ENVIRONMENTAL DATA SHEET



PARTICLEBOARD TAFIPAN / TAFIPAN-EVOLO

Tafisa[®] particleboard panels are manufactured using 100% recycled and recovered wood materials, meticulously selected to create high quality, consistent panels for furniture, millwork, cabinetry and countertops.

VALIDATED ECO-DECLARATION

TAFISA®

PRODUCT SPECIFICATIONS

References Particleboard Tafipan / Tafipan-Evolo

Final manufacturing location

4660, Villeneuve Street, Lac-Megantic, (Quebec) G6B 2C3, CANADA

Composition

Wood particules, adhesive, water, catalyst, and wax.

ATTRIBUTES

Recycled content

Pre-consumer: 51.34% - 87.96% Post-consumer: 0.00% - 35.18%

Sourcing of raw materials

Data collection from suppliers has been conducted for the products components aligned with each specific environmental analysis.

Certified Wood FSC® Certification: NC-COC-003089 FSC® Certification: NC-CW-003089

Rapidly renewable materials

Biobased materials

| ENVIRONMENTAL IMPACTS | | |
|----------------------------|------------|--|
| Life Cycle Assessment | March 2022 | |
| Reference service life | - | |
| Product's carbon footprint | - | |

Environmental Product Declaration

Product-specific (EPD) Type III ISO 14025:2006 March 2022

- March 2027

INGREDIENTS AND EMISSIONS

| Declaration of chemical ingredients | 1 000 ppm |
|--|------------------------------|
| Type of declaration | HPD [®] version 2.2 |
| Health Product Declaration | |
| March 2022 to March 202 | |
| | |

Emissions test

VOC

Formaldehyde

<0.09 ppm for Tafipan. <0.04 ppm for Tafipan-Evolo.

Others

Tafipan/Tafipan-Evolo are compliant with EPA TSCA Title VI. Tafipan/Tafipan-Evolo are compliant with CAN/CSA 0160-16. Tafipan-Evolo is compliant with CARB Phase 2 ULEF according to CARB 93120 - ATCM.

Tafisa® Canada, a subsidiary of the Sonae Industria group, is the owner and operator of North America's largest particleboard manufacturing facility. Each week, more than 700 truckloads of wood fibre are transformed into 300 truckloads of finished products – particleboard or decorative panels.

TECHNICAL PERFORMANCES

Performance tests ANSI A208.1-2022, CAN/ULC S102 ASTM E84

MANUFACTURER'S ENVIRONMENTAL MANAGEMENT

Certification ISO 14001-2015: CERT 55149-1-02 Certification ISO 9001-2015: CERT 55148-1-02 Certification ISO 45001-2018: CERT 55150-1-02

Extended Product Responsibility (Take Back Program)

Corporate Sustainability Report (CSR: GRI, ISO 26000, BNQ 21000 or others)

CERTIFICATION(S) & CONFORMITIES



Master Format: **06 42 00** Validated Eco-Declaration: **VED20-1093-03** Original issue date: **2021/08** Period of validity: **2022/08** to **2023/08** [©]Copyright 2016 Vertima inc.



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ENVIRONMENTAL DATA SHEET

PARTICLEBOARD TAFIPAN / TAFIPAN-EVOLO



PRODUCT CONTRIBUTION SUMMARY

LEED® v4 requirements for Building Design + Construction (BD+C)

New Construction, Core and Shell, Schools, Retail, Data Centers, Warehouse and Distribution Centers, Hospitality and Healthcare.

LEED® v4 requirements for Interior Design + Construction (ID+C)

Commercial Interiors, Retail and Hospitality.

| MATE | MATERIALS AND RESOURCES PRODUCT CONTRIBUTIONS | | |
|-------|--|------------|---|
| MR | Building Product Disclosure and Optimization | Contribute | ENVIRONMENTAL IMPACTS Product-specific (EPD) Type III Compliant to ISO 14025:2006 |
| MR | Building Product Disclosure and Optimization – Sourcing of Raw Materials Option 2: Leadership extraction practices (1 point) Requirements - Use products that meet at least one of the responsible extraction criteria: Recycled content, Wood products Certification, Bio-based materials, Extended producer responsibility. | Contribute | ATTRIBUTES Pre-consumer: 51.34% - 87.96% Post-consumer: 0.00% - 35.18% and Certification FSC® Mix. |
| MR | Building Product Disclosure and Optimization Material Ingredients Option 1: Material ingredients reporting (1 point) The product contributes to this credit due to the availability of Health Product Declarations[®]. They are valued as 1 whole product out of the 20 needed for the purposes of credit achievement. | Contribute | INGREDIENTS AND EMISSIONS HPD® version 2.2 Health Product Declaration® |
| INDOC | DR ENVIRONMENTAL QUALITY | | PRODUCT CONTRIBUTIONS |
| EQ | Low-Emitting Materials Option 1: Product category calculation (1-3 points) Number of points is dependent on the LEED® rating system and the number of compliant categories. | Contribute | INGREDIENTS AND EMISSIONS (Composite wood) Tafipan-Evolo is compliant with CARB Phase 2 ULEF according to CARB 93120 - ATCM. |

The data included in this Environmental Data Sheet has been provided by the client and the suppliers, who are responsible for its veracity and its integrity. Vertima follows a rigorous protocol, including a desktop audit of the factory data, also an audit of the manufacturer's supply chain documentation, the analysis and validation of all supporting documents. However, Vertima cannot be held responsible for false or misleading information that may cause any loss or damage suffered, caused in all or in part, by errors and omissions relative to the collection, compilation and/or interpretation of data.

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ENVIRONMENTAL DATA SHEET

PARTICLEBOARD TAFIPAN / TAFIPAN-EVOLO



PRODUCT CONTRIBUTION SUMMARY

LEED® v4 requirements for homes

Applies to single family homes, multi-family (one to three stories), or multi-family (four to six stories). Includes homes and multifamily low-rise and multi-family mid-rise.

| MATERIALS AND RESOURCES | | PRODUCT CONTRIBUTIONS | |
|--|--|-----------------------|--|
| MR Prerequisite | Certified Tropical Wood | Contribute | ATTRIBUTES Tafipan / Tafipan-Evolo contains no tropical essences. |
| MR | Environmentally Preferable Products Maximum of 4 points depending on both options in the context of each project Option 2: Environmentally Preferable Products The product must meet at least one of these requirements: Content of reclaimed material, Postconsumer or Preconsumer, Wood product certification, Bio-based materials, Concrete with Fly ash or slag and Recycled content or Reclaimed aggregate and Extended producer responsibility. (The materials should meet the specific threshold requirements in the LEED for HOMES reference guide) | Contribute | ATTRIBUTES Pre-consumer: 51.34% - 87.96% Post-consumer: 0.00% - 35.18% and Certification FSC® Mix. |
| INDOOR ENVIRONMENTAL QUALITY PRODUCT CONTRIBUTIONS | | | PRODUCT CONTRIBUTIONS |
| EQ | Low-Emitting Products (0.5-3 points) At least 90% of a component must meet the requirements to earn credit. | Contribute | INGREDIENTS AND EMISSIONS (Composite wood) Tafipan-Evolo is compliant with CARB Phase 2 ULEF according to CARB 93120 - ATCM. |

It is important to consider that the total amount of possible points reflects the number of achievable points in each credit category. The product itself cannot achieve this score, as defined above, but is considered as a beneficial element in order to achieve LEED[®] credits.

The data included in this Environmental Data Sheet has been provided by the client and the suppliers, who are responsible for its veracity and its integrity. Vertima follows a rigorous protocol, including a desktop audit of the factory data, also an audit of the manufacturer's supply chain documentation, the analysis and validation of all supporting documents. However, Vertima cannot be held responsible for false or misleading information that may cause any loss or damage suffered, caused in all or in part, by errors and omissions relative to the collection, compilation and/or interpretation of data.

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ENVIRONMENTAL DATA SHEET



DECORATIVE PANELS (TFL)

Tafisa[®] Canada's decorative panels (TFL) are manufactured using 100% recycled and recovered wood materials. Available in more than 122 standard colour and texture combinations. Besides, the collection comes with the most comprehensive complementary products program of the industry.

VALIDATED ECO-DECLARATION

TAFISA®

PRODUCT SPECIFICATIONS

References

Decorative panels (TFL)

Final manufacturing location

4660, Villeneuve Street, Lac-Megantic, (Quebec) G6B 2C3, CANADA

Composition

Wood particules, adhesive, water, catalyst, wax and impregnated decorative paper.

ATTRIBUTES

Recycled content Pre-consumer: 51.06% - 86.75% Post-consumer: 0.00% - 34.70%

Sourcing of raw materials

Data collection from suppliers has been conducted for the products components aligned with each specific environmental analysis.

Certified Wood

FSC® Certification: NC-COC-003089 FSC® Certification: NC-CW-003089

Rapidly renewable materials

Biobased materials

| ENVIRONMENTAL IMPACTS | | | |
|----------------------------------|--|--|--|
| Life Cycle Assessment March 2022 | | | |
| Reference service life - | | | |

Product's carbon footprint

Environmental Product Declaration

Product-specific (EPD) Type III ISO 14025:2006

March 2022 - March 2027

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INGREDIENTS AND EMISSIONS

| chemical ingredients 1 000 p | |
|---|-----|
| Type of declarationHPD® versionHealth Product DeclaratiMarch 2022 to March 2023 | on® |

Emissions test

VOC*

Formaldehyde

<0.09 ppm for Tafipan substrat. <0.04 ppm for Tafipan-Evolo substrat.

Others

Substrat Tafipan/Tafipan-Evolo are compliant with EPA TSCA Title VI. Substrat Tafipan/Tafipan-Evolo are compliant with CAN//CSA 0160-16. Substrat Tafipan-Evolo is compliant with CARB Phase 2 ULEF according to CARB 93120 - ATCM.

*Variable depending on the type of finish used (Painting, primer, inks, finishes, varnishes applied in the factory or at the construction site)

Tafisa® Canada, a subsidiary of the Sonae Industria group, is the owner and operator of North America's largest particleboard manufacturing facility. Each week, more than 700 truckloads of wood fibre are transformed into 300 truckloads of finished products – particleboard or decorative panels.

TECHNICAL PERFORMANCES

Performance tests

NEMA Ld-3 2005, EN 438-2, ASTM E-84 ANSI A208.1-2022, BIFMA HCF 8.1-2019, CAN/ULC S102, JIS Z2801: 2012

MANUFACTURER'S ENVIRONMENTAL MANAGEMENT

Certification ISO 14001-2015: CERT 55149-1-02 Certification ISO 9001-2015: CERT 55148-1-02 Certification ISO 45001-2018: CERT 55150-1-02

Extended Product Responsibility (Take Back Program)

Corporate Sustainability Report (CSR: GRI, ISO 26000, BNQ 21000 or others)

CERTIFICATION(S) & CONFORMITIES



Master Format: 06 42 00 Validated Eco-Declaration: VED20-1093-02 Original issue date: 2021/08 Period of validity: 2022/08 to 2023/08 ©Copyright 2016 Vertima inc.



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ENVIRONMENTAL DATA SHEET

DECORATIVE PANELS (TFL)



PRODUCT CONTRIBUTION SUMMARY

LEED® v4 requirements for Building Design + Construction (BD+C)

New Construction, Core and Shell, Schools, Retail, Data Centers, Warehouse and Distribution Centers, Hospitality and Healthcare.

LEED® v4 requirements for Interior Design + Construction (ID+C)

Commercial Interiors, Retail and Hospitality.

| MATE | RIALS AND RESOURCES | PRODUCT CONTRIBUTIONS | |
|-------|--|-----------------------|---|
| MR | Building Product Disclosure and Optimization | Contribute | ENVIRONMENTAL IMPACTS Product-specific (EPD) Type III Compliant to ISO 14025:2006 |
| MR | Building Product Disclosure and Optimization — Sourcing of Raw MaterialsOption 2: Leadership extraction practices (1 point)Requirements - Use products that meet at least one of the responsible extraction criteria: Recycled content, Wood products Certification, Bio-based materials, Extended producer responsibility. | Contribute | ATTRIBUTES Pre-consumer: 51.06% - 86.75% Post-consumer: 0.00% - 34.70% and Certification FSC® Mix. |
| MR | Building Product Disclosure and Optimization Material Ingredients Option 1: Material ingredients reporting (1 point) The product contributes to this credit due to the availability of Health Product Declarations[®]. They are valued as 1 whole product out of the 20 needed for the purposes of credit achievement. | Contribute | INGREDIENTS AND EMISSIONS HPD® version 2.2 Health Product Declaration® |
| INDOC | DR ENVIRONMENTAL QUALITY | | PRODUCT CONTRIBUTIONS |
| EQ | Low-Emitting Materials Option 1: Product category calculation (1-3 points) Number of points is dependent on the LEED® rating system and the number of compliant categories. | Contribute | INGREDIENTS AND EMISSIONS (Composite wood) Substrat Tafipan-Evolo is compliant with CARB Phase 2 ULEF according to CARB 93120 - ATCM. |

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ENVIRONMENTAL DATA SHEET

DECORATIVE PANELS (TFL)



PRODUCT CONTRIBUTION SUMMARY

LEED® v4 requirements for homes

Applies to single family homes, multi-family (one to three stories), or multi-family (four to six stories). Includes homes and multifamily low-rise and multi-family mid-rise.

| MATERIA | LS AND RESOURCES | F | PRODUCT CONTRIBUTIONS |
|--------------------|--|------------|---|
| MR Prerequisite | Certified Tropical Wood | Contribute | ATTRIBUTES Substrat Tafipan / Tafipan-Evolo contains no tropical essences. |
| MR | Environmentally Preferable Products Maximum of 4 points depending on both options in the context of each project Option 2: Environmentally Preferable Products The product must meet at least one of these requirements: Content of reclaimed material, Postconsumer or Preconsumer, Wood product certification, Bio-based materials, Concrete with Fly ash or slag and Recycled content or Reclaimed aggregate and Extended producer responsibility. (The materials should meet the specific threshold requirements in the LEED for HOMES reference guide) | Contribute | ATTRIBUTES Pre-consumer: 51.06% - 86.75% Post-consumer: 0.00% - 34.70% and Certification FSC® Mix. |
| INDOOR I | ENVIRONMENTAL QUALITY | F | PRODUCT CONTRIBUTIONS |
| EQ | Low-Emitting Products (0.5-3 points) At least 90% of a component must meet the requirements to earn credit. | Contribute | INGREDIENTS AND EMISSIONS (Composite wood) Substrat Tafipan-Evolo is compliant with CARB Phase 2 ULEF according to CARB 93120 - ATCM. |

It is important to consider that the total amount of possible points reflects the number of achievable points in each credit category. The product itself cannot achieve this score, as defined above, but is considered as a beneficial element in order to achieve LEED[®] credits.

The data included in this Environmental Data Sheet has been provided by the client and the suppliers, who are responsible for its veracity and its integrity. Vertima follows a rigorous protocol, including a desktop audit of the factory data, also an audit of the manufacturer's supply chain documentation, the analysis and validation of all supporting documents. However, Vertima cannot be held responsible for false or misleading information that may cause any loss or damage suffered, caused in all or in part, by errors and omissions relative to the collection, compilation and/or interpretation of data.

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ENVIRONMENTAL DATA SHEET



SURFORMA®

Branded SURFORMA[®], the HPL is manufactured by Tafisa's sister company. It is a complete, harmonized line of HPL to our TFL Prelude and Sommet embossed in-register (EIR) Series

VALIDATED ECO-DECLARATION

PRODUCT SPECIFICATIONS

References SURFORMA®

Final manufacturing location

Lugar de Espido - Via Norte, 4471-909 MAIA, PORTUGAL.

Composition

Kraft paper, impregnated decorative paper and overlay.

ATTRIBUTES

Recycled content Pre-consumer: 0% Post-consumer: 0%

Sourcing of raw materials

Data collection from suppliers has been conducted for the products components aligned with each specific environmental analysis.

| Certified Wood |
|--|
| FSC® Certification: FSC-C111655 / 2027-07-08 |
| PEFC Certification: PEFC ST 2002:2013 / 2022-08-13 |

Rapidly renewable materials Biobased materials

ENVIRONMENTAL IMPACTS

Life Cycle Assessment

Reference service life

Product's carbon footprint

Environmental Product Declaration

Industry-wide Type III EPD ISO 14025:2006 November 2017 - November 2022

INGREDIENTS AND EMISSIONS

| Declaration of chemical ingredients | 1 000 ppm |
|--|--|
| | HPD® version 2.2 n Product Declaration® h 2022 to March 2025 |
| | GREENGUARD |

| Emissions test | 2022/10 |
|----------------|-----------------------|
| VOC* | 0.5mg/ m ³ |
| Formaldehyde | 0.04 ppm |
| Others | - |

TECHNICAL PERFORMANCES

Performance tests NEMA Ld-3 2005 NSF/ANSI 35 JIS Z2801: 2012

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MANUFACTURER'SENVIRONMENTAL MANAGEMENT

Certification ISO 14001-2015: Reg. Nber PT-2011/AMB.0522 Certification ISO 9001-2015: Reg. Nber PT-1993/CEP.048 Certification ISO 45001-2018: Reg. Nber PT-2014/SST.0391

Extended Product Responsibility (Take Back Program)

Corporate Sustainability Report (CSR: GRI, ISO 26000, BNQ 21000 or others)

Master Format : 06 42 00

CERTIFICATION(S) & CONFORMITIES



Tafisa® Canada, a subsidiary of the Sonae Industria group, is the owner and operator of North America's largest particleboard manufacturing facility. Each week, more than 700 truckloads of wood fibre are transformed into 300 truckloads of finished products – particleboard or decorative panels.

Validated Eco-Declaration : VED20-1093-01 Original issue date : 2021/08 Period of validity : 2022/08 to 2023/08 ©Copyright 2016 Vertima inc.



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ENVIRONMENTAL DATA SHEET

SURFORMA[®]



PRODUCT CONTRIBUTIONS

PRODUCT CONTRIBUTION SUMMARY

LEED® v4 requirements for Building Design + Construction (BD+C)

New Construction, Core and Shell, Schools, Retail, Data Centers, Warehouse and Distribution Centers, Hospitality and Healthcare.

LEED® v4 requirements for Interior Design + Construction (ID+C)

Commercial Interiors, Retail and Hospitality.

MATERIALS AND RESOURCES

| MR | Building Product Disclosure and Optimization | Contribute | ENVIRONMENTAL IMPACTS Industry-wide Type III EPD compliant to ISO 14025:2006 |
|-------|---|------------|--|
| MR | Building Product Disclosure and Optimization Sourcing of Raw Materials Option 2: Leadership extraction practices (1 point) Requirements - Use products that meet at least one of the responsible extraction criteria: Recycled content, Wood products Certification, Bio-based materials, Extended producer responsibility. | Contribute | ATTRIBUTES FSC® Certification: FSC-C111655 / 2027-07-08 PEFC Certification: PEFC ST 2002:2013 / 2022-08-13 |
| MR | Building Product Disclosure and Optimization Material Ingredients Option 1: Material ingredients reporting (1 point) The product contributes to this credit due to the availability of Health Product Declarations[®]. They are valued as 1 whole product out of the 20 needed for the purposes of credit achievement. | Contribute | INGREDIENTS AND EMISSIONS HPD® version 2.2 Health Product Declaration® |
| INDOC | OR ENVIRONMENTAL QUALITY | | PRODUCT CONTRIBUTIONS |
| EQ | Low-Emitting Materials Option 1: Product category calculation (1-3 points) Number of points is dependent on the LEED® rating system and the number of compliant categories. For the furniture category, at least 90% of the furniture, in cost, must meet the requirements. | Contribute | INGREDIENTS AND EMISSIONS Furniture GREENGUARD Certified |

The data included in this Environmental Data Sheet has been provided by the client and the suppliers, who are responsible for its veracity and its integrity. Vertima follows a rigorous protocol, including an on-site audit of the factory, an audit of the manufacturer's supply chain documentation, and the analysis and validation of all supporting documents. However, Vertima cannot be held responsible for false or misleading information that may cause any loss or damage suffered, caused in all or in part, by errors and omissions relative to the collection, m compilation and/or interpretation of data. Validated Eco-Declaration: VED20-1093-01 Period of validity: 2022/08 to 2023/08 ©Copyright 2016 Vertima inc.



ENVIRONMENTAL DATA SHEET

SURFORMA[®]



PRODUCT CONTRIBUTION SUMMARY

LEED® v4 requirements for homes

Applies to single family homes, multi-family (one to three stories), or multi-family (four to six stories). Includes homes and multifamily low-rise and multi-family mid-rise.

| MATERIA | LS AND RESOURCES | F | PRODUCT CONTRIBUTIONS |
|--------------------|--|------------|--|
| MR Prerequisite | Certified Tropical Wood | Contribute | ATTRIBUTES SURFORMA® contains no tropical essences. |
| MR | Environmentally Preferable Products Maximum of 4 points depending on both options in the context of each project Option 2: Environmentally Preferable Products The product must meet at least one of these requirements: Content of reclaimed material, Postconsumer or Preconsumer, Wood product certification, Bio-based materials, Concrete with Fly ash or slag and Recycled content or Reclaimed aggregate and Extended producer responsibility. (The materials should meet the specific threshold requirements in the LEED for HOMES reference guide) | Contribute | ATTRIBUTES FSC® Certification: FSC-C111655 / 2027-07-08 PEFC Certification: PEFC ST 2002:2013 / 2022-08-13 |
| INDOOR E | ENVIRONMENTAL QUALITY | F | PRODUCT CONTRIBUTIONS |
| EQ | Low-Emitting Products (0.5-3 points) At least 90% of a component must meet the requirements to earn credit. | Contribute | INGREDIENTS AND EMISSIONS Furniture GREENGUARD Certified |

It is important to consider that the total amount of possible points reflects the number of achievable points in each credit category. The product itself cannot achieve this score, as defined above, but is considered as a beneficial element in order to achieve LEED[®] credits.

The data included in this Environmental Data Sheet has been provided by the client and the suppliers, who are responsible for its veracity and its integrity. Vertima follows a rigorous protocol, including an on-site audit of the factory, an audit of the manufacturer's supply chain documentation, and the analysis and validation of all supporting documents. However, Vertima cannot be held responsible for false or misleading information that may cause any loss or damage suffered, caused in all or in part, by errors and omissions relative to the collection, m compilation and/or interpretation of data. Validated Eco-Declaration: VED20-1093-01 Period of validity: 2022/08 to 2023/08 ©Copyright 2016 Vertima inc.



PARTICLEBOARD: TAFIPAN / TAFIPAN-EVOLO by Tafisa Canada inc.

HPD UNIQUE IDENTIFIER: 27931

CLASSIFICATION: 06 42 00 Wood Paneling

PRODUCT DESCRIPTION: This HPD covers the Tafisa® particleboard panels. Tafisa® particleboard panels are used for furniture, millwork, cabinetry and countertops. Produced in a wide variety of dimensions Tafisa® offers two types of particleboard panels characterized by different levels of low formaldehyde emissions: TAFIPAN® EPA TSCA Title VI compliant and TAFIPAN-EVOLO TM: EPA TSCA Title VI compliant and CARB ULEF (Ultra Low Emitting Formaldehyde) certified.

Section 1: Summary

CONTENT INVENTORY

- Inventory Reporting Format © Nested Materials Method
- C Basic Method
- Threshold Disclosed Per
- C Material
- Product

- Threshold Level C 100 ppm C 1,000 ppm C Per GHS SDS C Other
- Residuals/Impurities Considered in 6 of 6 Materials Explanation(s) provided
- for Residuals/Impurities? • Yes O No

Nested Method / Product Threshold

 All Substances Above the Threshold Indicated Are:

 Characterized
 Image: Characterized Chara

% weight and role provided for all substances except SC substances characterized according to SC guidance. Screened ⊙ Yes Ex/SC ○ Yes ○ No

All substances screened using Priority Hazard Lists with results disclosed except SC substances screened according to SC guidance.

