED LIST | Green Science Policy Institute (GSPI) | GSPI - Six Classes of Problematic Chemicals<br>Some Solvents |
|-----------------|---------------------------------------|--|

SUBSTANCE NOTES:

**TRIPROPYLENE GLYCOL DIACRYLATE**

ID: 42978-66-5

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-02-13 0:33:38**

%: **1.0000 - 10.0000** GreenScreen: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Plasticizer**

| HAZARD TYPE | LIST NAME AND SOURCE                        | WARNINGS   |
|-------------|---|--|
| SKI         | MAK   | Sensitizing Substance Sh - Danger of skin sensitization  |
| MUL         | German FEA - Substances Hazardous to Waters | Class 2 - Hazard to Waters   |
| 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]                               |
| AQU         | EU - GHS (H-Statements) Annex 6 Table 3-1   | H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - 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]                               |
| SKI         | GHS - New Zealand                           | Skin sensitisation category 1  |
| AQU         | GHS - New Zealand                           | Hazardous to the aquatic environment - chronic category 2  |
| AQU         | GHS - Australia                             | H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2] |
| AQU         | GHS - Japan                                 | H401 - Toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 2]                             |
| AQU         | GHS - Japan                                 | H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2] |
| EYE         | GHS - Japan                                 | H319 - Causes serious eye irritation [Serious eye damage / eye irritation - Category 2A]                             |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE | NOTIFICATION                                 |
|---------------------|----------------------|--|
| None found          |                      | No listings found on Additional Hazard Lists |

SUBSTANCE NOTES:

**TALC**

ID: 14807-96-6

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-02-13 0:33:37**

%: **1.0000 - 10.0000** GreenScreen: **BM-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Filler**

| HAZARD TYPE         | LIST NAME AND SOURCE | WARNINGS  |
|---------------------|----------------------|---|
| CAN                 | MAK                  | Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification  |
| CAN                 | IARC                 | Group 2b - Possibly carcinogenic to humans  |
| 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  |
| None found          |                      | No listings found on Additional Hazard Lists  |
| SUBSTANCE NOTES:    |                      |   |

### BENZOYL ISOPROPANOL

ID: 7473-98-5

| HAZARD DATA SOURCE: | Pharos Chemical and Materials Library | HAZARD SCREENING DATE:                                    | 2023-02-13 0:33:37 |                                |  |
|---------------------|---------------------------------------|---|--------------------|--------------------------------|--|
| %: 1.0000 - 10.0000 | GreenScreen: LT-UNK                   | RC: None  | NANO: No           | SUBSTANCE ROLE: Photoinitiator |  |
| HAZARD TYPE         | LIST NAME AND SOURCE                  | WARNINGS  |                    |                                |  |
| AQU                 | GHS - New Zealand                     | Hazardous to the aquatic environment - acute category 1   |                    |                                |  |
| AQU                 | GHS - New Zealand                     | Hazardous to the aquatic environment - chronic category 1 |                    |                                |  |
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                  | NOTIFICATION  |                    |                                |  |
| None found          |                                       | No listings found on Additional Hazard Lists              |                    |                                |  |
| SUBSTANCE NOTES:    |                                       |   |                    |                                |  |

### BUTYL ACETATE

ID: 123-86-4

| HAZARD DATA SOURCE: | Pharos Chemical and Materials Library | HAZARD SCREENING DATE:   | 2023-02-13 0:33:36 |                         |  |
|---------------------|---------------------------------------|--|--------------------|-------------------------|--|
| %: 1.0000 - 10.0000 | GreenScreen: LT-UNK                   | RC: None   | NANO: No           | SUBSTANCE ROLE: Solvent |  |
| HAZARD TYPE         | LIST NAME AND SOURCE                  | WARNINGS   |                    |                         |  |
| EYE                 | GHS - New Zealand                     | Eye irritation category 2  |                    |                         |  |
| PHY                 | GHS - New Zealand                     | Flammable liquids category 2   |                    |                         |  |
| PHY                 | GHS - Japan                           | H225 - Highly flammable liquid and vapour [Flammable liquids - Category 2] |                    |                         |  |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE                  | NOTIFICATION   |
|---------------------|---------------------------------------|--|
| RESTRICTED LIST     | Green Science Policy Institute (GSPI) | GSPI - Six Classes of Problematic Chemicals<br><br>Some Solvents |

SUBSTANCE NOTES:

## QUARTZ

ID: 14808-60-7

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-02-13 0:33:38**

| %: <b>Impurity/Residual</b> | GreenScreen: <b>BM-1</b>          | RC: <b>None</b>   | NANO: <b>No</b> | SUBSTANCE ROLE: <b>Impurity/Residual</b> |
|-----------------------------|-----------------------------------|---|-----------------|--|
| HAZARD TYPE                 | LIST NAME AND SOURCE              | WARNINGS  |                 |  |
| CAN                         | US CDC - Occupational Carcinogens | Occupational Carcinogen   |                 |  |
| CAN                         | CA EPA - Prop 65                  | Carcinogen - specific to chemical form or exposure route  |                 |  |
| CAN                         | US NIH - Report on Carcinogens    | Known to be Human Carcinogen (respirable size - occupational setting)   |                 |  |
| CAN                         | MAK                               | Carcinogen Group 1 - Substances that cause cancer in man  |                 |  |
| CAN                         | IARC                              | Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources   |                 |  |
| CAN                         | IARC                              | Group 1 - Agent is Carcinogenic to humans   |                 |  |
| CAN                         | GHS - Japan                       | H350 - May cause cancer [Carcinogenicity - Category 1A]   |                 |  |
| CAN                         | GHS - Australia                   | H350i - May cause cancer by inhalation [Carcinogenicity - Category 1A or 1B]  |                 |  |
| CAN                         | GHS - New Zealand                 | Carcinogenicity category 1  |                 |  |
| MAM                         | GHS - Japan                       | H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1] |                 |  |
| GEN                         | GHS - Japan                       | H341 - Suspected of causing genetic defects [Germ cell mutagenicity - 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   |                 |  |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE | NOTIFICATION                                 |
|---------------------|----------------------|--|
| None found          |                      | No listings found on Additional Hazard Lists |

SUBSTANCE NOTES: This impurity was found in the Pharos database and hence noted here.

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-02-13 0:33:38**

%: **0.1000 - 1.0000** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Stabilizer**

| 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:

**2-METHYL-1,4-HYDROQUINONE**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-02-13 0:33:39**

%: **0.1000 - 1.0000** GreenScreen: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Enzyme**

| HAZARD TYPE | LIST NAME AND SOURCE                        | WARNINGS                       |
|-------------|---|--------------------------------|
| MUL         | German FEA - Substances Hazardous to Waters | Class 2 - Hazard to Waters     |
| SKI         | GHS - New Zealand                           | Skin irritation category 2     |
| EYE         | GHS - New Zealand                           | Eye irritation category 2      |
| MAM         | GHS - New Zealand                           | Acute oral toxicity category 3 |

| ADDITIONAL LISTINGS | LIST NAME AND SOURCE | NOTIFICATION                                 |
|---------------------|----------------------|--|
| None found          |                      | No listings found on Additional Hazard Lists |

SUBSTANCE NOTES: This enzyme is used as an inhibitor in this material

### 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  | CDPH Standard Method - Not tested |                        |
|--|-----------------------------------|------------------------|
| CERTIFYING PARTY: Self-declared  | ISSUE DATE: 2023-01-31            | CERTIFIER OR LAB: None |
| APPLICABLE FACILITIES: The facility in Jiaxing city has been certified for VOC emissions | EXPIRY DATE:                      |                        |
| 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

No accessories were added because this must be installed by professional installers who will use their tools and methods. Site-specific conditions determine exact methods. Therefore, additional tools and products are unknown. For manufacturer-specific installation instructions, please visit the website: <https://allwoodgrp.com/home-mobile/>

**MANUFACTURER INFORMATION**

**MANUFACTURER:** Allwood Group  
**ADDRESS:** PO Box 1788  
 Tualatin Oregon 97062, USA  
**WEBSITE:** <https://allwoodgrp.com/>

**CONTACT NAME:** Scott Petersen  
**TITLE:** Managing Partner  
**PHONE:** 503-255-7976  
**EMAIL:** [scott@allwoodgrp.com](mailto:scott@allwoodgrp.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**

|                                       |   |  |
|---------------------------------------|---|--|
| <b>AQU</b> Aquatic toxicity           | <b>LAN</b> Land toxicity                          | <b>PHY</b> Physical hazard (flammable or reactive)   |
| <b>CAN</b> Cancer                     | <b>MAM</b> Mammalian/systemic/organ toxicity      | <b>REP</b> Reproductive                              |
| <b>DEV</b> Developmental toxicity     | <b>MUL</b> Multiple                               | <b>RES</b> Respiratory sensitization                 |
| <b>END</b> Endocrine activity         | <b>NEU</b> Neurotoxicity                          | <b>SKI</b> Skin sensitization/irritation/corrosivity |
| <b>EYE</b> Eye irritation/corrosivity | <b>NF</b> Not found on Priority Hazard Lists      | <b>UNK</b> Unknown                                   |
| <b>GEN</b> Gene mutation              | <b>OZO</b> Ozone depletion                        |  |
| <b>GLO</b> Global warming             | <b>PBT</b> Persistent, bioaccumulative, and toxic |  |

**GreenScreen (GS)**

|   |  |
|---|--|
| <b>BM-4</b> Benchmark 4 (prefer-safer chemical)                     | <b>LT-P1</b> List Translator Possible 1 (Possible Benchmark-1) |
| <b>BM-3</b> Benchmark 3 (use but still opportunity for improvement) | <b>LT-1</b> List Translator 1 (Likely Benchmark-1)             |
| <b>BM-2</b> Benchmark 2 (use but search for safer substitutes)      | <b>LT-UNK</b> List Translator Benchmark Unknown                |
| <b>BM-1</b> Benchmark 1 (avoid - chemical of high concern)          | <b>NoGS</b> No GreenScreen.                                    |
| <b>BM-U</b> Benchmark Unspecified (due to insufficient data)        |  |

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.*