One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special Condition did not follow guidance.

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY GREENSCREEN SCORE | HAZARD TYPE

SC:BIO:SC:BIO:BIOLOGICALMATERIAL [SC:WOOD PARTICLES Not Screened] UREA FORMALDEHYDE RESIN [UNDISCLOSED LT-UNK UNDISCLOSED BM-4 UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED BM-1 | END | DEV | MUL | REP | PHY | MAM] WATER [WATER BM-4] CATALYST [WATER BM-4 AMMONIUM NITRATE LT-P1 | END] WAX [UNDISCLOSED LT-1 | CAN | MUL UNDISCLOSED BM-4 UNDISCLOSED NoGS UNDISCLOSED LT-P1 | END | SKI | RES] SCAVENGER [UREA LT-UNK WATER BM-4] Number of Greenscreen BM-4/BM3 contents ... 5

Contents highest concern GreenScreen Benchmark or List translator Score ... BM-1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

Special conditions applied: BiologicalMaterial

[LEED v4] "Yes ex/SC" result is due only to materials and substances for which Special Conditions were applied. Thus "Yes ex/SC" does not disqualify the product for the LEED v4 Materials and Resources Disclosure and Optimization credit, Option 1.

HPD prepared using a Nested Materials Inventory with a product threshold at 1,000 ppm. The content inventory includes TAFIPAN and TAFIPAN-EVOLO products. Both products contain materials with Special Conditions (biological material and reaction products, defined substances, recycled content - mixture) as per the HPDC. Reporting of Biological materials (SCBioMats/2018-02-23) was done according to HPDC Guidelines. Guidelines for reporting reaction products are still under development by HPDC. TAFISA Company will update the HPD accordingly once these guidelines get published. Adhesive substances at or above the threshold, have been declared as unreacted. Substances present in TAFIPAN and TAFIPAN-EVOLO, as well as known residuals and impurities, have been disclosed at 1,000 ppm. Some ingredients are not diclosed beacause they are proprietaries. More details about how residuals and impurities were considered available in the appropriate sections.

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 V1.2 (Section 01350/CHPS) -Not Applicable Multi-attribute: CPA 4-19 Eco-Certified Composites (ECC)

PARTICLEBOARD: TAFIPAN / TAFIPAN-EVOLO hpdrepository.hpd-collaborative.org

HPD v2.2 created via HPDC Builder Page 1 of 11

Formaldehyde emissions: EPA TSCA Title VI (40 CFR 770), CAN/CSA-0160-16, ANSI A208.1 California Air Resources Board (CARB) Airborne Toxic Control Measures (ATCM) 93120 Formaldehyde emissions: CARB Composite Wood ATCM CA 93120 Ultra Low-Emitting Formaldehyde (ULEF)

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients Option 1

| Third Party Verified? | PREPARER: Vertima | SCREENING DATE: 2022-03-25 |
|-----------------------|-------------------|----------------------------|
| ⊖ Yes | VERIFIER: | PUBLISHED DATE: 2022-03-25 |
| © No | VERIFICATION #: | EXPIRY DATE: 2025-03-25 |

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

| SC:BIO:SC:BIO:BIOLOGICALMA | | | | |
|---|--|---|---|---|
| PRODUCT THRESHOLD: 1000 pp | | | | IAL TYPE: Wood Dust, Fiber or Chips |
| RESIDUALS AND IMPURITIES NO | OTES: No residuals or impurities suspected t | to be present in w | ood fiber. | |
| OTHER MATERIAL NOTES: Spec | ialConditionApplied:BiologicalMaterial Sp | pecial Condition A | pplied: Biolog | gical Material |
| SC:WOOD PARTICLES | | | | ID: SC:Bio |
| HAZARD SCREENING METHO | D: Pharos Chemical and Materials Library | HAZARD SCRE | ENING DATE: | Not Screened |
| %: 100.0000 | GS: Not Screened | RC: Both NAM | NO: No SUE | STANCE ROLE: Structure componen |
| HAZARD TYPE | AGENCY AND LIST TITLES | WARNI | NGS | |
| | Hazard Screening not performed | | | |
| metabolic activities, pesticide disclosure does not provide in metabolic activities, pesticide Particleboard is made of pre- and cuttings from manufactur plytrim, sawdust, fines, chips | | hazards which ma of metals, produc hazards which ma s. Pre-consumer I od products. Exar | ay be found ir ction of any to ay be found ir Recycled incl mples of this o | n certain biological materials. This oxic substances during normal n certain biological materials. udes fiber, such as scrap, trimmings category include planer shavings, |
| UREA FORMALDEHYDE RESIN | %: 5.9000 - 13.5000 | | | |
| PRODUCT THRESHOLD: 1000 pp | m RESIDUALS AND IMPURITIES CO | NSIDERED: Yes | MAT | ERIAL TYPE: Polymeric Material |
| | DTES: According to Pharos, known or poten mber: 50-00-0). No test have been done. | tial residual for Fo | ormaldehyde o | compounds, Urea formaldehyde |
| OTHER MATERIAL NOTES: Weig | ht percentage may vary as this HPD covers | multiple particle b | oard grades | |
| UNDISCLOSED | | | | ID: Undisclosed |
| HAZARD SCREENING METHO | D: Pharos Chemical and Materials Library | HAZARD SCRE | ENING DATE: | 2022-03-25 16:00:40 |
| %: 71.9600 - 73.9900 | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE ROLE: Binder |
| HAZARD TYPE | AGENCY AND LIST TITLES | WARNIN | GS | |

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary. Weight percentage may vary as this HPD covers multiple particle board grades and the exact ratio is proprietary.

| UNDISCLOSED | | | | | ID: Undisclosed |
|---|---|------------------|----------------|------------------|----------------------|
| | Pharos Chemical and Materials Library | HAZARD SCI | REENING DATE: | 2022-03-25 16 | |
| %: 25.2400 - 28.0400 | GS: BM-4 | RC: None | NANO: No | SUBSTANCE | ROLE: Diluent |
| HAZARD TYPE | AGENCY AND LIST TITLES | WARN | IINGS | | |
| None found | | | No warnings | found on HPD P | riority Hazard Lists |
| SUBSTANCE NOTES: Substance particle board grades and the e | e name is UnDisclosed because it is propr xact ratio is proprietary. | ietary. Weight I | percentage may | vary as this HPD |) covers multiple |
| UNDISCLOSED | | | | | ID: Undisclosed |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCI | REENING DATE: | 2022-03-25 16 | :00:45 |
| %: 0.0000 - 0.0800 | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE R | OLE: Surfactant |
| HAZARD TYPE | AGENCY AND LIST TITLES | WARN | IINGS | | |
| None found | | | No warnings | found on HPD P | riority Hazard Lists |
| UNDISCLOSED | | | | | ID: Undisclosed |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCI | REENING DATE: | 2022-03-25 16 | :00:46 |
| %: 0.0000 - 0.3900 | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE R | OLE: Surfactant |
| HAZARD TYPE | AGENCY AND LIST TITLES | WARN | IINGS | | |
| None found | | | No warnings | found on HPD P | riority Hazard Lists |
| SUBSTANCE NOTES: Substance particle board grades and the e | e name is UnDisclosed because it is propr xact ratio is proprietary. | ietary. Weight | percentage may | vary as this HPD |) covers multiple |
| UNDISCLOSED | | | | | ID: Undisclosed |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCI | REENING DATE: | 2022-03-25 16 | :00:46 |
| %: Impurity/Residual | GS: BM-1 | RC: None | NANO: No SUE | BSTANCE ROLE | Impurity/Residual |
| | | | | | |

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|---|--|
| END | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor |
| DEV | CA EPA - Prop 65 | Developmental toxicity |
| DEV | US NIH - Reproductive & Developmental Monographs | Clear Evidence of Adverse Effects - Developmental Toxicity |
| MUL | German FEA - Substances Hazardous to Waters | Class 2 - Hazard to Waters |
| REP | GHS - Japan | H360 - May damage fertility or the unborn child [Toxic to reproduction - Category 1B] |
| РНҮ | EU - GHS (H-Statements) Annex 6 Table 3-1 | H225 - Highly flammable liquid and vapour [Flammable liquids - Category 2] |
| МАМ | EU - GHS (H-Statements) Annex 6 Table 3-1 | H331 - Toxic if inhaled [Acute toxicity (inhalation) - Category 3] |
| МАМ | EU - GHS (H-Statements) Annex 6 Table 3-1 | H301 - Toxic if swallowed [Acute toxicity (oral) - Category 3] |
| МАМ | EU - GHS (H-Statements) Annex 6 Table 3-1 | H311 - Toxic in contact with skin [Acute toxicity (dermal) - Category 3] |
| МАМ | EU - GHS (H-Statements) Annex 6 Table 3-1 | H370 - Causes damage to organs [Specific target organ toxicity - single exposure - Category 1] |

SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary. Weight percentage may vary as this HPD covers multiple particle board grades.

| WATER | %: 1.6000 - 2.2000 | | | |
|--|--|-------------------|-------------------|--------------------------------------|
| PRODUCT THRESHOLD: 1000 ppm | RESIDUALS AND IMPURITIES C | ONSIDERED: | fes 🕴 | MATERIAL TYPE: Other: Water |
| RESIDUALS AND IMPURITIES NOTES | 5: No data collected regarding this mater | rial. | | |
| OTHER MATERIAL NOTES: Weight pe | ercentage may vary as this HPD covers r | multiple particle | eboard grades. S | Standard water is used (municipal). |
| WATER | | | | ID: 7732-18-5 |
| HAZARD SCREENING METHOD: P | Pharos Chemical and Materials Library | HAZARD SCI | REENING DATE: | 2022-03-25 16:00:40 |
| %: 100.0000 | GS: BM-4 | RC: None | NANO: No | SUBSTANCE ROLE: Diluent |
| HAZARD TYPE | AGENCY AND LIST TITLES | WARN | IINGS | |
| None found | | | No warnings f | found on HPD Priority Hazard Lists |
| SUBSTANCE NOTES: Accoroding | to the supplier, residual and impurity are | e below the thr | eshold. | |
| | | | | |
| | | | | |
| CATALYST | %: 0.5000 - 0.6000 | | | |
| PRODUCT THRESHOLD: 1000 ppm | RESIDUALS AND IMPURITIES CO | NSIDERED: Ye | s MATE | ERIAL TYPE: Polymeric Material |
| RESIDUALS AND IMPURITIES NOTES present in their product. | 6: The supplier declared, based on the te | echnical/scient | ific knowledge, t | hat no residuals and impurities were |
| | | | | |
| | | | | |

OTHER MATERIAL NOTES: Weight percentage may vary as this HPD covers multiple particleborad grade of products, Some substances fall below the reportable thershold, and are not reported in the content inventory.

| VATER | | | | ID: 7732-1 8 |
|-----------------------------|--|--------------------|------------------|-----------------------------------|
| AZARD SCREENING METHO | D: Pharos Chemical and Materials Library | HAZARD SC | REENING DATE: | 2022-03-25 16:00:41 |
| %: 50.0000 - 60.0000 | GS: BM-4 | RC: None | NANO: No | SUBSTANCE ROLE: Diluent |
| HAZARD TYPE | AGENCY AND LIST TITLES | WARM | NINGS | |
| None found | | | No warnings | found on HPD Priority Hazard Lis |
| • | t percentage may vary as this HPD covers mu esidual and impurity are below the threshold. | Iltiple particle b | ooard grades and | d the exact ratio is proprietary. |

| AMMONIUM NITRATE | | | | | ID: 6484-52-2 |
|--------------------------|---------------------------------------|--------|---------|------------------|--------------------------|
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZAF | ND SCR | EENING DATE: | 2022-03-25 16:00:41 |
| %: 50.0000 - 60.0000 | GS: LT-P1 | RC: No | one | NANO: No | SUBSTANCE ROLE: Catalyst |
| HAZARD TYPE | AGENCY AND LIST TITLES | | WARNI | NGS | |
| END | TEDX - Potential Endocrine Disruptors | | Potenti | al Endocrine Dis | sruptor |

SUBSTANCE NOTES: Weight percentage may vary as this HPD covers multiple particle board grades and the exact ratio is proprietary.

| WAX | %: 0.3000 - 0.4000 | |
|-----------------------------|--|-----------------------------------|
| PRODUCT THRESHOLD: 1000 ppm | RESIDUALS AND IMPURITIES CONSIDERED: Yes | MATERIAL TYPE: Polymeric Material |

RESIDUALS AND IMPURITIES NOTES: Suppliers declared, based on technical/scientific knowledge, that no residuals or impurities were present in their product. However, no tests were performed on their product. According to Pharos, known or potential residuals for slack wax (64742-61-6) is paraffin (8002-74-2) and paraffin oil (8012-95-1).

OTHER MATERIAL NOTES: Wax is used as water repellant. Substance name is UnDisclosed because of the existence of and time limits associated with a non-disclosure agreement (NDA) in place with the supplier. Weight percentage may vary as this HPD covers multiple particle board grades.

| UNDISCLOSED | | ID: Undisclosed |
|--|------------------------|---------------------|
| HAZARD SCREENING METHOD: Pharos Chemical and Materials Library | HAZARD SCREENING DATE: | 2022-03-25 16:00:42 |

%: 50.0000 - 60.0000

GS: LT-1

RC: None NANO: No SUBSTANCE ROLE: Water resistance

| HAZARD TYPE | AGENCY AND LIST TITLES | | WARN | IINGS | | |
|--|--|---------|----------------|------------------|-----------------|---------------------------|
| CAN | EU - REACH Annex XVII CMRs | | | nogen Category a | | which should be to man |
| CAN | EU - Annex VI CMRs | | | nogen Category | 1B - Presumed | Carcinogen based |
| MUL | ChemSec - SIN List | | CMR - | - Carcinogen, Mu | utagen &/or Re | productive Toxicant |
| MUL | German FEA - Substances Hazardous Waters | to | Class | 3 - Severe Haza | rd to Waters | |
| CAN | GHS - Australia | | H350 or 1B] | - | cer [Carcinoge | nicity - Category 1A |
| CAN | EU - GHS (H-Statements) Annex 6 Tabl | le 3-1 | H350 or 1B] | - | cer [Carcinoge | nicity - Category 1A |
| board grades and the exact r | nce is undisclosure because it is proprietary. atio is proprietary. | . Weigh | t percer | ntage may vary a | is this HPD cov | |
| | | 1147/ | | | 0000 00 05 1 | ID: Undisclosed |
| | D: Pharos Chemical and Materials Library | | | | | |
| %: 40.0000 - 50.0000 | GS: BM-4 | RC: N | vone | NANO: No | SUBSTANC | E ROLE: Diluent |
| HAZARD TYPE | AGENCY AND LIST TITLES | | WARN | IINGS | | |
| None found | | | | No warnings | found on HPD | Priority Hazard Lists |
| SUBSTANCE NOTES: Substa board grades and the exact re | nce is undisclosure because it is proprietary. atio is proprietary. | . Weigh | t percer | ntage may vary a | s this HPD cov | ers multiple particle |
| UNDISCLOSED | | | | | | ID: Undisclosed |
| HAZARD SCREENING METHO | D: Pharos Chemical and Materials Library | HAZA | ARD SCI | REENING DATE: | 2022-03-25 1 | 6:00:44 |
| %: 0.5000 - 3.0000 | GS: NoGS | RC: N | lone | NANO: No | SUBSTANCE | ROLE: Surfactant |
| HAZARD TYPE | AGENCY AND LIST TITLES | | WARN | IINGS | | |
| None found | | | | No warnings | found on HPD | Priority Hazard Lists |
| SUBSTANCE NOTES: Substa board grades and the exact r | nce is undisclosure because it is proprietary. atio is proprietary. | . Weigh | t percer | ntage may vary a | is this HPD cov | ers multiple particle |
| UNDISCLOSED | | | | | | ID: Undisclosed |
| HAZARD SCREENING METHO | D: Pharos Chemical and Materials Library | HAZA | ARD SCI | REENING DATE: | 2022-03-25 1 | 6:00:45 |
| %: 0.5000 - 3.0000 | GS: LT-P1 | RC: N | lone | NANO: No | SUBSTANCE | ROLE: Surfactant |

| | HAZARD TYPE | AGENCY AND LIST TITLES | WARN | INGS | | |
|---|---|--|---|---|---|--------------------------------------|
| | END | TEDX - Potential Endocrine Disruptors | Potent | ial Endocrine Di | sruptor | |
| | SKI | МАК | Sensiti | zing Substance | Sh - Danger of skin sensitiz | ation |
| | RES | AOEC - Asthmagens | Asthma | agen (Rs) - sens | itizer-induced | |
| | SKI | EU - GHS (H-Statements) Annex 6 Table | | | skin burns and eye damage ategory 1A or 1B or 1C] | e [Skin |
| | SUBSTANCE NOTES: Substance board grades and the exact ratio | is undisclosure because it is proprietary. is proprietary. | Weight percen | tage may vary a | s this HPD covers multiple | particle |
| : | SCAVENGER | %: 0.1000 - 0.6000 | | | | |
| | PRODUCT THRESHOLD: 1000 ppm | RESIDUALS AND IMPURITIES COI | NSIDERED: Yes | S MATE | RIAL TYPE: Polymeric Mate | erial |
| | | S: Suppliers declared, based on technica ests were performed on their product. | ll/scientific kno | wledge, that no | residuals or impurities were | e present |
| 1 | OTHER MATERIAL NOTES: Weight p | percentage may vary as this HPD covers r | nultiple particle | board grades. | | |
| | OTHER MATERIAL NOTES: Weight p | percentage may vary as this HPD covers r | nultiple particle | board grades. | ID: | 57-13-6 |
| | UREA | percentage may vary as this HPD covers r Pharos Chemical and Materials Library | | _ | | 57-13-6 |
| | UREA | | | _ | | |
| | UREA HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCR | REENING DATE: NANO: No | 2022-03-25 16:00:42 | |
| | UREA HAZARD SCREENING METHOD: 1 %: 49.0000 - 51.0000 | Pharos Chemical and Materials Library GS: LT-UNK | HAZARD SCR RC: None | REENING DATE: NANO: No INGS | 2022-03-25 16:00:42 | enger |
| | UREA HAZARD SCREENING METHOD: 1 %: 49.0000 - 51.0000 HAZARD TYPE None found | Pharos Chemical and Materials Library GS: LT-UNK | HAZARD SCR RC: None WARN | REENING DATE: NANO: No INGS No warnings f | 2022-03-25 16:00:42 SUBSTANCE ROLE: Scave | enger rd Lists |
| | UREA HAZARD SCREENING METHOD: 1 %: 49.0000 - 51.0000 HAZARD TYPE None found | Pharos Chemical and Materials Library GS: LT-UNK AGENCY AND LIST TITLES | HAZARD SCR RC: None WARN | REENING DATE: NANO: No INGS No warnings f | 2022-03-25 16:00:42 SUBSTANCE ROLE: Scave | enger rd Lists |
| | UREA HAZARD SCREENING METHOD: 1 %: 49.0000 - 51.0000 HAZARD TYPE None found | Pharos Chemical and Materials Library GS: LT-UNK AGENCY AND LIST TITLES | HAZARD SCR RC: None WARN | REENING DATE: NANO: No INGS No warnings f | 2022-03-25 16:00:42 SUBSTANCE ROLE: Scave found on HPD Priority Hazar | enger rd Lists |
| | UREA HAZARD SCREENING METHOD: 1 %: 49.0000 - 51.0000 HAZARD TYPE None found SUBSTANCE NOTES: Weight per WATER | Pharos Chemical and Materials Library GS: LT-UNK AGENCY AND LIST TITLES | HAZARD SCR RC: None WARNI | EENING DATE: NANO: No INGS No warnings f | 2022-03-25 16:00:42 SUBSTANCE ROLE: Scave found on HPD Priority Hazar I the exact ratio is proprieta | enger rd Lists ry. |
| | UREA HAZARD SCREENING METHOD: 1 %: 49.0000 - 51.0000 HAZARD TYPE None found SUBSTANCE NOTES: Weight per WATER | Pharos Chemical and Materials Library GS: LT-UNK AGENCY AND LIST TITLES centage may vary as this HPD covers mu | HAZARD SCR RC: None WARNI | EENING DATE: NANO: No INGS No warnings f | 2022-03-25 16:00:42 SUBSTANCE ROLE: Scave found on HPD Priority Hazar I the exact ratio is proprieta | enger rd Lists ry. 732-18-5 |
| | UREA HAZARD SCREENING METHOD: I %: 49.0000 - 51.0000 HAZARD TYPE None found SUBSTANCE NOTES: Weight per WATER HAZARD SCREENING METHOD: I | Pharos Chemical and Materials Library GS: LT-UNK AGENCY AND LIST TITLES centage may vary as this HPD covers mu Pharos Chemical and Materials Library | HAZARD SCR RC: None WARNI Itiple particle be | EENING DATE: NANO: No INGS No warnings f bard grades and EEENING DATE: NANO: No | 2022-03-25 16:00:42 SUBSTANCE ROLE: Scave found on HPD Priority Hazar I the exact ratio is proprieta | enger rd Lists ry. 732-18-5 |

SUBSTANCE NOTES: Weight percentage may vary as this HPD covers multiple particle board grades and the exact ratio is proprietary.

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 V1.2 (Section 01350/CHPS) - Not Applicable | | |
|--|---|--------------|--|
| CERTIFYING PARTY: Self-declared APPLICABLE FACILITIES: TAFISA Canada inc. | ISSUE DATE: 2019-06- 17 | EXPIRY DATE: | CERTIFIER OR LAB: TAFISA Canada inc. |
| CERTIFICATE URL: | | | |

CERTIFICATION AND COMPLIANCE NOTES: According to LEED v4, emissions and content requirements for Composite Wood are to follow the Composite Wood Evaluation which states: "Composite wood, as defined by the California Air Resources Board, Airborne Toxic Measure to Reduce Formaldehyde Emissions from Composite Wood Products Regulation, must be documented to have low formaldehyde emissions that meet the California Air Resources Board ATCM for formaldehyde requirements for ultra-low-emitting formaldehyde (ULEF) resins or no added formaldehyde resins.

| MULTI-ATTRIBUTE | CPA 4-19 Eco-Certified | Composites (ECC) | |
|---|--|--|--|
| CERTIFYING PARTY: Second Party APPLICABLE FACILITIES: TAFISA Canada inc. CERTIFICATE URL: | ISSUE DATE: 2019-01- 02 | EXPIRY DATE: | CERTIFIER OR LAB: Composite Panel Association |
| CERTIFICATION AND COMPLIANCE NOTES: Carbon Food Sustainable Use of Wood Fiber; Responsible Wood Sourc | | er; Recycled, Recovered | or Post-Consumer Fiber Content; |
| FORMALDEHYDE EMISSIONS | EPA TSCA Title VI (40 CFR 770), CAN/CSA-0160-16, ANSI A208.1 California Air Resources Board (CARB) Airborne Toxic Control Measures (ATCM) 93120 | | |
| CERTIFYING PARTY: Second Party APPLICABLE FACILITIES: Tafisa Canada inc. CERTIFICATE URL: | ISSUE DATE: 2019-06- 17 | EXPIRY DATE: | CERTIFIER OR LAB: Composition Panel Association |
| CERTIFICATION AND COMPLIANCE NOTES: Fulfills The F California Air Resources Board (CARB) Airborne Toxic Cor | | | AN/CSA-0160-16, ANSI A208.1 |
| FORMALDEHYDE EMISSIONS | CARB Composite Woo | d ATCM CA 93120 Ultra | Low-Emitting Formaldehyde (ULEF |
| CERTIFYING PARTY: Second Party APPLICABLE FACILITIES: Tafisa Canada inc. | ISSUE DATE: 2021-09- 09 | EXPIRY DATE: 2022- 05-07 | CERTIFIER OR LAB: Composite Panel Association |
| CERTIFICATE URL: | | | |
| CERTIFICATE URL: CERTIFICATION AND COMPLIANCE NOTES: Fulfills The F Formaldehyde (ULEF). | Requirements Of: CARB Co | mposite Wood ATCM CA | 93120 Ultra Low-Emitting |
| CERTIFICATION AND COMPLIANCE NOTES: Fulfills The F Formaldehyde (ULEF). | | mposite Wood ATCM CA gle Chain of Custody and | |
| CERTIFICATION AND COMPLIANCE NOTES: Fulfills The F | | gle Chain of Custody and | |
| CERTIFICATION AND COMPLIANCE NOTES: Fulfills The F Formaldehyde (ULEF). SUSTAINABLE FORESTRY CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Tafisa Canada inc. | FSC Certification - Sing ISSUE DATE: 2016-07- 28 | gle Chain of Custody and EXPIRY DATE: 2022- 07-27 | d Controlled Wood CERTIFIER OR LAB: Preferred by Nature |
| CERTIFICATION AND COMPLIANCE NOTES: Fulfills The F Formaldehyde (ULEF). SUSTAINABLE FORESTRY CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Tafisa Canada inc. CERTIFICATE URL: CERTIFICATION AND COMPLIANCE NOTES: Certificate re | FSC Certification - Sing ISSUE DATE: 2016-07- 28 egistration code NC-COC-0 | gle Chain of Custody and EXPIRY DATE: 2022- 07-27 | d Controlled Wood CERTIFIER OR LAB: Preferred by Nature SC® licence code : FSC-C006416 |
| CERTIFICATION AND COMPLIANCE NOTES: Fulfills The F Formaldehyde (ULEF). SUSTAINABLE FORESTRY CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Tafisa Canada inc. CERTIFICATE URL: | FSC Certification - Sing ISSUE DATE: 2016-07- 28 egistration code NC-COC-0 | gle Chain of Custody and EXPIRY DATE: 2022- 07-27 003089, NC-CW-003089 F tal management systems | d Controlled Wood CERTIFIER OR LAB: Preferred by Nature SC® licence code : FSC-C006416 |
| CERTIFICATION AND COMPLIANCE NOTES: Fulfills The F Formaldehyde (ULEF). SUSTAINABLE FORESTRY CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Tafisa Canada inc. CERTIFICATE URL: CERTIFICATION AND COMPLIANCE NOTES: Certificate re MANAGEMENT CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Tafisa Canada inc. CERTIFICATE URL: | FSC Certification - Sing ISSUE DATE: 2016-07- 28 egistration code NC-COC-0 ISO 14001 Environment ISSUE DATE: 2021-06- 17 | gle Chain of Custody and EXPIRY DATE: 2022- 07-27 003089, NC-CW-003089 F tal management systems EXPIRY DATE: 2024- | d Controlled Wood CERTIFIER OR LAB: Preferred by Nature FSC® licence code : FSC-C006416 s CERTIFIER OR LAB: Bureau de |
| CERTIFICATION AND COMPLIANCE NOTES: Fulfills The F Formaldehyde (ULEF). SUSTAINABLE FORESTRY CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Tafisa Canada inc. CERTIFICATE URL: CERTIFICATION AND COMPLIANCE NOTES: Certificate re MANAGEMENT CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Tafisa Canada inc. CERTIFICATE URL: CERTIFICATE URL: CERTIFICATE URL: CERTIFICATION AND COMPLIANCE NOTES: Certificate N | FSC Certification - Sing ISSUE DATE: 2016-07- 28 egistration code NC-COC-0 ISO 14001 Environment ISSUE DATE: 2021-06- 17 | EXPIRY DATE: 2022- 07-27 003089, NC-CW-003089 F tal management systems EXPIRY DATE: 2024- 06-21 | d Controlled Wood CERTIFIER OR LAB: Preferred by Nature FSC® licence code : FSC-C006416 s CERTIFIER OR LAB: Bureau de |
| CERTIFICATION AND COMPLIANCE NOTES: Fulfills The F Formaldehyde (ULEF). SUSTAINABLE FORESTRY CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Tafisa Canada inc. CERTIFICATE URL: CERTIFICATION AND COMPLIANCE NOTES: Certificate re MANAGEMENT CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Tafisa Canada inc. | FSC Certification - Sing ISSUE DATE: 2016-07- 28 egistration code NC-COC-0 ISO 14001 Environment ISSUE DATE: 2021-06- 17 | gle Chain of Custody and EXPIRY DATE: 2022- 07-27 003089, NC-CW-003089 F tal management systems EXPIRY DATE: 2024- 06-21 | d Controlled Wood CERTIFIER OR LAB: Preferred by Nature FSC® licence code : FSC-C006416 s CERTIFIER OR LAB: Bureau de |

| MANAGEMENT | ISO 45001 SST Management Systems | | |
|--|----------------------------------|-----------------------------|--|
| CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Tafisa Canada inc. CERTIFICATE URL: | ISSUE DATE: 2021-06- 14 | EXPIRY DATE: 2024- 06-21 | CERTIFIER OR LAB: Bureau de Normalisation du Québec |

CERTIFICATION AND COMPLIANCE NOTES: Certificate Number: 55150-1-02

😑 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

Tafisa® particleboard panels can be specified in a wide variety of dimensions for efficient processing by furniture and millworker companies alike. Tafisa® offers two types of particleboard panels: TAFIPAN® EPA TSCA Title VI compliant and

TAFIPAN EVOLO: EPA TSCA Title VI compliant and CARB ULEF (Ultra Low Emitting Formaldehyde) certified.

MANUFACTURER INFORMATION

MANUFACTURER: Tafisa Canada inc. ADDRESS: 4660, Villeneuve Street Lac-Megantic Quebec G6B2C3, Canada WEBSITE: https://tafisa.ca/en CONTACT NAME: Jonathan Lamarre TITLE: Environmental Engineer PHONE: 819-583-2930 # 319 EMAIL: jlamarre@tafisa.ca

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)

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

LT-1 List Translator 1 (Likely Benchmark-1) LT-UNK List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping to a LT-1 or LTP1 score.) NoGS No GreenScreen.

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.

DECORATIVE PANELS (TFL) by Tafisa Canada inc.

HPD UNIQUE IDENTIFIER: 27932

CLASSIFICATION: 06 42 00 Wood Paneling

PRODUCT DESCRIPTION: This HPD covers the Tafisa® decorative panels (TFL). Tafisa® decorative panels is made by particleboard panels TAFIPAN or TAFIPAN-EVOLO, recovered with impregnated decor paper. TFL panels are used to build furniture, millwork, cabinetry and countertops. Available in more than 122 standard color and texture combinations. The collection comes with the most comprehensive complementary products program of the industry.

🟮 Section 1: Summary

CONTENT INVENTORY

- Inventory Reporting Format © Nested Materials Method © Basic Method
- Threshold Disclosed Per
- C Material
- O Product

- Threshold Level ○ 100 ppm ⊙ 1,000 ppm ○ Per GHS SDS ○ Other
- Residuals/Impurities Considered in 8 of 8 Materials Explanation(s) provided
- for Residuals/Impurities? ⊙ Yes ○ No

Nested Method / Product Threshold

 All Substances Above the Threshold Indicated Are:

 Characterized
 • Yes Ex/SC • Yes • No

 % weight and role provided for all substances except SC

 substances characterized according to SC guidance.

 Screened
 • Yes Ex/SC • Yes • No

 All substances screened using Priority Hazard Lists with results disclosed except SC substances screened according to SC guidance.

 Identified
 • Yes Ex/SC • Yes • No

One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special Condition did not follow guidance.

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY GREENSCREEN SCORE | HAZARD TYPE

SC:BIO:SC:BIO:BIOLOGICALMATERIAL [SC:WOOD PARTICLES Not Screened] UREA FORMALDEHYDE RESIN [UNDISCLOSED LT-UNK UNDISCLOSED BM-4 *UNDISCLOSED* BM-1 | END | DEV | MUL | REP | PHY | MAM UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK] WATER [WATER BM-4] IMPREGNATED DECOR PAPER #1 [UNDISCLOSED LT-UNK | RES UNDISCLOSED LT-UNK] IMPREGNATED DECOR PAPER #2 [UNDISCLOSED LT-UNK | RES UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 | RES *UNDISCLOSED* LT-P1 | END | CAN] CATALYST [AMMONIUM NITRATE LT-P1 | END WATER BM-4] WAX [UNDISCLOSED LT-1 | CAN | MUL UNDISCLOSED BM-4 UNDISCLOSED NoGS UNDISCLOSED LT-P1 | END | SKI | RES] SCAVENGER [WATER BM-4 UREA LT-UNK] Number of Greenscreen BM-4/BM3 contents ... 5

Contents highest concern GreenScreen Benchmark or List translator Score ... BM-1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

Special conditions applied: BiologicalMaterial

[LEED v4] "Yes ex/SC" result is due only to materials and substances for which Special Conditions were applied. Thus "Yes ex/SC" does not disqualify the product for the LEED v4 Materials and Resources Disclosure and Optimization credit, Option 1.

HPD prepared using a Nested Materials Inventory with a product threshold at 1,000 ppm. The content inventory includes decorative panels (TFL). The product contain materials with Special Conditions (biological material and reaction products, defined substances, recycled content - mixture) as per the HPDC. Reporting of Biological materials (SCBioMats/2018-02-23) was done according to HPDC Guidelines. Guidelines for reporting reaction products are still under development by HPDC. TAFISA Company will update the HPD accordingly once these guidelines get published. Adhesive substances at or above the threshold, have been declared as unreacted. Substances present in Substances present in decorative panels (TFL), as well as known residuals and impurities, have been disclosed at 1,000 ppm. Some ingredients are not diclosed because they are proprietary. More details about how residuals and impurities were considered available in the appropriate sections.

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 V1.2 (Section 01350/CHPS) - Not Applicable

Multi-attribute: Multi-attribute: CPA 4-19 Eco-Certified Composites (ECC)

Health Product Declaration v2.2

created via: HPDC Online Builder

Formaldehyde emissions: Substrate meet EPA TSCA Title VI (40 CFR 770), CAN/CSA 0160-16, ANSI A208.1, California Air Resources Board (CARB) Airborne Toxic Control Measures (ATCM) 93120. Sustainable forestry: FSC Certification - Single Chain of Custody and Controlled Wood.

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients Option 1

| Third Party Verified? | PREPARER: Vertima | SCREENING DATE: 2022-03-25 |
|-----------------------|------------------------------|---|
| ⊙ Yes ⊙ No | VERIFIER: VERIFICATION #: | PUBLISHED DATE: 2022-03-25 EXPIRY DATE: 2025-03-25 |
| © NO | | |

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

| SC:BIO:SC:BIO:BIOLOGICALMATERIAL %: 85. | 1000 - 86.8000 | | |
|--|--|---|--|
| PRODUCT THRESHOLD: 1000 ppm RESID | UALS AND IMPURITIES CONSIDER | D: No MATERIAL TYP | PE: Wood Dust, Fiber or Chips |
| RESIDUALS AND IMPURITIES NOTES: No residuals | or impurities suspected to be prese | nt in wood fiber. | |
| OTHER MATERIAL NOTES: SpecialConditionApplied vary as this HPD covers multiple particle board grad | | ition Applied: Biological Ma | aterial. Weight percentage may |
| SC:WOOD PARTICLES | | | ID: SC:Bio |
| HAZARD SCREENING METHOD: Pharos Chemic | al and Materials Library HAZARD | SCREENING DATE: Not S | creened |
| %: 100.0000 GS: Not Screened | RC: Both | NANO: No SUBSTANC | E ROLE: Structure component |
| HAZARD TYPE AGENCY AN | D LIST TITLES | /ARNINGS | |
| Hazard Scree | ening not performed | | |
| Version: SCBioMats/2018-02-23 Category: Tree-based materials Identifier: Softwood This disclosure does not provide information on a metabolic activities, pesticides, and other potent disclosure does not provide information on allerg metabolic activities, pesticides, and other potent Particleboard is made of pre-consumer and post and cuttings from manufacturing and converting plytrim, sawdust, fines, chips and bagasse. Post- construction, renovation and demolition and from | ial hazards or sources of hazards wi gens, hyper-accumulation of metals, ial hazards or sources of hazards wi -consumer recycled fibers. Pre-cons processes of primary wood product -consumer recycled materials includ | ich may be found in certain production of any toxic sub ich may be found in certain umer Recycled includes fib s. Examples of this category | n biological materials. This ostances during normal n biological materials. ber, such as scrap, trimmings y include planer shavings, |
| UREA FORMALDEHYDE RESIN %: 8.600 | 0 - 10.5000 | | |
| PRODUCT THRESHOLD: 1000 ppm RESIDUA | ALS AND IMPURITIES CONSIDERED | Yes MATERIAL T | TYPE: Polymeric Material |
| RESIDUALS AND IMPURITIES NOTES: According to based, is formaldehyde (CAS Number: 50-00-0). Acc information from their supplier, no chemical residual | ording to the supplier and based on | their technical/scientific kno | owledge as well as |
| OTHER MATERIAL NOTES: Weight percentage may | vary as this HPD covers multiple pa | ticle board grades and the | exact ratio is proprietary. |
| UNDISCLOSED | | | ID: Undisclosed |
| HAZARD SCREENING METHOD: Pharos Chemic | al and Materials Library HAZARD | SCREENING DATE: 2022- | 03-25 15:40:43 |
| %: 74.7600 - 75.9600 GS | : LT-UNK RC: Non | NANO: No SUB | |

WARNINGS

No warnings found on HPD Priority Hazard Lists

None found

SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary. Weight percentage may vary as this HPD covers multiple particle board grades and the exact ratio is proprietary.

| UNDISCLOSED | | | | ID: Undisclosed |
|--------------------------|---------------------------------------|------------|---------------|------------------------------------|
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCF | REENING DATE: | 2022-03-25 15:40:47 |
| %: 24.0100 - 24.0500 | GS: BM-4 | RC: None | NANO: No | SUBSTANCE ROLE: Diluent |
| HAZARD TYPE | AGENCY AND LIST TITLES | WARN | IINGS | |
| None found | | | No warnings | found on HPD Priority Hazard Lists |

SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary. Weight percentage may vary as this HPD covers multiple particle board grades and the exact ratio is proprietary.

| UNDISCLOSED | | ID: Undisclosed |
|--------------------------|--|--|
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCREENING DATE: 2022-03-25 15:40:50 |
| %: Impurity/Residual | GS: BM-1 | RC: None NANO: No SUBSTANCE ROLE: Impurity/Residual |
| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
| END | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor |
| DEV | CA EPA - Prop 65 | Developmental toxicity |
| DEV | US NIH - Reproductive & Developmenta Monographs | I Clear Evidence of Adverse Effects - Developmental Toxicity |
| MUL | German FEA - Substances Hazardous t Waters | Class 2 - Hazard to Waters |
| REP | GHS - Japan | H360 - May damage fertility or the unborn child [Toxic to reproduction - Category 1B] |
| РНҮ | EU - GHS (H-Statements) Annex 6 Table | H225 - Highly flammable liquid and vapour [Flammable liquids - Category 2] |
| MAM | EU - GHS (H-Statements) Annex 6 Table | H331 - Toxic if inhaled [Acute toxicity (inhalation) - Category 3] |
| MAM | EU - GHS (H-Statements) Annex 6 Table | H301 - Toxic if swallowed [Acute toxicity (oral) - Category 3] |
| МАМ | EU - GHS (H-Statements) Annex 6 Table | H311 - Toxic in contact with skin [Acute toxicity (dermal) Category 3] |
| МАМ | EU - GHS (H-Statements) Annex 6 Table | H370 - Causes damage to organs [Specific target organ toxicity - single exposure - Category 1] |

SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary. Weight percentage may vary as this HPD covers multiple particle board grades. Accoroding to the supplier, this substance is a residual.

UNDISCLOSED

ID: Undisclosed

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2022-03-25 15:40:51

| | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE ROLE: Surfactant |
|--|--|--|---|--|
| HAZARD TYPE | AGENCY AND LIST TITLES | WAR | NINGS | |
| None found | | | No warning | s found on HPD Priority Hazard Lis |
| | stance name is UnDisclosed because it is the exact ratio is proprietary. | proprietary. Weight | percentage ma | y vary as this HPD covers multiple |
| UNDISCLOSED | | | | ID: Undisclo |
| HAZARD SCREENING METH | HOD: Pharos Chemical and Materials Lil | brary HAZARD SC | REENING DATE | 2022-03-25 15:40:52 |
| %: 0.0000 - 0.7900 | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE ROLE: Surfactant |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAR | NINGS | |
| None found | | | No warning | s found on HPD Priority Hazard Lis |
| particle board grades and | the exact ratio is proprietary. | | | |
| | | | | |
| RODUCT THRESHOLD: 1000 ESIDUALS AND IMPURITIES THER MATERIAL NOTES: W | S NOTES: No data collected regarding this | s material. | | MATERIAL TYPE: Other: Water |
| RODUCT THRESHOLD: 1000 ESIDUALS AND IMPURITIES THER MATERIAL NOTES: W tandard water is used (munic | 0 ppm RESIDUALS AND IMPURI S NOTES: No data collected regarding this Veight percentage may vary as this HPD co | s material. overs multiple partic | e board grades | and the exact ratio is proprietary. ID: 7732-1 |
| RODUCT THRESHOLD: 1000 ESIDUALS AND IMPURITIES THER MATERIAL NOTES: W tandard water is used (munic WATER HAZARD SCREENING METH | 0 ppm RESIDUALS AND IMPURI S NOTES: No data collected regarding this Veight percentage may vary as this HPD co cipal). | s material. overs multiple partic | e board grades | and the exact ratio is proprietary. ID: 7732-1 |
| RODUCT THRESHOLD: 1000 ESIDUALS AND IMPURITIES THER MATERIAL NOTES: W tandard water is used (munic WATER HAZARD SCREENING METH | 0 ppm RESIDUALS AND IMPURI S NOTES: No data collected regarding this Veight percentage may vary as this HPD co cipal). | s material. overs multiple particl brary HAZARD SC RC: None | e board grades | and the exact ratio is proprietary. ID: 7732-1 E: 2022-03-25 15:40:43 |
| RODUCT THRESHOLD: 1000 ESIDUALS AND IMPURITIES THER MATERIAL NOTES: W tandard water is used (munic WATER HAZARD SCREENING METH %: 100.0000 | 0 ppm RESIDUALS AND IMPURI S NOTES: No data collected regarding this Veight percentage may vary as this HPD co cipal). HOD: Pharos Chemical and Materials Lil GS: BM-4 | s material. overs multiple particl brary HAZARD SC RC: None | e board grades REENING DATE NANO: No NINGS | and the exact ratio is proprietary. ID: 7732-1 E: 2022-03-25 15:40:43 |
| RODUCT THRESHOLD: 1000 ESIDUALS AND IMPURITIES THER MATERIAL NOTES: W tandard water is used (munic WATER HAZARD SCREENING METH %: 100.0000 HAZARD TYPE None found | 0 ppm RESIDUALS AND IMPURI S NOTES: No data collected regarding this Veight percentage may vary as this HPD co cipal). HOD: Pharos Chemical and Materials Lil GS: BM-4 | s material. overs multiple particl brary HAZARD SC RC: None WAR | e board grades REENING DATE NANO: No NINGS No warning | and the exact ratio is proprietary. ID: 7732-1 E: 2022-03-25 15:40:43 SUBSTANCE ROLE: Diluent |
| RODUCT THRESHOLD: 1000 ESIDUALS AND IMPURITIES THER MATERIAL NOTES: W tandard water is used (munic WATER HAZARD SCREENING METH %: 100.0000 HAZARD TYPE None found | 0 ppm RESIDUALS AND IMPURI S NOTES: No data collected regarding this Veight percentage may vary as this HPD co cipal). HOD: Pharos Chemical and Materials Lil GS: BM-4 AGENCY AND LIST TITLES | s material. overs multiple particl brary HAZARD SC RC: None WAR | e board grades REENING DATE NANO: No NINGS No warning | and the exact ratio is proprietary. ID: 7732-1 E: 2022-03-25 15:40:43 SUBSTANCE ROLE: Diluent |
| RODUCT THRESHOLD: 1000 ESIDUALS AND IMPURITIES THER MATERIAL NOTES: W tandard water is used (munic WATER HAZARD SCREENING METH %: 100.0000 HAZARD TYPE None found | 0 ppm RESIDUALS AND IMPURI S NOTES: No data collected regarding this Veight percentage may vary as this HPD co cipal). HOD: Pharos Chemical and Materials Lil GS: BM-4 AGENCY AND LIST TITLES | s material. overs multiple particl brary HAZARD SC RC: None WAR | e board grades REENING DATE NANO: No NINGS No warning | and the exact ratio is proprietary. ID: 7732-1 E: 2022-03-25 15:40:43 SUBSTANCE ROLE: Diluent |
| THER MATERIAL NOTES: W tandard water is used (munic WATER HAZARD SCREENING METH %: 100.0000 HAZARD TYPE None found | 0 ppm RESIDUALS AND IMPURI S NOTES: No data collected regarding this Veight percentage may vary as this HPD co cipal). HOD: Pharos Chemical and Materials Lil GS: BM-4 AGENCY AND LIST TITLES | s material. overs multiple particl brary HAZARD SC RC: None WAR | e board grades REENING DATE NANO: No NINGS No warning | and the exact ratio is proprietary. ID: 7732-1 E: 2022-03-25 15:40:43 SUBSTANCE ROLE: Diluent |
| RODUCT THRESHOLD: 1000 ESIDUALS AND IMPURITIES THER MATERIAL NOTES: W tandard water is used (munic WATER HAZARD SCREENING METH %: 100.0000 HAZARD TYPE None found SUBSTANCE NOTES: Accor MPREGNATED DECOR PAPI | 0 ppm RESIDUALS AND IMPURI S NOTES: No data collected regarding this Veight percentage may vary as this HPD co cipal). HOD: Pharos Chemical and Materials Lil GS: BM-4 AGENCY AND LIST TITLES oroding to the supplier, residual and imput | s material. overs multiple particl brary HAZARD SC RC: None WAR irity are below the the | e board grades REENING DATE NANO: No NINGS No warning reshold. | and the exact ratio is proprietary. ID: 7732-1 2022-03-25 15:40:43 SUBSTANCE ROLE: Diluent s found on HPD Priority Hazard Lis ATERIAL TYPE: Paper or Cardboar |

| AZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SC | REENING DA | ATE: | 2022-03-2 | 5 15:40:48 | |
|---|--|---|--------------|-------|--------------------------|---|-----------------|
| %: 20.0000 - 80.0000 | GS: LT-UNK | RC: None | NANO: No | SUB | STANCE R | DLE: Structure co | omponer |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAF | RNINGS | | | | |
| | AOEO Asthreesens | Acth | nmagen (Rs) | - sen | | | |
| RES SUBSTANCE NOTES: Weight pe | AOEC - Asthmagens | | 0 | | | atio is proprietar | y. Idisclose |
| SUBSTANCE NOTES: Weight pe | | Itiple particle b | board grades | s and | the exact r | atio is proprietary ID: Un | - |
| SUBSTANCE NOTES: Weight pe | ercentage may vary as this HPD covers mu | Itiple particle b | board grades | and | the exact r 2022-03-2 | atio is proprietary ID: Un | disclose |
| SUBSTANCE NOTES: Weight pe JNDISCLOSED IAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | Itiple particle b HAZARD SC RC: None | board grades | and | the exact r 2022-03-2 | atio is proprietary ID: Un 5 15:40:48 | disclose |

IMPREGNATED DECOR PAPER #2 %: 1.28

%: 1.2800 - 1.4600

PRODUCT THRESHOLD: 1000 ppm

m RESIDUALS AND IMPURITIES CONSIDERED: Yes

MATERIAL TYPE: Paper or Cardboard

RESIDUALS AND IMPURITIES NOTES: Supplier has reported residuals, and declared, based on their technical/scientific knowledge, that impurities were not present in their product.

OTHER MATERIAL NOTES: Weight percentage may vary as this HPD covers multiple particleboard grade, and this material comes from multiple suppliers. The composition of this material is confidential.

| UNDISCLOSED | | ID: Undisclose |
|---|--|--|
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCREENING DATE: 2022-03-25 15:40:47 |
| %: 35.6000 - 47.6000 | GS: LT-UNK | RC: None NANO: No SUBSTANCE ROLE: Structure component |
| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
| RES | AOEC - Asthmagens | Asthmagen (Rs) - sensitizer-induced |
| SUBSTANCE NOTES: Weight pe | ercentage may vary as this HPD covers mu | ultiple particle board grades and the exact ratio is proprietary |
| UNDISCLOSED | | ID: Undisclose |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCREENING DATE: 2022-03-25 15:40:49 |
| %: 13.0000 - 67.0000 | GS: LT-UNK | RC: None NANO: No SUBSTANCE ROLE: Binder |
| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
| None found | | No warnings found on HPD Priority Hazard Lists |
| SUBSTANCE NOTES: Weight pe | rcentage may vary as this HPD covers mu | ultiple particle board grades and the exact ratio is proprietary |
| UNDISCLOSED | | ID: Undisclose |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCREENING DATE: 2022-03-25 15:40:51 |
| %: 0.0000 - 38.0000 | GS: LT-P1 | RC: None NANO: No SUBSTANCE ROLE: Binder |
| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
| RES | AOEC - Asthmagens | Asthmagen (Rs) - sensitizer-induced |
| SUBSTANCE NOTES: Weight pe | ercentage may vary as this HPD covers mu | ultiple particle board grades and the exact ratio is proprietary |
| UNDISCLOSED | | ID: Undisclose |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCREENING DATE: 2022-03-25 15:40:52 |
| %: Impurity/Residual | GS: LT-P1 | RC: None NANO: No SUBSTANCE ROLE: Impurity/Residua |
| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
| END | TEDX - Potential Endocrine Disruptors | s Potential Endocrine Disruptor |
| CAN | IARC | Group 2b - Possibly carcinogenic to humans |
| SUBSTANCE NOTES: Weight pe According to the supplier, this se | | ultiple particle board grades and the exact ratio is proprietary. |
| ATALYST | %: 0.5000 - 0.6000 | |
| RODUCT THRESHOLD: 1000 ppm ESIDUALS AND IMPURITIES NOT resent in their product. | | echnical/scientific knowledge, that no residuals and impurities were |

OTHER MATERIAL NOTES: Weight percentage may vary as this HPD covers multiple particleborad grade of products, Some substances fall below the reportable thershold, and are not reported in the content inventory.

| AZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCF | REENING DATE: | 2022-03-25 15:40:44 |
|--|---|--|--|---|
| %: 50.0000 - 60.0000 | GS: LT-P1 | RC: None | NANO: No | SUBSTANCE ROLE: Catalyst |
| HAZARD TYPE | AGENCY AND LIST TITLES | WARN | IINGS | |
| END | TEDX - Potential Endocrine Disruptors | Poten | tial Endocrine Di | sruptor |
| SUBSTANCE NOTES: Weight p | ercentage may vary as this HPD covers mu | ltiple particle b | oard grades and | I the exact ratio is proprietary. |
| VATER | | | | ID: 7732-1 8- |
| AZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCF | REENING DATE: | 2022-03-25 15:40:45 |
| 6: 50.0000 - 60.0000 | GS: BM-4 | RC: None | NANO: No | SUBSTANCE ROLE: Diluent |
| HAZARD TYPE | AGENCY AND LIST TITLES | WARN | IINGS | |
| | | | | |
| None found | | | No warnings | found on HPD Priority Hazard Lists |
| SUBSTANCE NOTES: Weight p Accoroding to the supplier, resi | ercentage may vary as this HPD covers mu dual and impurity are below the threshold. %: 0.3000 - 0.4000 | ltiple particle b | _ | - |
| SUBSTANCE NOTES: Weight p Accoroding to the supplier, resi | dual and impurity are below the threshold. %: 0.3000 - 0.4000 | | oard grades and | the exact ratio is proprietary. |
| SUBSTANCE NOTES: Weight per Accoroding to the supplier, resident X ODUCT THRESHOLD: 1000 ppm SIDUALS AND IMPURITIES NOT heir product. However, no tests s paraffin (8002-74-2) and paraffither HER MATERIAL NOTES: Wax is | dual and impurity are below the threshold. %: 0.3000 - 0.4000 n RESIDUALS AND IMPURITIES COI TES: Suppliers declared, based on technica were performed on their product. Accordin | NSIDERED: Yes al/scientific kno ng to Pharos, kn is UnDisclosed | oard grades and s MATE wledge, that no nown or potentia | I the exact ratio is proprietary. ERIAL TYPE: Polymeric Material residuals or impurities were preser I residuals for slack wax (64742-61 |

| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCREENING DATE: 2022-03-25 15:40:44 |
|--------------------------|--|--|
| %: 50.0000 - 60.0000 | GS: LT-1 | RC: None NANO: No SUBSTANCE ROLE: Water resistance |
| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
| CAN | EU - REACH Annex XVII CMRs | Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man |
| CAN | EU - Annex VI CMRs | Carcinogen Category 1B - Presumed Carcinogen based on animal evidence |
| MUL | ChemSec - SIN List | CMR - Carcinogen, Mutagen &/or Reproductive Toxican |
| MUL | German FEA - Substances Hazardous to Waters | Class 3 - Severe Hazard to Waters |
| CAN | GHS - Australia | H350 - May cause cancer [Carcinogenicity - Category 1A or 1B] |
| CAN | EU - GHS (H-Statements) Annex 6 Table | 3-1 H350 - May cause cancer [Carcinogenicity - Category 1/ or 1B] |

SUBSTANCE NOTES: Substance is undisclosure because it is proprietary. Weight percentage may vary as this HPD covers multiple particle board grades and the exact ratio is proprietary.

| AZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SC | REENING DATE: | 2022-03-25 15:40:46 |
|--|---|---------------|------------------|-------------------------------------|
| ⁄o: 40.0000 - 50.0000 | GS: BM-4 | RC: None | NANO: No | SUBSTANCE ROLE: Diluent |
| HAZARD TYPE | AGENCY AND LIST TITLES | WARI | NINGS | |
| None found | | | No warnings | found on HPD Priority Hazard Lists |
| SUBSTANCE NOTES: Substanc board grades and the exact ration | e is undisclosure because it is proprietary. o is proprietary. | Weight percei | ntage may vary a | s this HPD covers multiple particle |
| INDISCLOSED | | | | ID: Undisclose |
| AZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SC | REENING DATE: | 2022-03-25 15:40:50 |
| ⁄o: 0.5000 - 3.0000 | GS: NoGS | RC: None | NANO: No | SUBSTANCE ROLE: Surfactant |
| HAZARD TYPE | AGENCY AND LIST TITLES | WARI | NINGS | |
| None found | | | No warnings | found on HPD Priority Hazard Lists |
| SUBSTANCE NOTES: Substanc board grades and the exact ration | e is undisclosure because it is proprietary. o is proprietary. | Weight percer | ntage may vary a | s this HPD covers multiple particle |
| INDISCLOSED | | | | ID: Undisclose |
| AZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SC | REENING DATE: | 2022-03-25 15:40:49 |
| | GS: LT-P1 | RC: None | NANO: No | SUBSTANCE ROLE: Surfactant |

| | HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|---|---|---|--|
| | END | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor |
| | SKI | МАК | Sensitizing Substance Sh - Danger of skin sensitization |
| | RES | AOEC - Asthmagens | Asthmagen (Rs) - sensitizer-induced |
| | SKI | EU - GHS (H-Statements) Annex 6 Table 3-1 | H314 - Causes severe skin burns and eye damage [Skin corrosion/irritation - Category 1A or 1B or 1C] |
| | SUBSTANCE NOTES: Substance particleboard grades and the exact | | t percentage may vary as this HPD covers multiple |
| S | CAVENGER | %: 0.1000 - 0.6000 | |
| F | RODUCT THRESHOLD: 1000 ppm | RESIDUALS AND IMPURITIES CONSIDE | RED: Yes MATERIAL TYPE: Polymeric Material |

RESIDUALS AND IMPURITIES NOTES: Suppliers declared, based on technical/scientific knowledge, that no residuals or impurities were present in their product; however, no such tests were performed on their product.

OTHER MATERIAL NOTES: Weight percentage may vary as this HPD covers multiple particleboard grades and the exact ratio is proprietary.

| AZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SC | REENING DATE: | 2022-03-25 15:40:45 |
|---|--|-----------------------|--------------------|--|
| %: 49.0000 - 51.0000 | GS: BM-4 | RC: None | NANO: No | SUBSTANCE ROLE: Diluent |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAR | NINGS | |
| None found | | | No warnings | found on HPD Priority Hazard Li |
| particleboard grades and the ex | e is undisclosure because it is proprietary. act ratio is proprietary. Accoroding to the s | 0. | | are below the threshold. |
| particleboard grades and the ex | act ratio is proprietary. Accoroding to the | supplier, reside | ual and impurity a | are below the threshold. |
| Particleboard grades and the ex REA AZARD SCREENING METHOD: | Accoroding to the second secon | HAZARD SC | al and impurity a | are below the threshold. ID: 57- 2022-03-25 15:40:46 |
| particleboard grades and the ex REA AZARD SCREENING METHOD: | act ratio is proprietary. Accoroding to the | supplier, reside | ual and impurity a | are below the threshold. |
| particleboard grades and the ex | Accoroding to the second secon | HAZARD SC RC: None | al and impurity a | are below the threshold. ID: 57- 2022-03-25 15:40:46 |

SUBSTANCE NOTES: Substance is undisclosure because it is proprietary. Weight percentage may vary as this HPD covers multiple particle board grades and the exact ratio is proprietary.

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 V1.2 (Section 01350/CHPS) - Not Applicable | | | | |
|---|---|--------------|--|--|--|
| CERTIFYING PARTY: Second Party APPLICABLE FACILITIES: TAFISA Canada inc. | ISSUE DATE: 2019-06- 17 | EXPIRY DATE: | CERTIFIER OR LAB: Composite Panel Association | | |
| CERTIFICATE URL: | | | | | |

CERTIFICATION AND COMPLIANCE NOTES: According to LEED v4, emissions and content requirements for Composite Wood are to follow the Composite Wood Evaluation which states: "Composite wood, as defined by the California Air Resources Board, Airborne Toxic Measure to Reduce Formaldehyde Emissions from Composite Wood Products Regulation, must be documented to have low formaldehyde emissions that meet the California Air Resources Board ATCM for formaldehyde requirements for ultra-low-emitting formaldehyde (ULEF) resins or no added formaldehyde resins.

| MULTI-ATTRIBUTE | Multi-attribute: CPA 4- | Multi-attribute: CPA 4-19 Eco-Certified Composites (ECC) | | | | | |
|--|--------------------------------|--|--|--|--|--|--|
| CERTIFYING PARTY: Second Party APPLICABLE FACILITIES: TAFISA Canada inc. CERTIFICATE URL: | ISSUE DATE: 2019-01- 02 | EXPIRY DATE: | CERTIFIER OR LAB: Composite Panel Association | | | | |
| CERTIFICATION AND COMPLIANCE NOTES: Carbon Sustainable Use of Wood Fiber; Responsible Wood So | | otprint; Locally Sourced Fiber; Recycled, Recovered or Post-Consumer Fiber Content; cing. | | | | | |
| FORMALDEHYDE EMISSIONS | | Substrate meet EPA TSCA Title VI (40 CFR 770), CAN/CSA 0160-16, ANSI A208.1, California Air Resources Board (CARB) Airborne Toxic Control Measures (ATCM) 93120. | | | | | |
| CERTIFYING PARTY: Second Party APPLICABLE FACILITIES: Tafisa Canada inc. CERTIFICATE URL: | ISSUE DATE: 2019-06- 17 | EXPIRY DATE: | CERTIFIER OR LAB: Composition Panel Association | | | | |
| CERTIFICATION AND COMPLIANCE NOTES: Fulfills T A208.1, California Air Resources Board (CARB) Airbor | | | /I (40 CFR 770), CAN/CSA-0160-16, ANS | | | | |
| SUSTAINABLE FORESTRY | FSC Certification - Sing | FSC Certification - Single Chain of Custody and Controlled Wood. | | | | | |
| CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Tafisa Canada inc. CERTIFICATE URL: | ISSUE DATE: 2016-07- 28 | EXPIRY DATE: 2022- 07-27 | CERTIFIER OR LAB: Preferred by Nature | | | | |
| CERTIFICATION AND COMPLIANCE NOTES: Certifica | ate registration code NC-COC-0 | 03089, NC-CW-003089 | FSC® licence code : FSC-C006416 | | | | |
| MANAGEMENT | ISO 14001 Environmen | ISO 14001 Environmental management systems. | | | | | |
| CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Tafisa Canada inc. CERTIFICATE URL: | ISSUE DATE: 2021-06- 17 | EXPIRY DATE: 2024- 06-21 | CERTIFIER OR LAB: Bureau de Normalisation du Québec | | | | |
| CERTIFICATION AND COMPLIANCE NOTES: Certifica | ate Number: 55149-1-02 | | | | | | |
| MANAGEMENT | ISO 9001 Quality mana | ISO 9001 Quality management systems. | | | | | |
| CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Tafisa Canada inc. CERTIFICATE URL: | ISSUE DATE: 2021-06- 14 | EXPIRY DATE: 2024- 06-21 | CERTIFIER OR LAB: Bureau de Normalisation du Québec | | | | |
| CERTIFICATION AND COMPLIANCE NOTES: Certifica | ate Number: 55148-1-02 | | | | | | |
| MANAGEMENT | ISO 45001 SST Manage | ISO 45001 SST Management Systems. | | | | | |
| CERTIFYING PARTY: Third Party | ISSUE DATE: 2021-06- | EXPIRY DATE: 2024- | CERTIFIER OR LAB: Bureau | | | | |

14

06-21

| APPTICIALTIAN AND AANDU ANAC NATEA | ~ | | | |
|------------------------------------|---|--|--|--|
| | | | | |

CERTIFICATE URL:

APPLICABLE FACILITIES: Tafisa Canada inc.

Normalisation du Québec

| FORMALDEHYDE EMISSIONS | Substrate meet CARB Composite Wood ATCM CA 93120 Ultra Low-Emitting Formaldehyde (ULEF) | | | | | |
|---|--|---|--|--|--|--|
| CERTIFYING PARTY: Second Party APPLICABLE FACILITIES: Tafisa Canada inc. CERTIFICATE URL: | ISSUE DATE: 2021-09- 09 | ISSUE DATE: 2021-09-EXPIRY DATE: 2022-CERTIFIER OR LAB: Compose0905-07Panel Association | | | | |

CERTIFICATION AND COMPLIANCE NOTES: Fulfills The Requirements Of: Substrate meet CARB Composite Wood ATCM CA 93120 Ultra Low-Emitting.

😑 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

Tafisa® decorative panels can be specified in a wide variety of dimensions for efficient processing by furniture and millworker companies alike. Tafisa® offers two types of decorative panels: TAFIPAN® EPA TSCA Title VI compliant and TAFIPAN-EVOLO: EPA TSCA Title VI compliant and CARB ULEF (Ultra Low Emitting Formaldehyde) certified.

MANUFACTURER INFORMATION

MANUFACTURER: Tafisa Canada inc. ADDRESS: 4660, Villeneuve Street Lac-Megantic Quebec G6B2C3, Canada WEBSITE: https://tafisa.ca/en

CONTACT NAME: Jonathan Lamarre TITLE: Environmental Engineer PHONE: 819-583-2930 # 319 EMAIL: jlamarre@tafisa.ca

LT-1 List Translator 1 (Likely Benchmark-1)

to a LT-1 or LTP1 score.)

NoGS No GreenScreen.

LT-UNK List Translator Benchmark Unknown (the chemical is

information contained within the list did not result in a clear mapping

present on at least one GreenScreen Specified List, but the

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)

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.

LUMMIA by Tafisa Canada inc.

HPD UNIQUE IDENTIFIER: 27933

CLASSIFICATION: 06 42 00 Wood Paneling

PRODUCT DESCRIPTION: This HPD covers the Tafisa® decorative panels LUMMIA. Tafisa® LUMMIA panels is a TFL lacquered panels. Made using superior coating technology, LUMMIA is available in two long-lasting finishes: High Gloss and Perfect Matt. LUMMIA High Gloss strikingly reflects light for maximum shine and LUMMIA Perfect Matt delivers exceptional visual depth. The product's durability is unmatched, fully resistant to fingerprints, micro-scratches and UV rays. The collection will be available in a wide choice of 19 solid colours and prints. LUMMIA panels are used for furniture, millwork, cabinetry and countertops.

Section 1: Summary

CONTENT INVENTORY

- Inventory Reporting Format
- Nested Materials Method
- C Basic Method
- Threshold Disclosed Per
- O Material
- O Product

Threshold Level C 100 ppm C 1,000 ppm C Per GHS SDS C Other Residuals/Impurities Considered in 14 of 14 Materials

Explanation(s) provided for Residuals/Impurities? • Yes • No

Nested Method / Product Threshold

 All Substances Above the Threshold Indicated Are:

 Characterized
 • Yes Ex/SC • Yes • No

 % weight and role provided for all substances except SC

 substances characterized according to SC guidance.

 Screened
 • Yes Ex/SC • Yes • No

 All substances screened using Priority Hazard Lists with results disclosed except SC substances screened according to SC guidance.

 Identified
 • Yes Ex/SC • Yes • No

 One or more substances not disclosed by Name (Specific

One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special Condition did not follow guidance.

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY GREENSCREEN SCORE | HAZARD TYPE

SC:BIO:SC:BIO:BIOLOGICALMATERIAL [SC:SC: WOOD FIBER Not Screened] UREA FORMALDEHYDE RESIN [UNDISCLOSED LT-UNK UNDISCLOSED BM-4 UNDISCLOSED BM-1 | END | DEV | MUL | REP | PHY | MAM UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK] HIGH PRESSURE LAMINATED #1 [PAPER LT-UNK | RES MELAMINE/FORMALDEHYDE RESIN LT-UNK] HIGH PRESSURE LAMINATED #2 [UNDISCLOSED LT-UNK | RES UNDISCLOSED LT-UNK METHYL ALCOHOL BM-1 | END | DEV | MUL | REP | PHY | MAM UNDISCLOSED LT-P1 | RES] CATALYST [WATER BM-4 AMMONIUM NITRATE LT-P1 | END] WATER [WATER BM-4] WAX [UNDISCLOSED LT-1 | CAN | MUL UNDISCLOSED BM-4 UNDISCLOSED NoGS UNDISCLOSED LT-P1 | END | SKI | RES] LACQUER (FINISH HIGH GLOSS) [UNDISCLOSED LT-UNK UNDISCLOSED LT-1 | CAN | END UNDISCLOSED BM-1 UNDISCLOSED NoGS UNDISCLOSED LT-P1 UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 | RES UNDISCLOSED NoGS UNDISCLOSED LT-UNK UNDISCLOSED BM-1 | CAN UNDISCLOSED LT-UNK UNDISCLOSED BM-1 | CAN] LACQUER (FINISH MATT) [UNDISCLOSED LT-1 | CAN | END UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 | SKI | MUL | EYE UNDISCLOSED LT-UNK UNDISCLOSED NoGS UNDISCLOSED NoGS UNDISCLOSED BM-1 | CAN UNDISCLOSED LT-UNK | SKI UNDISCLOSED LT-P1 | RES UNDISCLOSED LT-UNK UNDISCLOSED NoGS UNDISCLOSED LT-P1 UNDISCLOSED NoGS UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK] POLYURETHANE **RESIN [UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK** UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK | RES | SKI | EYE | MAM

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

Contents highest concern GreenScreen Benchmark or List translator Score ... BM-1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

Special conditions applied: BiologicalMaterial

[LEED v4] "Yes ex/SC" result is due only to materials and substances for which Special Conditions were applied. Thus "Yes ex/SC" does not disqualify the product for the LEED v4 Materials and Resources Disclosure and Optimization credit, Option 1.

HPD prepared using a Nested Materials Inventory with a product threshold at 1,000 ppm. The content inventory includes LUMMIA products with range of high gloss and perfect matt finition. LUMMIA contains materials with Special Conditions (biological material and reaction products, defined substances, recycled content - mixture) as per the HPDC. Reporting of Biological materials was done according to HPDC Guidelines. Guidelines for reporting reaction products are still under development by HPDC. TAFISA Company will update the HPD accordingly once these guidelines get published. They are differents lacquer materials applied on this product. They are base one and alternative one. Lacquer (top layer #1) is used with lacquer (bottom layer #1). Lacquer (top layer #2) is used with lacquer (bottom layer #2). Substances presents in LUMMIA, as well as known residuals and impurities, have been disclosed at 1,000 ppm. Some ingredients are not diclosed because they are proprietary. More details about how residuals and impurities were available in the appropriate sections.

UNDISCLOSED LT-P1 | MUL UNDISCLOSED NoGS UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK] LACQUER (TOP LAYER #1) [UNDISCLOSED BM-1 UNDISCLOSED LT-UNK UNDISCLOSED LT-1 CAN | END UNDISCLOSED BM-3dg UNDISCLOSED LT-P1 | SKI | MUL | EYE | AQU UNDISCLOSED LT-P1 UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 | SKI UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 | RES UNDISCLOSED LT-UNK | SKI UNDISCLOSED LT-UNK UNDISCLOSED NoGS UNDISCLOSED LT-P1 | MUL UNDISCLOSED NoGS UNDISCLOSED LT-P1 | END | MUL | CAN | GEN | MAM UNDISCLOSED LT-UNK] LACQUER (TOP LAYER #2) [UNDISCLOSED BM-1 UNDISCLOSED LT-P1 | SKI | MUL | EYE | AQU UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 | SKI | MUL | EYE UNDISCLOSED BM-1 | CAN UNDISCLOSED LT-1 | END | CAN | MUL | GEN | MAM UNDISCLOSED LT-UNK UNDISCLOSED NoGS] LACQUER (BOTTOM LAYER #1) [UNDISCLOSED BM-3dg UNDISCLOSED LT-1] CAN | END UNDISCLOSED LT-P1 | SKI | MUL | EYE | AQU UNDISCLOSED LT-UNK UNDISCLOSED BM-1 UNDISCLOSED LT-P1 UNDISCLOSED LT-P1 | RES UNDISCLOSED NoGS UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK | SKI UNDISCLOSED NoGS UNDISCLOSED NoGS UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 | MUL] LACQUER (BOTTOM LAYER #2) [UNDISCLOSED BM-1 UNDISCLOSED NoGS UNDISCLOSED LT-P1 | SKI | MUL | EYE | AQU UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 | SKI | MUL | EYE UNDISCLOSED BM-1 | CAN UNDISCLOSED LT-1 | END | CAN | MUL | GEN | MAM UNDISCLOSED LT-UNK UNDISCLOSED NoGS UNDISCLOSED LT-P1 | MUL]

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: VOC emissions: CDPH Standard Method V1.2 (Section 01350/CHPS) - Not applicable

Multi-attribute: Multi-attribute: CPA 4-19 Eco-Certified Composites (ECC) Formaldehyde emissions: Substrate meet EPA TSCA Title VI (40 CFR 770), CAN/CSA-0160-16, ANSI A208.1 California Air Resources Board (CARB) Airborne Toxic Control Measures (ATCM) 93120.

Formaldehyde emissions: Substrate meet CARB Composite Wood ATCM CA 93120 Ultra Low-Emitting Formaldehyde (ULEF).

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients Option 1

Third Party Verified? C Yes © No PREPARER: Vertima VERIFIER: VERIFICATION #: SCREENING DATE: 2022-03-25 PUBLISHED DATE: 2022-03-25 EXPIRY DATE: 2025-03-25 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 2.2, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-2-standard

| ľ | SC:BIO:SC:BIO:BIOLOGICALMATERIAL | %: 82.0100 | | | | | | | |
|---|---|---|--|--|---|--|--|--|--|
| | PRODUCT THRESHOLD: 1000 ppm | RESIDUALS AND IMPURITIES C | ONSIDERED | : No MAT | TERIAL TY | PE: Wood Dus | t, Fiber or Chips | | |
| | RESIDUALS AND IMPURITIES NOTES: No residuals or impurities suspected to be present in wood fiber. | | | | | | | | |
| | OTHER MATERIAL NOTES: SpecialConditionApplied:BiologicalMaterial Special Condition Applied: Biological Material | | | | | | | | |
| | SC:SC: WOOD FIBER | | | | | | ID: SC:Bio | | |
| | HAZARD SCREENING METHOD: Pharos | s Chemical and Materials Library | HAZARD S | CREENING DA | ATE: Not | Screened | | | |
| | %: 100.0000 GS: Not : | Screened | RC: Both | NANO: No | SUBSTAN | CE ROLE: Stru | cture component | | |
| | HAZARD TYPE AGE | ENCY AND LIST TITLES | WA | RNINGS | | | | | |
| | Haz | ard Screening not performed | | | | | | | |
| | SUBSTANCE NOTES: Version: SCBioMats/2018-02-23 Category: Tree-based materials Identifier: 9004-34-6 This disclosure does not provide inform metabolic activities, pesticides, and oth disclosure does not provide information metabolic activities, pesticides, and oth Wood fibers in particleboard used for LI includes fiber, such as scrap, trimmings this category include planer shavings, p are generated by households or by com | er potential hazards or sources of l on allergens, hyper-accumulation er potential hazards or sources of l UMMIA product is made of pre-con and cuttings from manufacturing a lytrim, sawdust, fines, chips and ba | nazards whic of metals, pro- nazards whic sumer and p and convertin agasse. Post- | h may be four oduction of ar h may be four ost-consumer ng processes o | nd in certa ny toxic su nd in certa r recycled of primary | in biological ma bstances durin in biological ma fibers. Pre-con wood products | aterials. This ng normal aterials. Insumer Recycled s. Examples of | | |
| | PRODUCT THRESHOLD: 1000 ppm | RESIDUALS AND IMPURITIES CO | NSIDERED: ` | Yes | MATERIA | L TYPE: Polym | eric Material | | |
| | RESIDUALS AND IMPURITIES NOTES: Acc is formaldehyde (CAS Number: 50-00-0). N | - | ial residual fo | or Formaldehy | de compo | ounds, Urea for | maldehyde based, | | |
| | OTHER MATERIAL NOTES: Weight percen | tage may not vary as this HPD cove | ers only one p | particle board | grade. | | | | |
| | UNDISCLOSED | | | | | | ID: Undisclosed | | |
| | HAZARD SCREENING METHOD: Pharos | s Chemical and Materials Library | HAZARD S | CREENING DA | ATE: 2022 | 2-03-25 15:57:4 | 19 | | |
| | %: 88.8900 - 89.2100 | GS: LT-UNK | RC: None | NANO: N | lo S | UBSTANCE RC | DLE: Binder | | |
| | HAZARD TYPE AGE | ENCY AND LIST TITLES | WA | RNINGS | | | | | |
| | None found | | | No war | rnings four | nd on HPD Pric | ority Hazard Lists | | |

SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary. Weight percentage may vary because the exact ratio is prprietary.

| HAZARD SCREENING METHOD | Pharos Chemical and Materials Library | ΗΔ7ΔRΓ |) SCREENING DA | ATE: 2022-03-25 15:58:04 |
|-------------------------|---|-----------|---|---|
| %: 8.9500 - 10.8000 | GS: BM-4 | RC: Non | | |
| | | 110. 1101 | | o oborance note. Bildent |
| HAZARD TYPE | AGENCY AND LIST TITLES | | WARNINGS | |
| None found | | | No war | rnings found on HPD Priority Hazard Li |
| | e name is UnDisclosed because it is propri cause the exact ratio is proprietary. | ietary. | | |
| INDISCLOSED | | | | ID: Undisclo |
| AZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD | SCREENING DA | ATE: 2022-03-25 15:58:38 |
| %: Impurity/Residual | GS: BM-1 | RC: Non | e NANO: No | SUBSTANCE ROLE: Impurity/Resid |
| HAZARD TYPE | AGENCY AND LIST TITLES | | WARNINGS | |
| END | TEDX - Potential Endocrine Disruptors | | Potential Endocri | ine Disruptor |
| DEV | CA EPA - Prop 65 | | Developmental to | oxicity |
| DEV | US NIH - Reproductive & Development Monographs | | Clear Evidence o Toxicity | f Adverse Effects - Developmental |
| MUL | German FEA - Substances Hazardous Waters | to | Class 2 - Hazard | to Waters |
| REP | GHS - Japan | | H360 - May dama reproduction - Ca | age fertility or the unborn child [Toxic t ategory 1B] |
| РНҮ | EU - GHS (H-Statements) Annex 6 Tab | | H225 - Highly flar liquids - Categor | mmable liquid and vapour [Flammable y 2] |
| MAM | EU - GHS (H-Statements) Annex 6 Tab | | H331 - Toxic if in Category 3] | haled [Acute toxicity (inhalation) - |
| MAM | EU - GHS (H-Statements) Annex 6 Tab | | H301 - Toxic if sv 3] | vallowed [Acute toxicity (oral) - Catego |
| МАМ | EU - GHS (H-Statements) Annex 6 Tab | | H311 - Toxic in c Category 3] | ontact with skin [Acute toxicity (derma |
| | | | | |

SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary.

Weight percentage may vary. Depends to the ratio of each substance used in the mixture to manufacture the particleboard involve in LUMMIA product.

| UNDISCLOSED | | | | ID: Undisclosed |
|------------------------------|------------------------------------|------------|--------------|----------------------------|
| HAZARD SCREENING METHOD: Pha | ros Chemical and Materials Library | HAZARD SCR | EENING DATE: | 2022-03-25 15:58:39 |
| %: 0.0000 - 0.3400 | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE ROLE: Surfactant |

| None found | | No | warnings found on HPD Priority Hazard Li |
|---|---|--|---|
| | ance name is UnDisclosed because it is propr because the exact ratio is proprietary | rietary. | |
| INDISCLOSED | | | ID: Undisclo |
| AZARD SCREENING METHO | D: Pharos Chemical and Materials Library | HAZARD SCREENIN | G DATE: 2022-03-25 15:58:39 |
| 6: 0.0000 - 1.7000 | GS: LT-UNK | RC: None NAN | D: No SUBSTANCE ROLE: Surfactant |
| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS | |
| None found | | No | warnings found on HPD Priority Hazard Li |
| | ance name is UnDisclosed because it is propr as the exact ratio is proprietary. | rietary. | |
| GH PRESSURE LAMINATED | | | |
| ODUCT THRESHOLD: 1000 p | RESIDUALS AND IMPURITIES CO | ONSIDERED: Yes | MATERIAL TYPE: Paper or Cardboard |
| | | | |
| | IOTES: Supplier declared, based on their tech | hnical/scientific knowle | dge, that residuals and impurities were not |
| esent in their product. | | | |
| esent in their product. THER MATERIAL NOTES: Wei | IOTES: Supplier declared, based on their tech ght percentage may not vary as this HPD cov GREENGUARD and GREENGUARD Gold. | | |
| esent in their product. THER MATERIAL NOTES: Wei | ght percentage may not vary as this HPD cov | | |
| esent in their product. HER MATERIAL NOTES: Wei nfidential. Supplier is certified | ght percentage may not vary as this HPD cov | vers only one particle b | bard grade. The composition of this materia |
| esent in their product. HER MATERIAL NOTES: Wei Infidential. Supplier is certified PAPER IAZARD SCREENING METHO | ght percentage may not vary as this HPD cov GREENGUARD and GREENGUARD Gold. | vers only one particle be | bard grade. The composition of this materia |
| esent in their product. HER MATERIAL NOTES: Wei Infidential. Supplier is certified PAPER IAZARD SCREENING METHO 6: 20.0000 - 80.0000 | ght percentage may not vary as this HPD cov GREENGUARD and GREENGUARD Gold. D: Pharos Chemical and Materials Library | vers only one particle be | Dard grade. The composition of this materia ID: 9004- G DATE: 2022-03-25 15:57:57 |
| esent in their product. HER MATERIAL NOTES: Wei Infidential. Supplier is certified APER IAZARD SCREENING METHO 6: 20.0000 - 80.0000 HAZARD TYPE | ght percentage may not vary as this HPD cov GREENGUARD and GREENGUARD Gold. D: Pharos Chemical and Materials Library GS: LT-UNK | HAZARD SCREENIN RC: None NANO: N WARNINGS | Dard grade. The composition of this materia ID: 9004- G DATE: 2022-03-25 15:57:57 |
| esent in their product. HER MATERIAL NOTES: Wei Infidential. Supplier is certified PAPER IAZARD SCREENING METHO 6: 20.0000 - 80.0000 HAZARD TYPE RES | ght percentage may not vary as this HPD cov GREENGUARD and GREENGUARD Gold. D: Pharos Chemical and Materials Library GS: LT-UNK AGENCY AND LIST TITLES | Vers only one particle by HAZARD SCREENIN RC: None NANO: N WARNINGS Asthmagen | Dard grade. The composition of this materia ID: 9004- G DATE: 2022-03-25 15:57:57 IO SUBSTANCE ROLE: Structure compo |
| esent in their product. "HER MATERIAL NOTES: Wei Infidential. Supplier is certified PAPER HAZARD SCREENING METHO 6: 20.0000 - 80.0000 HAZARD TYPE RES | ght percentage may not vary as this HPD cov I GREENGUARD and GREENGUARD Gold. D: Pharos Chemical and Materials Library GS: LT-UNK AGENCY AND LIST TITLES AOEC - Asthmagens t percentage may vary as the exact ratio is pr | Vers only one particle by HAZARD SCREENIN RC: None NANO: N WARNINGS Asthmagen | Dard grade. The composition of this materia ID: 9004- G DATE: 2022-03-25 15:57:57 IO SUBSTANCE ROLE: Structure compo |
| APER IAZARD SCREENING METHO 6: 20.0000 - 80.0000 HAZARD TYPE RES SUBSTANCE NOTES: Weigh | ght percentage may not vary as this HPD cov I GREENGUARD and GREENGUARD Gold. D: Pharos Chemical and Materials Library GS: LT-UNK AGENCY AND LIST TITLES AOEC - Asthmagens t percentage may vary as the exact ratio is pr | Vers only one particle by HAZARD SCREENIN RC: None NANO: N WARNINGS Asthmagen | Dard grade. The composition of this materia ID: 9004- G DATE: 2022-03-25 15:57:57 IO SUBSTANCE ROLE: Structure compo (Rs) - sensitizer-induced ID: Undiscle |
| ASSENT IN THEIR PRODUCT. HER MATERIAL NOTES: Wei INFIDENTIAL Supplier is certified APER IAZARD SCREENING METHO 6: 20.0000 - 80.0000 HAZARD TYPE RES SUBSTANCE NOTES: Weigh IELAMINE/FORMALDEHYDE IAZARD SCREENING METHO | ght percentage may not vary as this HPD cov I GREENGUARD and GREENGUARD Gold. D: Pharos Chemical and Materials Library GS: LT-UNK AGENCY AND LIST TITLES AOEC - Asthmagens t percentage may vary as the exact ratio is pr | HAZARD SCREENIN RC: None NANO: N WARNINGS Asthmagen roprietary. | Dard grade. The composition of this materia ID: 9004- G DATE: 2022-03-25 15:57:57 IO SUBSTANCE ROLE: Structure compo (Rs) - sensitizer-induced ID: Undiscle |
| APPER AZARD SCREENING METHO AZARD TYPE RES SUBSTANCE NOTES: Weigh AZARD SCREENING METHO AZARD TYPE RES SUBSTANCE NOTES: Weigh ALLAMINE/FORMALDEHYDE AZARD SCREENING METHO AZARD SCREENING METHO | ght percentage may not vary as this HPD cov I GREENGUARD and GREENGUARD Gold. D: Pharos Chemical and Materials Library GS: LT-UNK AGENCY AND LIST TITLES AOEC - Asthmagens t percentage may vary as the exact ratio is pr ERESIN D: Pharos Chemical and Materials Library | HAZARD SCREENIN RC: None NANO: N WARNINGS Asthmagen roprietary. | Dard grade. The composition of this materia ID: 9004- G DATE: 2022-03-25 15:57:57 To SUBSTANCE ROLE: Structure compo (Rs) - sensitizer-induced ID: Undiscle G DATE: 2022-03-25 15:57:56 |
| Assent in their product. HER MATERIAL NOTES: Wei infidential. Supplier is certified APER IAZARD SCREENING METHO 6: 20.0000 - 80.0000 HAZARD TYPE RES SUBSTANCE NOTES: Weigh IAZARD SCREENING METHO 6: 20.0000 - 80.0000 HAZARD TYPE | ght percentage may not vary as this HPD cov I GREENGUARD and GREENGUARD Gold. D: Pharos Chemical and Materials Library GS: LT-UNK AGENCY AND LIST TITLES AOEC - Asthmagens t percentage may vary as the exact ratio is pr ERESIN D: Pharos Chemical and Materials Library GS: LT-UNK | HAZARD SCREENIN RC: None NANO: N WARNINGS Asthmagen roprietary. HAZARD SCREENIN RC: None NAN WARNINGS | Dard grade. The composition of this materia ID: 9004- G DATE: 2022-03-25 15:57:57 To SUBSTANCE ROLE: Structure compo (Rs) - sensitizer-induced ID: Undiscle G DATE: 2022-03-25 15:57:56 |
| esent in their product. HER MATERIAL NOTES: Wei Infidential. Supplier is certified PAPER HAZARD SCREENING METHO 6: 20.0000 - 80.0000 HAZARD TYPE RES SUBSTANCE NOTES: Weigh MELAMINE/FORMALDEHYDE HAZARD SCREENING METHO 6: 20.0000 - 80.0000 HAZARD TYPE None found | ght percentage may not vary as this HPD cov I GREENGUARD and GREENGUARD Gold. D: Pharos Chemical and Materials Library GS: LT-UNK AGENCY AND LIST TITLES AOEC - Asthmagens t percentage may vary as the exact ratio is pr ERESIN D: Pharos Chemical and Materials Library GS: LT-UNK | Arr only one particle by HAZARD SCREENIN RC: None NANO: N WARNINGS Asthmagen roprietary. HAZARD SCREENIN RC: None NAN WARNINGS | Dard grade. The composition of this materia ID: 9004- G DATE: 2022-03-25 15:57:57 Io SUBSTANCE ROLE: Structure compo (Rs) - sensitizer-induced ID: Undiscle G DATE: 2022-03-25 15:57:56 O: No SUBSTANCE ROLE: Binder |
| esent in their product. HER MATERIAL NOTES: Wei Infidential. Supplier is certified PAPER HAZARD SCREENING METHO 6: 20.0000 - 80.0000 HAZARD TYPE RES SUBSTANCE NOTES: Weigh MELAMINE/FORMALDEHYDE HAZARD SCREENING METHO 6: 20.0000 - 80.0000 HAZARD TYPE None found | ght percentage may not vary as this HPD cov I GREENGUARD and GREENGUARD Gold. D: Pharos Chemical and Materials Library GS: LT-UNK AGENCY AND LIST TITLES AOEC - Asthmagens t percentage may vary as the exact ratio is pr ERESIN D: Pharos Chemical and Materials Library GS: LT-UNK AGENCY AND LIST TITLES | Arr only one particle by HAZARD SCREENIN RC: None NANO: N WARNINGS Asthmagen roprietary. HAZARD SCREENIN RC: None NAN WARNINGS | Dard grade. The composition of this materia ID: 9004- G DATE: 2022-03-25 15:57:57 Io SUBSTANCE ROLE: Structure compo (Rs) - sensitizer-induced ID: Undiscle G DATE: 2022-03-25 15:57:56 O: No SUBSTANCE ROLE: Binder |

WARNINGS

HAZARD TYPE

AGENCY AND LIST TITLES

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes

MATERIAL TYPE: Paper or Cardboard

RESIDUALS AND IMPURITIES NOTES: Supplier A declared, based on their technical/scientific knowledge, that residuals and impurities were not present in their product.

OTHER MATERIAL NOTES: Weight percentage may not vary as this HPD covers only one particle board grade. The composition of this material is confidential.

| AZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SC | REENING DA | TE: 2022-03-25 15:57:52 | |
|---|--|-------------------------------------|------------|---|--|
| %: 35.6000 - 47.6000 | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE ROLE: Structure componer | |
| HAZARD TYPE | AGENCY AND LIST TITLES | WA | RNINGS | | |
| RES | AOEC - Asthmagens | Asthmagen (Rs) - sensitizer-induced | | | |
| | ercentage may vary as the exact ratio is pro | | | | |
| SUBSTANCE NOTES: Weight pe | | oprietary. | | ID: Undisclose TE: 2022-03-25 15:57:59 | |
| SUBSTANCE NOTES: Weight pe | ercentage may vary as the exact ratio is pro | oprietary. | | ID: Undisclose TE: 2022-03-25 15:57:59 | |
| SUBSTANCE NOTES: Weight pe JNDISCLOSED HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | oprietary. HAZARD SC RC: None | REENING DA | ID: Undisclose TE: 2022-03-25 15:57:59 | |

| METHYL ALCOHOL | | | | | ID: 67-56-1 |
|-------------------------------------|------------------------------|-----------|-------------|------------------------|--------------|
| HAZARD SCREENING METHOD: Pharos Che | emical and Materials Library | HAZARD SC | REENING DAT | E: 2022-03-25 15:58:40 | |
| %: Impurity/Residual | GS: BM-1 | RC: None | NANO: No | SUBSTANCE ROLE: Impur | ity/Residual |

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|---|--|
| END | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor |
| DEV | CA EPA - Prop 65 | Developmental toxicity |
| DEV | US NIH - Reproductive & Developmental Monographs | Clear Evidence of Adverse Effects - Developmental Toxicity |
| MUL | German FEA - Substances Hazardous to Waters | Class 2 - Hazard to Waters |
| REP | GHS - Japan | H360 - May damage fertility or the unborn child [Toxic to reproduction - Category 1B] |
| РНҮ | EU - GHS (H-Statements) Annex 6 Table 3-1 | H225 - Highly flammable liquid and vapour [Flammable liquids - Category 2] |
| МАМ | EU - GHS (H-Statements) Annex 6 Table 3-1 | H331 - Toxic if inhaled [Acute toxicity (inhalation) - Category 3] |
| МАМ | EU - GHS (H-Statements) Annex 6 Table 3-1 | H301 - Toxic if swallowed [Acute toxicity (oral) - Category 3] |
| МАМ | EU - GHS (H-Statements) Annex 6 Table 3-1 | H311 - Toxic in contact with skin [Acute toxicity (dermal) - Category 3] |
| МАМ | EU - GHS (H-Statements) Annex 6 Table 3-1 | H370 - Causes damage to organs [Specific target organ toxicity - single exposure - Category 1] |

SUBSTANCE NOTES: Weight percentage may vary as depends to the ratio of each substance used in the mixture for the product manufacturing.

| UNDISCLOSED | | | | ID: Undisc |
|--------------------------|---------------------------------------|------------|------------------|------------------------|
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCF | REENING DATE: | 2022-03-25 15:58:40 |
| %: 0.0000 - 38.0000 | GS: LT-P1 | RC: None | NANO: No | SUBSTANCE ROLE: Binder |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAR | NINGS | |
| RES | AOEC - Asthmagens | Asth | magen (Rs) - ser | nsitizer-induced |

 CATALYST
 %: 0.8800

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

RESIDUALS AND IMPURITIES NOTES: The supplier declared, based on the technical/scientific knowledge, that no residuals and impurities were present in their product.

OTHER MATERIAL NOTES: Weight percentage may not vary as this HPD covers only one particle board grade. Some substances fall below the reportable thershold, and are not reported in the content inventory.

| | WATER | | | | | ID: 7732-18-5 |
|---|---|---|-----------------|--------------------|--------------------------|-----------------|
| | HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCF | REENING DATE: | 2022-03-25 15:57:51 | |
| | %: 50.0000 - 60.0000 | GS: BM-4 | RC: None | NANO: No | SUBSTANCE ROLE | Diluent |
| | HAZARD TYPE | AGENCY AND LIST TITLES | WAR | NINGS | | |
| | None found | | | No warning | s found on HPD Priority | Hazard Lists |
| | SUBSTANCE NOTES: Weight p the threshold | ercentage may vary the exact ratio is propr | etary. Accorod | ling to the suppli | er, residual and impurit | y are below |
| | AMMONIUM NITRATE | | | | | ID: 6484-52-2 |
| | HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCF | REENING DATE: | 2022-03-25 15:57:50 | |
| | %: 50.0000 - 60.0000 | GS: LT-P1 | RC: None | NANO: No | SUBSTANCE ROLE: | Catalyst |
| | HAZARD TYPE | AGENCY AND LIST TITLES | WAR | NINGS | | |
| | END | TEDX - Potential Endocrine Disruptors | Poter | ntial Endocrine D | lisruptor | |
| | SUBSTANCE NOTES: Weight p the threshold. | ercentage may vary the exact ratio is propr | etary. Accorod | ling to the suppli | er, residual and impurit | y are below |
| | WATER | %: 0.5200 | | | | |
| | PRODUCT THRESHOLD: 1000 ppn | n RESIDUALS AND IMPURITIES C | ONSIDERED: | Yes | MATERIAL TYPE: Othe | er: Water |
| | RESIDUALS AND IMPURITIES NOT | TES: No data collected regarding this mater | ial. | | | |
| | OTHER MATERIAL NOTES: Weight | t percentage may not vary as this HPD cove | ers only one pa | rticle board grad | le. Standard water is us | ed (municipal). |
| | WATER | | | | | ID: 7732-18-5 |
| | HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCF | REENING DATE: | 2022-03-25 15:57:48 | |
| | %: 100.0000 | GS: BM-4 | RC: None | NANO: No | SUBSTANCE ROLE | Diluent |
| | HAZARD TYPE | AGENCY AND LIST TITLES | WAR | NINGS | | |
| | None found | | | No warning | s found on HPD Priority | Hazard Lists |
| | SUBSTANCE NOTES: Accorodi | ng to the supplier, residual and impurity are | below the thre | eshold. | | |
| | WAX | %: 0.3400 | | | | |
| | PRODUCT THRESHOLD: 1000 ppn | n RESIDUALS AND IMPURITIES CO | NSIDERED: Ye | es MAT | ERIAL TYPE: Polymeri | c Material |
| | | TES: Suppliers declared, based on technica ere performed on their product. According I (8012-95-1). | | - | | |
| | OTHER MATERIAL NOTES: Wax is Weight percentage may not vary as | s used as water repellant. Substance name i s this HPD covers only one particle board o | | because they ar | e proprietary. | |
| 1 | | e line in 2 covere entry ene particle beard g | | | | |
| | UNDISCLOSED | | | | IC |): Undisclosed |

| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZAR | D SC | REENING DATI | E: 2022-03-25 1 | 5:57:50 |
|--|---|-----------|-------------|----------------------------------|---------------------------------------|-----------------------------|
| %: 50.0000 - 60.0000 | GS: LT-1 | RC: No | ne | NANO: No | SUBSTANCE RO | DLE: Water resistance |
| HAZARD TYPE | AGENCY AND LIST TITLES | | WAF | RNINGS | | |
| CAN | EU - REACH Annex XVII CMRs | | | | ory 2 - Substance are Carcinogenic | s which should be to man |
| CAN | EU - Annex VI CMRs | | | cinogen Catego nimal evidence | - | d Carcinogen based |
| MUL | ChemSec - SIN List | | CM | R - Carcinogen, | Mutagen &/or Re | eproductive Toxicant |
| MUL | German FEA - Substances Hazardous Waters | to | Clas | s 3 - Severe Ha | azard to Waters | |
| CAN | GHS - Australia | | H35 or 1 | - | cancer [Carcinog | enicity - Category 1A |
| CAN | EU - GHS (H-Statements) Annex 6 Tab | le 3-1 | H35 or 1 | - | cancer [Carcinog | enicity - Category 1A |
| | ercentage may vary as the exact ratio is produced and impurity are below the threshold. | oprietary | | | | |
| UNDISCLOSED | | | | | | ID: Undisclosed |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZAR | D SC | REENING DATI | E: 2022-03-25 1 | 5:57:51 |
| %: 40.0000 - 50.0000 | GS: BM-4 | RC: No | ne | NANO: No | SUBSTANC | E ROLE: Diluent |
| HAZARD TYPE | AGENCY AND LIST TITLES | | WAF | RNINGS | | |
| None found | | | | No warni | ngs found on HP | D Priority Hazard Lists |
| the threshold. | ercentage may vary as the exact ratio is pro | oprietary | Acc | ording to the su | ıpplier, residual a | |
| UNDISCLOSED | | | | | | ID: Undisclosed |
| | Pharos Chemical and Materials Library | | | | | |
| %: 0.5000 - 3.0000 | GS: NoGS | RC: No | ne | NANO: No | SUBSTANCE | ROLE: Surfactant |
| HAZARD TYPE | AGENCY AND LIST TITLES | | WAF | RNINGS | | |
| None found | | | | No warni | ngs found on HP | D Priority Hazard Lists |
| SUBSTANCE NOTES: Weight p the threshold. | ercentage may vary as the exact ratio is pro | oprietary | . Acc | ording to the su | ipplier, residual a | nd impurity are below |
| UNDISCLOSED | | | | | | ID: Undisclosed |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZAR | D SC | REENING DATI | E: 2022-03-25 1 | 5:58:25 |
| %: 0.5000 - 3.0000 | GS: LT-P1 | RC: No | ne | NANO: No | SUBSTANCE | E ROLE: Surfactant |
| | | | | | | |

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|--|--|--|
| END | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor |
| SKI | МАК | Sensitizing Substance Sh - Danger of skin sensitization |
| RES | AOEC - Asthmagens | Asthmagen (Rs) - sensitizer-induced |
| SKI | EU - GHS (H-Statements) Annex 6 Table 3-1 | H314 - Causes severe skin burns and eye damage [Skin corrosion/irritation - Category 1A or 1B or 1C] |
| SUBSTANCE NOTES: Weight pe from supplier since no tests are | | ry. Information about residuals and impurities not available |
| LACQUER (FINISH HIGH GLOSS) | %: 0.3000 | |
| PRODUCT THRESHOLD: 1000 ppm | RESIDUALS AND IMPURITIES CONSIDE | RED: Yes MATERIAL TYPE: Polymeric Material |
| BESIDUALS AND IMPUBITIES NOT | ES: According to the supplier and based on their | technical/scientific knowledge as well as information from their |

RESIDUALS AND IMPURITIES NOTES: According to the supplier and based on their technical/scientific knowledge as well as information from their supplier, no chemical residual and impurities are present in the material. however, they no test have been done.

OTHER MATERIAL NOTES: Substances names are UnDisclosed because they are proprietary. Some substances fall below the reportable thershold and are not reported in the content inventory.

| UNDISCLOSED | | | | ID: Undisclosed |
|--------------------------|---------------------------------------|------------|---------------|--------------------------------------|
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCF | REENING DATE: | 2022-03-25 15:57:52 |
| %: 25.0000 - 35.0000 | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE ROLE: Monomer |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAR | NINGS | |
| None found | | | No warning | s found on HPD Priority Hazard Lists |

SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary. Weight percentage may vary as the exact ratio is proprietary.

| | | | ID: Undisclos | |
|---------------------------------------|--|---|--|--|
| Pharos Chemical and Materials Library | HAZARI | O SCREENING DATE: | 2022-03-25 15:57:55 | |
| GS: LT-1 | RC: Nor | NANO: No | SUBSTANCE ROLE: Pigment | |
| AGENCY AND LIST TITLES | | WARNINGS | | |
| US CDC - Occupational Carcinogens | | Occupational Carcinogen | | |
| CA EPA - Prop 65 | | Carcinogen - specific to chemical form or exposu | | |
| IARC | | Group 2B - Possibly carcinogenic to humans - in from occupational sources | | |
| МАК | | • · | A - Evidence of carcinogenic effects establish MAK/BAT value | |
| TEDX - Potential Endocrine Disruptors | | Potential Endocrine | Disruptor | |
| МАК | | Carcinogen Group 4 risk under MAK/BAT | - Non-genotoxic carcinogen with lov levels | |
| EU - GHS (H-Statements) Annex 6 Tabl | | • | causing cancer [Carcinogenicity - | |
| | AGENCY AND LIST TITLES US CDC - Occupational Carcinogens CA EPA - Prop 65 IARC MAK TEDX - Potential Endocrine Disruptors MAK | GS: LT-1 RC: Nor AGENCY AND LIST TITLES US CDC - Occupational Carcinogens CA EPA - Prop 65 IARC MAK TEDX - Potential Endocrine Disruptors MAK EU - GHS (H-Statements) Annex 6 Table 3-1 | GS: LT-1 RC: None NANO: No AGENCY AND LIST TITLES WARNINGS US CDC - Occupational Carcinogens Occupational Carcinogen - specified CA EPA - Prop 65 Carcinogen - specified IARC Group 2B - Possibly from occupational so MAK Carcinogen Group 3A but not sufficient to a but not suffi | |

SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary. Weight percentage may vary as the exact ratio is proprietary. UNDISCLOSED **ID: Undisclosed** HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2022-03-25 15:57:56 NANO: No %: 20.0000 - 25.0000 GS: BM-1 RC: None SUBSTANCE ROLE: Binder HAZARD TYPE AGENCY AND LIST TITLES WARNINGS No warnings found on HPD Priority Hazard Lists None found SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary. Weight percentage may vary as the exact ratio is proprietary. UNDISCLOSED ID: Undisclosed HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2022-03-25 15:58:11 %: 5.0000 GS: NoGS RC: None NANO: No SUBSTANCE ROLE: Binder HAZARD TYPE AGENCY AND LIST TITLES WARNINGS No warnings found on HPD Priority Hazard Lists None found SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary. Weight percentage may not vary as this is an average percentage. The exact ratio is proprietary. UNDISCLOSED ID: Undisclosed HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2022-03-25 15:58:11 %: 5.0000 GS: LT-P1 RC: None NANO: No SUBSTANCE ROLE: Pigment WARNINGS HAZARD TYPF AGENCY AND LIST TITLES None found No warnings found on HPD Priority Hazard Lists SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary. Weight percentage may not vary as this is an average percentage. The exact ratio is proprietary. UNDISCLOSED **ID: Undisclosed** HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2022-03-25 15:58:12 %: 4.0000 - 8.0000 GS: LT-UNK RC: None NANO: No SUBSTANCE ROLE: Binder HAZARD TYPE AGENCY AND LIST TITLES WARNINGS None found No warnings found on HPD Priority Hazard Lists SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary. Weight percentage may vary as the exact ratio is proprietary. UNDISCLOSED ID: Undisclosed HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2022-03-25 15:58:14 %: 2.0000 GS: LT-UNK RC: None NANO: No SUBSTANCE ROLE: Pigment

| HAZARD TY | /Ρ | Е |
|-----------|----|---|
|-----------|----|---|

AGENCY AND LIST TITLES

WARNINGS

No warnings found on HPD Priority Hazard Lists

None found

| AZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCI | REENING DATE: | 2022-03-25 15:58:14 |
|---|--|---|--|---|
| 6: 2.0000 | GS: LT-P1 | RC: None | NANO: No | SUBSTANCE ROLE: Binder |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAR | NINGS | |
| RES | AOEC - Asthmagens | Asth | magen (Rs) - sen | sitizer-induced |
| SUBSTANCE NOTES: Substanc percentage. The exact ratio is p | e name is UnDisclosed because it is propri roprietary. | ietary. Weight ı | percentage may | not vary as this is an average |
| INDISCLOSED | | | | ID: Undisclos |
| IAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCI | REENING DATE: | 2022-03-25 15:58:16 |
| 6: 1.5000 | GS: NoGS | RC: None | NANO: No | SUBSTANCE ROLE: Desiccant |
| | | | | |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAR | NINGS | |
| percentage. The exact ratio is p | e name is UnDisclosed because it is propri | | No warning | not vary as this is an average |
| None found SUBSTANCE NOTES: Substanc percentage. The exact ratio is p | e name is UnDisclosed because it is propri | ietary. Weight ı | No warning | ID: Undisclos |
| None found SUBSTANCE NOTES: Substanc percentage. The exact ratio is p | e name is UnDisclosed because it is propri roprietary. | ietary. Weight ı | No warning | not vary as this is an average ID: Undisclos |
| None found SUBSTANCE NOTES: Substanc percentage. The exact ratio is p INDISCLOSED IAZARD SCREENING METHOD: | e name is UnDisclosed because it is propri roprietary. Pharos Chemical and Materials Library | ietary. Weight p HAZARD SCI RC: None | No warning percentage may REENING DATE: | not vary as this is an average ID: Undisclos 2022-03-25 15:58:22 |
| None found SUBSTANCE NOTES: Substanc percentage. The exact ratio is p INDISCLOSED IAZARD SCREENING METHOD: 6: 1.0000 | e name is UnDisclosed because it is propri roprietary. Pharos Chemical and Materials Library GS: LT-UNK | ietary. Weight p HAZARD SCI RC: None | No warning percentage may REENING DATE: NANO: No RNINGS | not vary as this is an average ID: Undisclos 2022-03-25 15:58:22 SUBSTANCE ROLE: Binder |
| None found SUBSTANCE NOTES: Substanc percentage. The exact ratio is p INDISCLOSED IAZARD SCREENING METHOD: 6: 1.0000 HAZARD TYPE None found | Pharos Chemical and Materials Library GS: LT-UNK AGENCY AND LIST TITLES | ietary. Weight HAZARD SCI RC: None WAR | No warning percentage may REENING DATE: NANO: No RNINGS No warning | ID: Undisclos 2022-03-25 15:58:22 SUBSTANCE ROLE: Binder |
| None found SUBSTANCE NOTES: Substanc percentage. The exact ratio is p INDISCLOSED IAZARD SCREENING METHOD: 6: 1.0000 HAZARD TYPE None found SUBSTANCE NOTES: Substanc | Pharos Chemical and Materials Library GS: LT-UNK AGENCY AND LIST TITLES | ietary. Weight HAZARD SCI RC: None WAR | No warning percentage may REENING DATE: NANO: No RNINGS No warning | ID: Undisclos 2022-03-25 15:58:22 SUBSTANCE ROLE: Binder |
| None found SUBSTANCE NOTES: Substance percentage. The exact ratio is p INDISCLOSED AZARD SCREENING METHOD: 6: 1.0000 HAZARD TYPE None found SUBSTANCE NOTES: Substance percentage. The exact ratio is p | Pharos Chemical and Materials Library GS: LT-UNK AGENCY AND LIST TITLES | ietary. Weight (HAZARD SCI RC: None WAR | No warning percentage may REENING DATE: NANO: No RNINGS No warning percentage may | ID: Undisclos 2022-03-25 15:58:22 SUBSTANCE ROLE: Binder Is found on HPD Priority Hazard List not vary as this is an average |
| None found SUBSTANCE NOTES: Substance percentage. The exact ratio is p INDISCLOSED IAZARD SCREENING METHOD: 6: 1.0000 HAZARD TYPE None found SUBSTANCE NOTES: Substance percentage. The exact ratio is p | Pharos Chemical and Materials Library GS: LT-UNK AGENCY AND LIST TITLES | ietary. Weight (HAZARD SCI RC: None WAR | No warning percentage may REENING DATE: NANO: No RNINGS No warning percentage may | ID: Undisclos 2022-03-25 15:58:22 SUBSTANCE ROLE: Binder Is found on HPD Priority Hazard List not vary as this is an average ID: Undisclos |

| HAZARD TYPE | AGENCY AND LIST TITLES | ١ | WARN | IINGS | | |
|--|--|-------------|----------|---------------------------------------|-----------------|--------------------------|
| CAN | US CDC - Occupational Carcinogens | (| Occup | pational Carcino | ogen | |
| CAN | МАК | | | nogen Group 3E ot sufficient for o | | f carcinogenic effects |
| CAN | CA EPA - Prop 65 | (| Carcin | nogen - specific | to chemical f | orm or exposure route |
| CAN | IARC | | - | 2B - Possibly o occupational so | - | o humans - inhaled |
| SUBSTANCE NOTES: Substance percentage. The exact ratio is pr | e name is UnDisclosed because it is propri roprietary. | etary. Wei | ght pe | ercentage may | not vary as thi | s is an average |
| UNDISCLOSED | | | | | | ID: Undisclosed |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD | SCR | EENING DATE: | 2022-03-25 | 15:58:32 |
| %: 0.2000 | GS: LT-UNK | RC: Non | е | NANO: No | SUBSTAN | ICE ROLE: Filler |
| HAZARD TYPE | AGENCY AND LIST TITLES | ١ | WARN | IINGS | | |
| None found | | | | No warning | s found on HF | PD Priority Hazard Lists |
| percentage. The exact ratio is pr UNDISCLOSED HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD | SCR | EENING DATE: | 2022-03-25 | ID: Undisclosed |
| %: 0.1000 | GS: BM-1 | RC: Non | е | NANO: No | SUBSTAN | CE ROLE: Pigment |
| HAZARD TYPE | AGENCY AND LIST TITLES | ١ | WARN | IINGS | | |
| CAN | МАК | | | nogen Group 3E ot sufficient for o | | carcinogenic effects |
| SUBSTANCE NOTES: Substance percentage. The exact ratio is pr | e name is UnDisclosed because it is propri roprietary. | etary. Wei | ght pe | ercentage may | not vary as thi | s is an average |
| LACQUER (FINISH MATT) | %: 0.2300 | | | | | |
| PRODUCT THRESHOLD: 1000 ppm | RESIDUALS AND IMPURITIES CO | NSIDERE | D: Yes | s MAT | TERIAL TYPE: | Polymeric Material |
| | ES: According to the supplier and based of impurities are present in the material. how | | | | - | as information from thei |
| OTHER MATERIAL NOTES: Substar and are not reported in the content | nces names are UnDisclosed because they inventory. | / are propr | rietary | v. Some substar | nces fall below | the reportable thershold |
| UNDISCLOSED | | | | | | ID: Undisclosed |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD | SCR | EENING DATE: | 2022-03-25 | 15:57:53 |
| %: 25.0000 - 35.0000 | GS: LT-1 | RC: Non | <u>م</u> | NANO: No | SUBSTAN | CE ROLE: Pigment |

| HAZARD TYPE | AGENCY AND LIST TITLES | | WAR | NINGS | | |
|----------------------------|---|-----------|--------|--|-----------------|-----------------------------------|
| CAN | US CDC - Occupational Carcinogens | | Осси | upational Carcino | ogen | |
| CAN | CA EPA - Prop 65 | | Carc | inogen - specific | to chemical fo | rm or exposure route |
| CAN | IARC | | | p 2B - Possibly o | - | humans - inhaled |
| CAN | МАК | | | inogen Group 3A not sufficient to e | | carcinogenic effects BAT value |
| END | TEDX - Potential Endocrine Disruptors | i | Pote | ntial Endocrine D | Disruptor | |
| CAN | МАК | | | inogen Group 4 - under MAK/BAT I | - | c carcinogen with low |
| CAN | EU - GHS (H-Statements) Annex 6 Tab | le 3-1 | | - Suspected of gory 2] | causing cancer | [Carcinogenicity - |
| SUBSTANCE NOTES: Substance | e name is UnDisclosed because it is propr | ietary. W | eight | percentage may | vary as the exa | ct ratio is proprietary. |
| UNDISCLOSED | | | | | | ID: Undisclosed |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZAF | RD SCI | REENING DATE: | 2022-03-25 1 | 5:57:55 |
| %: 25.0000 - 35.0000 | GS: LT-UNK | RC: No | one | NANO: No | SUBSTANCE | ROLE: Monomer |
| HAZARD TYPE | AGENCY AND LIST TITLES | | WAR | NINGS | | |
| None found | | | | No warning | s found on HPI | D Priority Hazard Lists |
| SUBSTANCE NOTES: Substance | e name is UnDisclosed because it is propr | ietary. W | eight | percentage may | vary as the exa | ct ratio is proprietary. |

| AZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCF | REENING DATE: | 2022-03-25 15:58:08 |
|----------------------------|---------------------------------------|------------|---------------|-------------------------------------|
| 6: 5.0000 - 15.0000 | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE ROLE: Binder |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAR | NINGS | |
| None found | | | No warning | s found on HPD Priority Hazard List |

| UNDISCLOSED | | | | | ID: Undisclosed |
|----------------------------|---------------------------------------|-------------|-------------|---------------------|-----------------|
| HAZARD SCREENING METHOD: P | Pharos Chemical and Materials Library | HAZARD SCRE | ENING DATE: | 2022-03-25 15:58:08 | |
| %: 5.0000 | GS: LT-P1 | RC: None | NANO: No | SUBSTANCE ROL | E: Binder |

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|--|--|
| SKI | МАК | 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] |
| SKI | EU - GHS (H-Statements) Annex 6 Table 3-1 | H317 - May cause an allergic skin reaction [Skin sensitization - Category 1] |
| EYE | EU - GHS (H-Statements) Annex 6 Table 3-1 | H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A] |

| UNDISCLOSED | | | | ID: | Undisclosed |
|---|--|----------------|----------------|------------------------------|--------------|
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SC | REENING DATE: | 2022-03-25 15:58:12 | |
| %: 3.0000 | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE ROLE: Pho | toinitiator |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAF | RNINGS | | |
| None found | | | No warning | gs found on HPD Priority H | lazard Lists |
| SUBSTANCE NOTES: Substanc percentage. The exact ratio is p | e name is UnDisclosed because it is propr roprietary. | ietary. Weight | percentage may | not vary as this is an aver | age |
| UNDISCLOSED | | | | ID: | Undisclosed |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SC | REENING DATE: | 2022-03-25 15:58:13 | |
| %: 2.0000 | GS: NoGS | RC: None | NANO: No | SUBSTANCE ROLE: De | esiccant |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAF | RNINGS | | |
| None found | | | No warning | gs found on HPD Priority H | lazard Lists |
| SUBSTANCE NOTES: Substanc percentage. The exact ratio is p | e name is UnDisclosed because it is propr roprietary. | ietary. Weight | percentage may | not vary as this is an aver | age |
| UNDISCLOSED | | | | ID: | Undisclosed |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SC | REENING DATE: | 2022-03-25 15:58:19 | |
| %: 1.0000 - 10.0000 | GS: NoGS | RC: None | NANO: No | SUBSTANCE ROLE: E | Binder |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAF | RNINGS | | |
| None found | | | No warning | gs found on HPD Priority H | lazard Lists |
| SUBSTANCE NOTES: Substance | e name is UnDisclosed because it is propr | ietary. Weight | percentage may | vary as the exact ratio is p | proprietary. |
| UNDISCLOSED | | | | ID: | Undisclosed |

| Pharos Chemical and Materials Library | HAZARD SCH | EENING DATE: | 2022-03-25 15:58:21 |
|---------------------------------------|--|--|--|
| GS: BM-1 | RC: None | NANO: No | SUBSTANCE ROLE: Filler |
| AGENCY AND LIST TITLES | WAR | NINGS | |
| GHS - Japan | H350 | - May cause can | cer [Carcinogenicity - Category 1A] |
| GHS - Australia | | , | ncer by inhalation [Carcinogenicity - |
| | GS: BM-1 AGENCY AND LIST TITLES GHS - Japan | GS: BM-1 RC: None AGENCY AND LIST TITLES WAR GHS - Japan H350 GHS - Australia H350 | GS: BM-1 RC: None NANO: No AGENCY AND LIST TITLES WARNINGS GHS - Japan H350 - May cause car |

| UNDISCLOSED | | | | | ID: Undisclos |
|--------------------------|---------------------------------------|---------|-------|--------------------------------------|---|
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD |) SCI | REENING DATE | 2022-03-25 15:58:21 |
| %: 1.0000 | GS: LT-UNK | RC: Non | e | NANO: No | SUBSTANCE ROLE: Photoinitiator |
| HAZARD TYPE | AGENCY AND LIST TITLES | | WAR | NINGS | |
| SKI | EU - GHS (H-Statements) Annex 6 Tab | | | ' - May cause a itization - Categ | n allergic skin reaction [Skin Jory 1] |

SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary. Weight percentage may not vary as this is an average percentage. The exact ratio is proprietary.

| UNDISCLOSED | | | | ID: Undisclosed |
|--------------------------|---------------------------------------|-----------|------------------|------------------------|
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SC | REENING DATE: | 2022-03-25 15:58:19 |
| %: 1.0000 | GS: LT-P1 | RC: None | NANO: No | SUBSTANCE ROLE: Binder |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAF | RNINGS | |
| RES | AOEC - Asthmagens | Asth | magen (Rs) - ser | nsitizer-induced |

| HAZARD SCREENING MET | THOD: Pharos Chemical and Materials Library | HAZARD SCI | REENING DATE: | 2022-03-25 15:58:26 |
|---|---|------------------|----------------|--------------------------------------|
| %: 0.5000 | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE ROLE: Binder |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAR | NINGS | |
| | | | | |
| None found | | | No warning | s found on HPD Priority Hazard Lists |
| | bstance name is UnDisclosed because it is propri tio is proprietary. | ietary. Weight I | | - |
| SUBSTANCE NOTES: Sul percentage. The exact rat | | ietary. Weight ı | | - |
| SUBSTANCE NOTES: Sul percentage. The exact rat | | | percentage may | not vary as this is an average |

| HAZARD TYP | PE | |
|------------|----|--|
|------------|----|--|

AGENCY AND LIST TITLES

WARNINGS

No warnings found on HPD Priority Hazard Lists

None found

SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary. Weight percentage may not vary as this is an average percentage. The exact ratio is proprietary.

| UNDISCLOSED | | | | ID: Undisclosed |
|--------------------------|---------------------------------------|-----------|---------------|--------------------------------------|
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SC | REENING DATE: | 2022-03-25 15:58:27 |
| %: 0.5000 | GS: LT-P1 | RC: None | NANO: No | SUBSTANCE ROLE: Desiccant |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAF | NINGS | |
| None found | | | No warning | s found on HPD Priority Hazard Lists |
| | | | No warning | is found on HFD Fhonky Hazard Lisk |

SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary. Weight percentage may not vary as this is an average percentage. The exact ratio is proprietary.

| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCI | REENING DATE: | 2022-03-25 15:58:29 |
|--|--|------------------|----------------|------------------------------------|
| %: 0.3000 | GS: NoGS | RC: None | NANO: No | SUBSTANCE ROLE: Desiccant |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAR | NINGS | |
| None found | | | No warning | s found on HPD Priority Hazard Lis |
| SUBSTANCE NOTES: Substance percentage. The exact ratio is p | e name is UnDisclosed because it is propr roprietary. | ietary. Weight ı | percentage may | not vary as this is an average |
| JNDISCLOSED | | | | ID: Undisclos |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCI | REENING DATE: | 2022-03-25 15:58:32 |
| %: 0.2000 | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE ROLE: Desiccant |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAR | NINGS | |
| None found | | | No warning | s found on HPD Priority Hazard Lis |
| SUBSTANCE NOTES: Substance percentage. The exact ratio is p | e name is UnDisclosed because it is propr roprietary. | ietary. Weight ı | percentage may | not vary as this is an average |
| INDISCLOSED | | | | ID: Undisclos |
| AZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCI | REENING DATE: | 2022-03-25 15:58:37 |
| | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE ROLE: Filler |
| %: 0.1000 | | | | |
| 6: 0.1000 HAZARD TYPE | AGENCY AND LIST TITLES | WAR | NINGS | |

| POLYURETHANE RESIN | %: 0.2000 | | | | |
|--|--|------------------|----------------|---|--|
| PRODUCT THRESHOLD: 1000 ppm | RESIDUALS AND IMPURITIES CO | ONSIDERED: ` | Yes M | IATERIAL TYPE: Polymeric Material | |
| | ES: According to the supplier and based of impurities are present in the material. how | | | - | |
| OTHER MATERIAL NOTES: The co | mposition of this product is confidential be | ecause it is pro | oprietary. | | |
| UNDISCLOSED | | | | ID: Undisclosed | |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SC | REENING DATE: | 2022-03-25 15:57:49 | |
| %: 88.0000 | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE ROLE: Polymer species | |
| HAZARD TYPE | AGENCY AND LIST TITLES | WA | ARNINGS | | |
| None found | | | No warn | ings found on HPD Priority Hazard Lists | |
| SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary. Weight percentage may not vary as this is an average percentage. The exact ratio is proprietary. | | | | | |
| UNDISCLOSED | | | | ID: Undisclosed | |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SC | REENING DATE: | 2022-03-25 15:57:59 | |
| %: 10.0000 | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE ROLE: Polymer species | |
| HAZARD TYPE | AGENCY AND LIST TITLES | WA | ARNINGS | | |
| None found | | | No warn | ings found on HPD Priority Hazard Lists | |
| SUBSTANCE NOTES: Substance percentage. The exact ratio is pr UNDISCLOSED | e name is UnDisclosed because it is propri roprietary. | ietary. Weight | percentage may | not vary as this is an average ID: Undisclosed | |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SC | REENING DATE: | 2021-09-03 14:16:43 | |
| %: 0.5000 | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE ROLE: Desiccant | |
| HAZARD TYPE | AGENCY AND LIST TITLES | WA | ARNINGS | | |
| None found | | | No warn | ings found on HPD Priority Hazard Lists | |
| SUBSTANCE NOTES: Substance percentage. The exact ratio is pr | e name is UnDisclosed because it is propri roprietary. | ietary. Weight | percentage may | not vary as this is an average | |
| UNDISCLOSED | | | | ID: Undisclosed | |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SC | REENING DATE: | 2022-03-25 15:58:27 | |
| %: 0.5000 | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE ROLE: Desiccant | |
| | | | | | |

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|---|---|---|
| RES | AOEC - Asthmagens | Asthmagen (G) - generally accepted |
| RES | МАК | Sensitizing Substance Sah - Danger of airway & skin sensitization |
| SKI | EU - GHS (H-Statements) Annex 6 Table 3-1 | H315 - Causes skin irritation [Skin corrosion/irritation - Category 2] |
| SKI | EU - GHS (H-Statements) Annex 6 Table 3-1 | H317 - May cause an allergic skin reaction [Skin sensitization - Category 1] |
| EYE | EU - GHS (H-Statements) Annex 6 Table 3-1 | H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A] |
| RES | EU - GHS (H-Statements) Annex 6 Table 3-1 | H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled [Respiratory sensitization - Category 1] |
| МАМ | EU - GHS (H-Statements) Annex 6 Table 3-1 | H331 - Toxic if inhaled [Acute toxicity (inhalation) - Category 3] |
| SUBSTANCE NOTES: Substanc percentage. The exact ratio is p | | leight percentage may not vary as this is an average |
| UNDISCLOSED | | ID: Undisclosed |

| | | 15. Ondisolosida |
|--------------------------|---|---|
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCREENING DATE: 2022-03-25 15:58:31 |
| %: 0.2500 | GS: LT-P1 | RC: None NANO: No SUBSTANCE ROLE: Antimicrobial Pesticide |
| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
| MUL | German FEA - Substances Hazardous Waters | s to Class 2 - Hazard to Waters |

| UNDISCLOSED | | | | | ID: Undisclosed |
|---------------------------|---|------------------|---------------|-------------------------|------------------------------------|
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCR | EENING DATE: | 2022-03-25 15:58:35 | |
| %: 0.1500 - 0.2500 | GS: NoGS | RC: None | NANO: No | SUBSTANCE ROL | E: Stabilizer |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAF | RNINGS | | |
| None found | | | No warni | ings found on HPD Pric | ority Hazard Lists |
| SUBSTANCE NOTES: Substanc | ce name is UnDisclosed because it is propri | etary. Weight po | ercentage may | vary as the exact ratio | is proprietary. ID: Undisclosed |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCR | EENING DATE: | 2022-03-25 15:58:35 | |
| %: 0.1500 - 0.2500 | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE ROL | E: Stabilizer |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAF | RNINGS | | |
| None found | | | No warni | ings found on HPD Pric | ority Hazard Lists |
| SUBSTANCE NOTES: Substanc | | | | | |

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| UNDISCLOSED | | | | ID: Undis |
|--|--|-------------------|-----------------|--------------------------------------|
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCRE | EENING DATE: | 2022-03-25 15:58:36 |
| %: 0.1300 | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE ROLE: Stabilize |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAR | NINGS | |
| None found | | | No warnii | ngs found on HPD Priority Hazard |
| SUBSTANCE NOTES: Substance percentage. The exact ratio is p | ce name is UnDisclosed because it is propri proprietary. | ietary. Weight pe | ercentage may r | not vary as this is an average |
| ACQUER (TOP LAYER #1) | %: 0.2000 | | | |
| RODUCT THRESHOLD: 1000 ppr | n RESIDUALS AND IMPURITIES CO | ONSIDERED: Ye | s M/ | ATERIAL TYPE: Polymeric Materia |
| | TES: According to the supplier and based of d impurities are present in the material. how | | | - |
| HER MATERIAL NOTES: Substand | ances names is UnDisclosed because they a tinventory. | are proprietary. | Some substanc | es fall below the reportable thers |
| INDISCLOSED | | | | ID: Undis |
| AZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCR | EENING DATE: | 2022-03-25 15:58:02 |
| %: 10.0000 - 20.0000 | GS: BM-1 | RC: None | NANO: No | SUBSTANCE ROLE: Binder |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAR | NINGS | |
| None found | | | No warnii | ngs found on HPD Priority Hazard |
| JNDISCLOSED | Pharos Chemical and Materials Library | HAZARD SCR | | ID: Undis |
| %: 10.0000 - 20.0000 | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE ROLE: Monome |
| HAZARD TYPE | AGENCY AND LIST TITLES | | NINGS | |
| None found | AGENCT AND LIST TITLES | WAN | | ngs found on HPD Priority Hazard |
| | | | | |
| SUBSTANCE NOTES: Substance | e name is UnDisclosed because it is propri | ietary. Weight pe | ercentage may | vary as the exact ratio is proprieta |
| JNDISCLOSED | | | | ID: Undis |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCR | EENING DATE: | 2022-03-25 15:58:03 |
| %: 10.0000 - 20.0000 | GS: LT-1 | RC: None | NANO: No | SUBSTANCE ROLE: Pigment |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|---|--|
| CAN | US CDC - Occupational Carcinogens | Occupational Carcinogen |
| CAN | CA EPA - Prop 65 | Carcinogen - specific to chemical form or exposure route |
| CAN | IARC | Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources |
| CAN | МАК | Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value |
| END | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor |
| CAN | МАК | Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels |
| CAN | EU - GHS (H-Statements) Annex 6 Table 3-1 | H351 - Suspected of causing cancer [Carcinogenicity - Category 2] |

SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary. Weight percentage may vary as the exact ratio is proprietary.

| UNDISCLOSED | | | | ID: Undisclosed |
|--------------------------|---------------------------------------|------------|--------------|--|
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCR | EENING DATE: | 2022-03-25 15:58:03 |
| %: 10.0000 - 20.0000 | GS: BM-3dg | RC: None | NANO: No | SUBSTANCE ROLE: Filler |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAF | NINGS | |
| None found | | | No warni | ngs found on HPD Priority Hazard Lists |

SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary. Weight percentage may vary as the exact ratio is proprietary.

| UNDISCLOSED | | | | | ID: Undisclose |
|--------------------------|---|---------|------------------|---|---|
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZAR | D SCRE | ENING DATE: | 2022-03-25 15:58:09 |
| %: 5.0000 - 10.0000 | GS: LT-P1 | RC: No | ne | NANO: No | SUBSTANCE ROLE: Binder |
| HAZARD TYPE | AGENCY AND LIST TITLES | | WARN | IINGS | |
| SKI | МАК | | Sensit | izing Substand | ce Sh - Danger of skin sensitization |
| MUL | German FEA - Substances Hazardous Waters | to | Class | 2 - Hazard to V | Waters |
| SKI | EU - GHS (H-Statements) Annex 6 Tat | ole 3-1 | H315 - Catego | | irritation [Skin corrosion/irritation - |
| SKI | EU - GHS (H-Statements) Annex 6 Tat | ble 3-1 | | May cause and a many cause | n allergic skin reaction [Skin gory 1] |
| EYE | EU - GHS (H-Statements) Annex 6 Tat | ole 3-1 | | | us eye irritation [Serious eye n - Category 2A] |
| AQU | EU - GHS (H-Statements) Annex 6 Tat | ble 3-1 | | dous to the ad | atic life with long lasting effects quatic environment (chronic) - |

SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary. Weight percentage may vary as the exact ratio is proprietary.

| UNDISCLOSED | | | | | ID: Undisclosed |
|--|---|----------------|------------------|---|-------------------|
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SC | REENING DATE: | 2022-03-25 15:58:11 | |
| %: 5.0000 - 10.0000 | GS: LT-P1 | RC: None | NANO: No | SUBSTANCE ROLE | : Monomer |
| HAZARD TYPE | AGENCY AND LIST TITLES | WA | ARNINGS | | |
| None found | | | No warnii | ngs found on HPD Prio | rity Hazard Lists |
| SUBSTANCE NOTES: Substance percentage. The exact ratio is pr | e name is UnDisclosed because it is propri roprietary. | ietary. Weight | percentage may r | not vary as this is an av | rerage |
| UNDISCLOSED | | | | | ID: Undisclosed |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SC | REENING DATE: | 2022-03-25 15:58:15 | |
| %: 2.0000 | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE ROLE: | Photoinitiator |
| HAZARD TYPE | AGENCY AND LIST TITLES | WA | ARNINGS | | |
| None found | | | No warnii | ngs found on HPD Prio | rity Hazard Lists |
| SUBSTANCE NOTES: Substance percentage. The exact ratio is pr | e name is UnDisclosed because it is propri roprietary. | ietary. Weight | percentage may r | not vary as this is an av | erage |
| UNDISCLOSED | | | | | ID: Undisclosed |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SC | REENING DATE: | 2021-09-03 17:05:17 | |
| %: 1.0000 | GS: LT-P1 | RC: None | NANO: No | SUBSTANCE ROLE | Desiccant |
| HAZARD TYPE | AGENCY AND LIST TITLES | WA | ARNINGS | | |
| SKI | EU - GHS (H-Statements) | | | re skin burns and eye c Category 1A or 1B or 1 | |
| SUBSTANCE NOTES: Substance percentage. The exact ratio is pr | e name is UnDisclosed because it is propri roprietary. | ietary. Weight | percentage may r | not vary as this is an av | erage |
| UNDISCLOSED | | | | | ID: Undisclosed |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SC | REENING DATE: | 2021-09-03 17:07:43 | |
| %: 1.0000 | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE ROL | E: Filler |
| HAZARD TYPE | AGENCY AND LIST TITLES | WA | ARNINGS | | |
| None found | | | No warnii | ngs found on HPD Prio | rity Hazard Lists |
| SUBSTANCE NOTES: Substance percentage. The exact ratio is pr | e name is UnDisclosed because it is propri roprietary. | ietary. Weight | percentage may r | not vary as this is an av | erage |
| UNDISCLOSED | | | | | ID: Undisclosed |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SC | REENING DATE: | 2022-03-25 15:58:18 | |
| %: 1.0000 | GS: LT-P1 | RC: None | NANO: No | SUBSTANCE ROLE: P | olymer species |
| | | | | | |

| HAZARD TYPE | AGENCY AND LIST TITLES | | WARNINGS | | | | | | |
|--|---|--------------|--|---------------------------------------|---------------------|--|--|--|--|
| RES | AOEC - Asthmagens | | Asthmagen (Rs) - sensitizer-induced | | | | | | |
| SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary. Weight percentage may not vary as this is an average percentage. The exact ratio is proprietary. | | | | | | | | | |
| UNDISCLOSED | | | | | ID: Undisclosed | | | | |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD | SCREENING DATE | E: 2021-09-03 17:27:25 | ; | | | | |
| %: 1.0000 | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE ROLE | : Photoinitiator | | | | |
| HAZARD TYPE | AGENCY AND LIST TITLES | ٢ | WARNINGS | | | | | | |
| SKI | EU - GHS (H-Statements) | | H317 - May cause sensitization - Cate | an allergic skin reaction egory 1] | n [Skin | | | | |
| SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary. Weight percentage may not vary as this is an average percentage. The exact ratio is proprietary. | | | | | | | | | |
| | Pharos Chemical and Materials Library | HAZARD | SCREENING DATE | - 2022-03-25 15:58:25 | ID: Undisclosed | | | | |
| %: 0.5000 | GS: LT-UNK | RC: None | | | | | | | |
| HAZARD TYPE | AGENCY AND LIST TITLES | 1 | WARNINGS | | | | | | |
| None found | | | No warı | nings found on HPD Pri | ority Hazard Lists | | | | |
| percentage. The exact ratio is po | ce name is UnDisclosed because it is propri proprietary. | | | | ID: Undisclosed | | | | |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD | SCREENING DATE | 2022-03-25 15:58:29 |) | | | | |
| %: 0.3000 | GS: NoGS | RC: None | NANO: No | SUBSTANCE ROL | E: Desiccant | | | | |
| HAZARD TYPE | AGENCY AND LIST TITLES | | WARNINGS | | | | | | |
| None found | | | No warr | nings found on HPD Pri | ority Hazard Lists | | | | |
| SUBSTANCE NOTES: Substance percentage. The exact ratio is pr | ce name is UnDisclosed because it is propri proprietary. | ietary. Weig | ht percentage may | y not vary as this is an a | average | | | | |
| UNDISCLOSED | | | | | ID: Undisclosed | | | | |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD | SCREENING DATE | E: 2022-03-25 15:58:30 |) | | | | |
| %: 0.3000 | GS: LT-P1 | RC: None | NANO: No SU | IBSTANCE ROLE: Antin | nicrobial Pesticide | | | | |
| HAZARD TYPE | AGENCY AND LIST TITLES | т | WARNINGS | | | | | | |
| MUL | German FEA - Substances Hazardous Waters | ; to | Class 3 - Severe Ha | azard to Waters | | | | | |
| SUBSTANCE NOTES: Substance percentage. The exact ratio is p | ce name is UnDisclosed because it is propri proprietary. | ietary. Weig | Iht percentage may | y not vary as this is an a | average | | | | |

UNDISCLOSED

| HAZARD SCREENING METHOD: Pharos Chemical and Materials Library | | HAZARD SCREENING DATE: 2022-03-25 15:58:30 | | | |
|--|------------------------|--|-----------|--|--|
| %: 0.3000 | GS: NoGS | RC: None | NANO: No | SUBSTANCE ROLE: Desiccant | |
| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS | | | |
| None found | | | No warnin | ngs found on HPD Priority Hazard Lists | |

None found

SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary. Weight percentage may not vary as this is an average percentage. The exact ratio is proprietary.

UNDISCLOSED

ID: Undisclosed

| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD | SCREENING DATE: | 2022-03-25 15:58:33 |
|--------------------------|---|----------|---|--|
| %: 0.2000 | GS: LT-P1 | RC: None | NANO: No | SUBSTANCE ROLE: Desiccant |
| HAZARD TYPE | AGENCY AND LIST TITLES | | WARNINGS | |
| END | TEDX - Potential Endocrine Disruptors | 6 | Potential Endocrine | Disruptor |
| MUL | German FEA - Substances Hazardous Waters | ; to | Class 2 - Hazard to | Waters |
| CAN | GHS - Australia | | H350 - May cause c or 1B] | ancer [Carcinogenicity - Category 1A |
| GEN | GHS - Australia | | H340 - May cause g - Category 1A or 1B | enetic defects [Germ cell mutagenicity] |
| МАМ | EU - GHS (H-Statements) Annex 6 Tab | | H304 - May be fatal [Aspiration hazard - | if swallowed and enters airways Category 1] |

SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary. Weight percentage may not vary as this is an average percentage. The exact ratio is proprietary.

| UNDISCLOSED | | | | | ID: Undisclosed |
|--------------------------|---------------------------------------|-------------|-------------|-----------------------|-------------------|
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCRE | ENING DATE: | 2022-03-25 15:58:38 | |
| %: 0.1000 | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE ROL | E: Filler |
| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS | | | |
| None found | | | No warni | ngs found on HPD Prio | rity Hazard Lists |

SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary. Weight percentage may not vary as this is an average percentage. The exact ratio is proprietary.

LACQUER (TOP LAYER #2)

%: 0.2000

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: According to the supplier and based on their technical/scientific knowledge as well as information from their suppliers, no chemical residual and impurities are present in the material however, they no test have been done.

OTHER MATERIAL NOTES: Substances names is UnDisclosed because they are proprietary. Some substances fall below the reportable thershold, and are not reported in the content inventory.

| UN | DI | SC | CLC |)S | ED |
|----|----|----|-----|----|----|

ID: Undisclosed

| HAZARD SCREENING METHOD | Pharos Chemical and Materials Library | HAZARD SCF | REENING DATE: | 2022-03-25 15:57:54 |
|-------------------------|---------------------------------------|------------|---------------|--------------------------------------|
| %: 25.0000 - 35.0000 | GS: BM-1 | RC: None | NANO: No | SUBSTANCE ROLE: Binder |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAR | NINGS | |
| None found | | | No warning | s found on HPD Priority Hazard Lists |

None found

SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary. Weight percentage may vary as the exact ratio is proprietary.

UNDISCLOSED

ID: Undisclosed

| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZAF | ND SCR | EENING DATE: | 2022-03-25 15:57:58 |
|--------------------------|---|--------|---------------|--------------------------------------|---|
| %: 15.0000 - 25.0000 | GS: LT-P1 | RC: No | one | NANO: No | SUBSTANCE ROLE: Binder |
| HAZARD TYPE | AGENCY AND LIST TITLES | | WARN | NINGS | |
| SKI | MAK | | Sensit | tizing Substance | e Sh - Danger of skin sensitization |
| MUL | German FEA - Substances Hazardous Waters | to | Class | 2 - Hazard to W | /aters |
| SKI | EU - GHS (H-Statements) Annex 6 Tab | le 3-1 | H315 Categ | | ritation [Skin corrosion/irritation - |
| SKI | EU - GHS (H-Statements) Annex 6 Tab | le 3-1 | | - May cause an ization - Catego | allergic skin reaction [Skin ory 1] |
| EYE | EU - GHS (H-Statements) Annex 6 Tab | le 3-1 | | - Causes seriou ge/eye irritation | s eye irritation [Serious eye - Category 2A] |
| AQU | EU - GHS (H-Statements) Annex 6 Tab | le 3-1 | | rdous to the aqu | tic life with long lasting effects uatic environment (chronic) - |

SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary. Weight percentage may vary as the exact ratio is proprietary.

| UNDISCLOSED | | | | ID: Undisclosed |
|--------------------------|---------------------------------------|-----------|---------------|--------------------------------------|
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SC | REENING DATE: | 2022-03-25 15:58:00 |
| %: 10.0000 - 20.0000 | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE ROLE: Monomer |
| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS | | |
| None found | | | No warning | s found on HPD Priority Hazard Lists |

SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary. Weight percentage may not vary as the exact ratio is proprietary.

| UNDISCLOSED | | | | ID: Undisclosed |
|--------------------------|---------------------------------------|-----------|---------------|---------------------------------------|
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SC | REENING DATE: | 2022-03-25 15:58:05 |
| %: 5.0000 | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE ROLE: Photoinitiator |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAF | NINGS | |
| None found | | | No warning | gs found on HPD Priority Hazard Lists |

| UNDISCLOSED | | | | | ID: Undisclosed |
|--------------------------|---|--------|----------------------------|---|--|
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZAR | D SCF | REENING DATE: | 2021-09-03 17:49:17 |
| %: 5.0000 - 10.0000 | GS: LT-P1 | RC: No | ne | NANO: No | SUBSTANCE ROLE: Monomer |
| HAZARD TYPE | AGENCY AND LIST TITLES | | WAR | NINGS | |
| SKI | МАК | | Sens | itizing Substanc | e Sh - Danger of skin sensitization |
| MUL | German FEA - Substances Hazardous Waters | to | Class 2 - Hazard to Waters | | |
| SKI | EU - GHS (H-Statements) | | | ' - May cause an itization - Catego | allergic skin reaction [Skin ory 1] |
| SKI | EU - GHS (H-Statements) | | | 5 - Causes skin ir gory 2] | ritation [Skin corrosion/irritation - |
| EYE | EU - GHS (H-Statements) | | |) - Causes seriou age/eye irritation | is eye irritation [Serious eye - Category 2A] |

SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary. Weight percentage may vary as the exact ratio is proprietary.

| | | | ID: Undisclose |
|---------------------------------------|--|--|--|
| Pharos Chemical and Materials Library | HAZARD SCF | REENING DATE: | 2021-09-03 17:50:34 |
| GS: BM-1 | RC: None | NANO: No | SUBSTANCE ROLE: Filler |
| AGENCY AND LIST TITLES | WAR | NINGS | |
| МАК | Carcinogen Group 3B - Evidence of carcinogenic e but not sufficient for classification | | |
| IARC | Grou | p 2b - Possibly c | arcinogenic to humans |
| - | GS: BM-1 AGENCY AND LIST TITLES MAK | GS: BM-1 RC: None AGENCY AND LIST TITLES WAR MAK Carci but n | GS: BM-1 RC: None NANO: No AGENCY AND LIST TITLES WARNINGS MAK Carcinogen Group 3B but not sufficient for c |

| UNDISCLOSED | | | | ID: Undisclosed |
|--------------------------|---------------------------------------|------------|---------------|---------------------------|
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCR | REENING DATE: | 2022-03-25 15:58:15 |
| %: 1.5000 | GS: LT-1 | RC: None | NANO: No | SUBSTANCE ROLE: Desiccant |

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|--|--|
| END | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor |
| CAN | EU - REACH Annex XVII CMRs | Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man |
| CAN | EU - Annex VI CMRs | Carcinogen Category 1B - Presumed Carcinogen based on animal evidence |
| MUL | ChemSec - SIN List | CMR - Carcinogen, Mutagen &/or Reproductive Toxicant |
| MUL | German FEA - Substances Hazardous to Waters | Class 3 - Severe Hazard to Waters |
| GEN | EU - REACH Annex XVII CMRs | Mutagen Category 2 - Substances which should be regarded as if they are Mutagenic to man |
| GEN | EU - Annex VI CMRs | Mutagen - Category 1B |
| CAN | GHS - Australia | H350 - May cause cancer [Carcinogenicity - Category 1A or 1B] |
| GEN | GHS - Australia | H340 - May cause genetic defects [Germ cell mutagenicity - Category 1A or 1B] |
| CAN | EU - GHS (H-Statements) Annex 6 Table 3-1 | H350 - May cause cancer [Carcinogenicity - Category 1A or 1B] |
| MAM | EU - GHS (H-Statements) Annex 6 Table 3-1 | H304 - May be fatal if swallowed and enters airways [Aspiration hazard - Category 1] |
| GEN | EU - GHS (H-Statements) Annex 6 Table 3-1 | H340 - May cause genetic defects [Germ cell mutagenicity - Category 1A or 1B] |

| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCI | REENING DATE: | 2022-03-25 15:58:28 |
|---|--|------------------------|----------------|---------------------------------------|
| %: 0.5000 | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE ROLE: Filler |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAR | NINGS | |
| None found | | | No warning | s found on HPD Priority Hazard List |
| SUBSTANCE NOTES: Substanc percentage. The exact ratio is p | e name is UnDisclosed because it is propr roprietary. | ietary. Weight p | percentage may | not vary as this is an average |
| percentage. The exact ratio is p | roprietary. | | | ID: Undisclose |
| percentage. The exact ratio is p JNDISCLOSED IAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCF | REENING DATE: | ID: Undiscloso 2022-03-25 15:58:33 |
| percentage. The exact ratio is p | roprietary. | | | ID: Undisclose |
| percentage. The exact ratio is p | Pharos Chemical and Materials Library | HAZARD SCF RC: None | REENING DATE: | ID: Undiscloso 2022-03-25 15:58:33 |

| LACQUER (BOTTOM LAYER #1) | %: 0.1000 | | | | | | |
|---|---------------------------------------|---------------|--------------|----------------------|-----------------|--|--|
| PRODUCT THRESHOLD: 1000 ppm | RESIDUALS AND IMPURITIES CO | ONSIDERED: Ye | es M | ATERIAL TYPE: Polyme | eric Material | | |
| RESIDUALS AND IMPURITIES NOTES: According to the supplier and based on their technical/scientific knowledge as well as information from their suppliers, no chemical residual and impurities are present in the material. however, they no test have been done. | | | | | | | |
| OTHER MATERIAL NOTES: Substances names is UnDisclosed because they are proprietary. Some substances fall below the reportable thershold, and are not reported in the content inventory. | | | | | | | |
| UNDISCLOSED | | | | | ID: Undisclosed | | |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCR | EENING DATE: | 2022-03-25 15:57:57 | | | |
| %: 20.0000 - 30.0000 | GS: BM-3dg | RC: None | NANO: No | SUBSTANCE ROL | E: Filler | | |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAF | NINGS | | | | |

SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary. Weight percentage may vary as the exact ratio is proprietary.

UNDISCLOSED

None found

ID: Undisclosed

No warnings found on HPD Priority Hazard Lists

| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCREENING DATE: 2022-03-25 15:58:02 |
|--------------------------|---------------------------------------|--|
| %: 10.0000 - 15.0000 | GS: LT-1 | RC: None NANO: No SUBSTANCE ROLE: Pigment |
| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
| CAN | US CDC - Occupational Carcinogens | Occupational Carcinogen |
| CAN | CA EPA - Prop 65 | Carcinogen - specific to chemical form or exposure route |
| CAN | IARC | Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources |
| CAN | МАК | Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value |
| END | TEDX - Potential Endocrine Disruptor | Potential Endocrine Disruptor |
| CAN | МАК | Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels |
| CAN | EU - GHS (H-Statements) Annex 6 Tal | le 3-1 H351 - Suspected of causing cancer [Carcinogenicity - Category 2] |
| | | |

SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary. Weight percentage may vary as the exact ratio is proprietary.

| UNDISCLOSED | | | | ID: Undisclosed |
|--------------------------|---------------------------------------|-------------|--------------|------------------------|
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCRI | EENING DATE: | 2022-03-25 15:58:01 |
| %: 10.0000 - 20.0000 | GS: LT-P1 | RC: None | NANO: No | SUBSTANCE ROLE: Binder |

| SKI | МАК | 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] |
| SKI | EU - GHS (H-Statements) Annex 6 Table 3-1 | H317 - May cause an allergic skin reaction [Skin sensitization - Category 1] |
| 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] |

| UNDISCLOSED | | | | | ID: Undisclosed |
|-----------------------------------|--|------------------|------------------|--------------------------|--------------------|
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCF | REENING DATE: | 2022-03-25 15:58:09 | |
| %: 5.0000 - 10.0000 | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE ROL | E: Monomer |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAI | RNINGS | | |
| None found | | | No warnii | ngs found on HPD Prie | ority Hazard Lists |
| SUBSTANCE NOTES: Substance | e name is UnDisclosed because it is propri | ietary. Weight p | percentage may | vary as the exact ratio | is proprietary. |
| | | | | | |
| UNDISCLOSED | | | | | ID: Undisclosed |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCF | REENING DATE: | 2021-09-03 18:02:53 | |
| %: 5.0000 - 10.0000 | GS: BM-1 | RC: None | NANO: No | SUBSTANCE RO | LE: Binder |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAI | RNINGS | | |
| None found | | | No warnii | ngs found on HPD Prie | ority Hazard Lists |
| SUBSTANCE NOTES: Substance | e name is UnDisclosed because it is propri | ietary. Weight p | percentage may | vary as the exact ratio | is proprietary. |
| | | | | | |
| UNDISCLOSED | | | | | ID: Undisclosed |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCF | REENING DATE: | 2021-09-03 18:04:21 | |
| %: 5.0000 | GS: LT-P1 | RC: None | NANO: No | SUBSTANCE ROLE: | Photoinitiator |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAI | RNINGS | | |
| None found | | | No warnii | ngs found on HPD Prie | ority Hazard Lists |
| | e name is UnDisclosed because it is propri | ietary. Weight p | percentage may i | not vary as this is an a | verage |
| percentage. The exact ratio is pr | roprietary. | | | | |
| UNDISCI OSED | | | | | ID: Undisclosed |
| UNDISCLUSED | | | | | ID: UNDISCIOSED |

| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD | SCREE | ENING DATE: | 2022-03-25 15:58:13 | |
|---|--|------------|---------|-----------------------------------|-------------------------------------|--------------------|
| %: 2.0000 | GS: LT-P1 | RC: Non | e | NANO: No | SUBSTANCE ROL | E: Binder |
| HAZARD TYPE | AGENCY AND LIST TITLES | | WARN | IINGS | | |
| RES | AOEC - Asthmagens | | Asthm | agen (Rs) - se | nsitizer-induced | |
| SUBSTANCE NOTES: Substance percentage. The exact ratio is pro | name is UnDisclosed because it is propri oprietary. | etary. Wei | ght per | centage may r | not vary as this is an av | verage |
| UNDISCLOSED | | | | | | ID: Undisclosed |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD | SCRE | ENING DATE: | 2022-03-25 15:58:20 | |
| %: 1.0000 | GS: NoGS | RC: Non | e | NANO: No | SUBSTANCE ROLE | E: Desiccant |
| HAZARD TYPE | AGENCY AND LIST TITLES | | WARN | IINGS | | |
| None found | | | | No warnir | ngs found on HPD Pric | ority Hazard Lists |
| SUBSTANCE NOTES: Substance percentage. The exact ratio is pro | name is UnDisclosed because it is propri oprietary. | etary. Wei | ght per | centage may r | not vary as this is an av | verage |
| UNDISCLOSED | | | | | | ID: Undisclosed |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD | SCRE | ENING DATE: | 2022-03-25 15:58:18 | |
| %: 1.0000 | GS: LT-UNK | RC: Non | e | NANO: No | SUBSTANCE RO | LE: Filler |
| HAZARD TYPE | AGENCY AND LIST TITLES | | WARN | IINGS | | |
| None found | | | | No warnir | ngs found on HPD Pric | rity Hazard Lists |
| SUBSTANCE NOTES: Substance percentage. The exact ratio is pro | name is UnDisclosed because it is propri oprietary. | etary. Wei | ght per | centage may r | not vary as this is an av | verage |
| UNDISCLOSED | | | | | | ID: Undisclosed |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD | SCRE | ENING DATE: | 2022-03-25 15:58:22 | |
| %: 1.0000 | GS: LT-UNK | RC: Non | e I | NANO: No | SUBSTANCE ROLE: | Photoinitiator |
| HAZARD TYPE | AGENCY AND LIST TITLES | | WARN | IINGS | | |
| SKI | EU - GHS (H-Statements) Annex 6 Tab | ole 3-1 | | - May cause ar ization - Categ | n allergic skin reaction jory 1] | [Skin |
| SUBSTANCE NOTES: Substance percentage. The exact ratio is pro | name is UnDisclosed because it is propri oprietary. | etary. Wei | ght per | centage may r | not vary as this is an av | verage |
| UNDISCLOSED | | | | | | ID: Undisclosed |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD | SCREE | ENING DATE: | 2022-03-25 15:58:28 | |
| %: 0.5000 | GS: NoGS | RC: Non | e | NANO: No | SUBSTANCE ROLE | : Desiccant |
| HAZARD TYPE | AGENCY AND LIST TITLES | | WARN | IINGS | | |
| None found | | | | No warnir | ngs found on HPD Pric | ority Hazard Lists |
| MMIA | | | | | | |

| UNDISCLOSED | | | | | ID: Undisclosed |
|--|---|----------------|--------------------|--------------------------|---------------------|
| | Pharos Chemical and Materials Library | HAZARD S(| | 2022-03-25 15:58:34 | |
| %: 0.2000 | GS: NoGS | RC: None | NANO: No | SUBSTANCE ROL | |
| %: 0.2000 | G5: NOG5 | RC: NOTE | INAINO: NO | SUBSTANCE NOL | E: Desiccant |
| HAZARD TYPE | AGENCY AND LIST TITLES | W | ARNINGS | | |
| None found | | | No warni | ings found on HPD Price | ority Hazard Lists |
| SUBSTANCE NOTES: Substance percentage. The exact ratio is pr | e name is UnDisclosed because it is propri roprietary. | ietary. Weight | percentage may | not vary as this is an a | iverage |
| UNDISCLOSED | | | | | ID: Undisclosed |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD S(| CREENING DATE: | 2022-03-25 15:58:34 | |
| %: 0.2000 | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE RO |)LE: Filler |
| HAZARD TYPE | AGENCY AND LIST TITLES | W | ARNINGS | | |
| None found | | | No warni | ings found on HPD Price | ority Hazard Lists |
| SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary. Weight percentage may not vary as this is an average percentage. The exact ratio is proprietary. | | | | | |
| UNDISCLOSED | | | | | ID: Undisclosed |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SC | CREENING DATE: | 2021-05-21 17:46:12 | |
| %: 0.1000 | GS: LT-P1 | RC: None | NANO: No SUB | BSTANCE ROLE: Antim | nicrobial Pesticide |
| HAZARD TYPE | AGENCY AND LIST TITLES | W | ARNINGS | | |
| MUL | German FEA - Substances Hazardous Waters | to Cl | lass 3 - Severe Ha | zard to Waters | |
| | e name is Unbiscosed because it is propri | | | not vary as this is an a | iverage |
| percentage. The exact ratio is p PRODUCT THRESHOLD: 1000 ppm | n RESIDUALS AND IMPURITIES CO | ONSIDERED: | Yes M | IATERIAL TYPE: Polym | eric Material |
| | TES: According to the supplier and based o d impurities are present in the material. how | | | - | mation from their |
| OTHER MATERIAL NOTES: Substa and are not reported in the content | nces names is UnDisclosed because they a inventory. | are proprietar | y. Some substanc | ces fall below the repo | rtable thershold, |
| UNDISCLOSED | | | | | ID: Undisclosed |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD S(| CREENING DATE: | 2022-03-25 15:57:54 | |
| %: 25.0000 - 35.0000 | GS: BM-1 | RC: None | NANO: No | SUBSTANCE RO | LE: Binder |
| HAZARD TYPE | AGENCY AND LIST TITLES | W | ARNINGS | | |
| None found | | | No warni | ings found on HPD Price | ority Hazard Lists |
| SUBSTANCE NOTES: Substanc | e name is UnDisclosed because it is propri | ietary. Weight | percentage may | vary as the exact ratio | is proprietary. |

UNDISCLOSED

| HAZARD SCREENING METHOD: Pharos Chemical and Materials Library | | HAZARD SC | REENING DAT | : 2022-03-25 15:57:53 | |
|--|------------------------|-----------|-------------|---|--|
| %: 25.0000 | GS: NoGS | RC: None | NANO: No | SUBSTANCE ROLE: Polymer species | |
| HAZARD TYPE | AGENCY AND LIST TITLES | W | ARNINGS | | |
| None found | | | No wa | rnings found on HPD Priority Hazard Lists | |

None found

SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary. Weight percentage may not vary as this is an average percentage. The exact ratio is proprietary.

UNDISCLOSED

ID: Undisclosed

| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD | SCREENING DATE: | 2022-03-25 15:57:58 |
|--------------------------|---|----------|---|--|
| %: 15.0000 - 25.0000 | GS: LT-P1 | RC: None | NANO: No | SUBSTANCE ROLE: Binder |
| HAZARD TYPE | AGENCY AND LIST TITLES | | WARNINGS | |
| SKI | МАК | | Sensitizing Substanc | e Sh - Danger of skin sensitization |
| MUL | German FEA - Substances Hazardous Waters | s to | Class 2 - Hazard to V | Vaters |
| SKI | EU - GHS (H-Statements) Annex 6 Tal | | H315 - Causes skin i Category 2] | rritation [Skin corrosion/irritation - |
| SKI | EU - GHS (H-Statements) Annex 6 Tal | | H317 - May cause ar sensitization - Categ | n allergic skin reaction [Skin ory 1] |
| EYE | EU - GHS (H-Statements) Annex 6 Tal | | H319 - Causes serior damage/eye irritatior | us eye irritation [Serious eye n - Category 2A] |
| AQU | EU - GHS (H-Statements) Annex 6 Tal | | • | tic life with long lasting effects juatic environment (chronic) - |

SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary. Weight percentage may vary as the exact ratio is proprietary.

| 1 | | | | | |
|---------------------------|---|-------------------|-----------------|-------------------------|--------------------|
| UNDISCLOSED | | | | | ID: Undisclosed |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCR | EENING DATE: | 2022-03-25 15:58:01 | |
| %: 10.0000 - 20.0000 | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE ROL | E: Binder |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAF | RNINGS | | |
| None found | | | No warni | ings found on HPD Prio | ority Hazard Lists |
| | | | | | |
| SUBSTANCE NOTES: Substanc | ce name is UnDisclosed because it is propri | ietary. Weight pr | ercentage may ' | vary as the exact ratio | is proprietary. |
| | | | | | |
| UNDISCLOSED | | | | | ID: Undisclosed |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCR | EENING DATE: | 2021-09-03 19:10:07 | |
| %: 5.0000 | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE ROLE: | Photoinitiator |
| | | | | | |

WARNINGS

None found

SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary. Weight percentage may not vary as this is an average percentage. The exact ratio is proprietary.

| UNDISCLOSED | | | | ID: Undisclose | ed |
|--------------------------|---|---------|---|--|----|
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD | SCREENING DATE: | 2022-03-25 15:58:10 | |
| %: 5.0000 - 10.0000 | GS: LT-P1 | RC: Non | NANO: No | SUBSTANCE ROLE: Monomer | |
| HAZARD TYPE | AGENCY AND LIST TITLES | | WARNINGS | | |
| SKI | МАК | | Sensitizing Substan | ce Sh - Danger of skin sensitization | |
| MUL | German FEA - Substances Hazardous Waters | s to | Class 2 - Hazard to | Waters | |
| SKI | EU - GHS (H-Statements) Annex 6 Tal | ble 3-1 | H315 - Causes skin Category 2] | irritation [Skin corrosion/irritation - | |
| SKI | EU - GHS (H-Statements) Annex 6 Tal | ble 3-1 | H317 - May cause a sensitization - Cate | n allergic skin reaction [Skin gory 1] | |
| EYE | EU - GHS (H-Statements) Annex 6 Tal | ble 3-1 | H319 - Causes serio damage/eye irritatio | ous eye irritation [Serious eye on - Category 2A] | |

SUBSTANCE NOTES: Substance name is UnDisclosed because it is proprietary. Weight percentage may vary as the exact ratio is proprietary.

| UNDISCLOSED | | | | ID: Undisclosed |
|--------------------------|---------------------------------------|---|------------------|---------------------------------------|
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCF | REENING DATE: | 2021-09-03 19:15:55 |
| %: 5.0000 | GS: BM-1 | RC: None | NANO: No | SUBSTANCE ROLE: Filler |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAI | RNINGS | |
| CAN | МАК | Carcinogen Group 3B - Evidence of carcinogenic effe but not sufficient for classification | | e e e e e e e e e e e e e e e e e e e |
| CAN | IARC | Gro | up 2b - Possibly | carcinogenic to humans |

| UNDISCLOSED | | | | | ID: Undisclosed |
|------------------------------|-------------------------------------|-------------|----------------|---------------------|-----------------|
| HAZARD SCREENING METHOD: Pha | aros Chemical and Materials Library | HAZARD SCRE | EENING DATE: 2 | 2022-03-25 15:58:20 | |
| %: 1.0000 | GS: LT-1 | RC: None | NANO: No | SUBSTANCE ROLE | Desiccant |

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|--|--|--|
| END | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor |
| CAN | EU - REACH Annex XVII CMRs | Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man |
| CAN | EU - Annex VI CMRs | Carcinogen Category 1B - Presumed Carcinogen based on animal evidence |
| MUL | ChemSec - SIN List | CMR - Carcinogen, Mutagen &/or Reproductive Toxicant |
| MUL | German FEA - Substances Hazardous to Waters | Class 3 - Severe Hazard to Waters |
| GEN | EU - REACH Annex XVII CMRs | Mutagen Category 2 - Substances which should be regarded as if they are Mutagenic to man |
| GEN | EU - Annex VI CMRs | Mutagen - Category 1B |
| CAN | GHS - Australia | H350 - May cause cancer [Carcinogenicity - Category 1A or 1B] |
| GEN | GHS - Australia | H340 - May cause genetic defects [Germ cell mutagenicity - Category 1A or 1B] |
| CAN | EU - GHS (H-Statements) Annex 6 Table 3-1 | H350 - May cause cancer [Carcinogenicity - Category 1A or 1B] |
| МАМ | EU - GHS (H-Statements) Annex 6 Table 3-1 | H304 - May be fatal if swallowed and enters airways [Aspiration hazard - Category 1] |
| GEN | EU - GHS (H-Statements) Annex 6 Table 3-1 | H340 - May cause genetic defects [Germ cell mutagenicity - Category 1A or 1B] |
| SUBSTANCE NOTES: Subspercentage. The exact ratio | stance name is UnDisclosed because it is proprietary. W o is proprietary. | leight percentage may not vary as this is an average |

| UNDISCLOSED | | | | | D: Undisclosed |
|--|--|------------------|--------------------------------|--|----------------|
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCRE | ENING DATE: | 2021-09-03 19:19:29 | |
| %: 0.5000 | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE ROLE | Filler |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAR | NINGS | | |
| None found | | | No warnir | ngs found on HPD Priorit | y Hazard Lists |
| SUBSTANCE NOTES: Substance percentage. The exact ratio is pr | e name is UnDisclosed because it is proprier roprietary. | etary. Weight pe | rcentage may r | not vary as this is an aver | rage |
| | | | | 1 | D. Undisclosed |
| UNDISCLOSED | Phonos Chomical and Materials Library | | | | D: Undisclosed |
| | Pharos Chemical and Materials Library GS: NoGS | HAZARD SCRE | ENING DATE: NANO: No | | |
| HAZARD SCREENING METHOD: | | RC: None | | 2022-03-25 15:58:31 | |
| HAZARD SCREENING METHOD: %: 0.2000 | GS: NoGS | RC: None | NANO: No NINGS | 2022-03-25 15:58:31 | Desiccant |
| HAZARD SCREENING METHOD: %: 0.2000 HAZARD TYPE | GS: NoGS | RC: None | NANO: No NINGS | 2022-03-25 15:58:31 SUBSTANCE ROLE: I | Desiccant |

.

| UNDISCLOSED | | ID: Undisclose |
|--------------------------|---|--|
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCREENING DATE: 2022-03-25 15:58:31 |
| %: 0.2000 | GS: LT-P1 | RC: None NANO: No SUBSTANCE ROLE: Antimicrobial Pesticid |
| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
| MUL | German FEA - Substances Hazardous Waters | s to Class 3 - Severe Hazard to Waters |

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 | Standard Method V1.2 (| rd Method V1.2 (Section 01350/CHPS) - Not applicable | | |
|---|--|--|---|--|
| CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: TAFISA Canada inc. CERTIFICATE URL: CERTIFICATION AND COMPLIANCE NOTES: | ISSUE DATE: 2021-05- 18 | EXPIRY DATE: | CERTIFIER OR LAB: N/A | |
| MULTI-ATTRIBUTE | Multi-attribute: CPA 4- | 19 Eco-Certified Compo | sites (ECC) | |
| CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: TAFISA Canada inc. CERTIFICATE URL: | ISSUE DATE: 2019-01- 02 | EXPIRY DATE: | CERTIFIER OR LAB: Composite Panel Association | |
| CERTIFICATION AND COMPLIANCE NOTES: | | | | |
| FORMALDEHYDE EMISSIONS | | · · · | , CAN/CSA-0160-16, ANSI A208.1 e Toxic Control Measures (ATCM) | |
| CERTIFYING PARTY: Second Party APPLICABLE FACILITIES: Tafisa Canada inc. CERTIFICATE URL: | ISSUE DATE: 2019-06- 19 | EXPIRY DATE: | CERTIFIER OR LAB: Composite Panel Association | |
| CERTIFICATION AND COMPLIANCE NOTES: Fulfills The F A208.1, California Air Resources Board (CARB) Airborne T | • | | 40 CFR 770), CAN/CSA-0160-16, ANSI | |
| FORMALDEHYDE EMISSIONS | Substrate meet CARB Composite Wood ATCM CA 93120 Ultra Low-Emitting Formaldehyde (ULEF). | | | |
| CERTIFYING PARTY: Second Party APPLICABLE FACILITIES: Tafisa Canada inc. CERTIFICATE URL: | ISSUE DATE: 2021-09- 09 | EXPIRY DATE: 2022- 05-07 | CERTIFIER OR LAB: Composite Panel Association | |
| CERTIFICATION AND COMPLIANCE NOTES: Fulfills The F Emitting Formaldehyde (ULEF). | Requirements Of: Substrate | meet CARB Composite V | Vood ATCM CA 93120 Ultra Low- | |
| SUSTAINABLE FORESTRY | FSC Certification - Sing | gle Chain of Custody and | d Controlled Wood. | |
| CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Tafisa Canada inc. CERTIFICATE URL: | ISSUE DATE: 2016-07- 28 | EXPIRY DATE: 2022- 07-27 | CERTIFIER OR LAB: Preferred by Nature | |
| CERTIFICATION AND COMPLIANCE NOTES: Certificate re | egistration code NC-COC-00 | 03089, NC-CW-003089 F\$ | SC® licence code : FSC-C006416. | |
| MANAGEMENT | ISO 14001 Environment | tal management system | s. | |
| CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Tafisa Canada inc. CERTIFICATE URL: | ISSUE DATE: 2021-06- 17 | EXPIRY DATE: 2024- 06-21 | CERTIFIER OR LAB: Bureau de Normalisation du Québec | |
| CERTIFICATION AND COMPLIANCE NOTES: Certificate N | lumber: 55149-1-02. | | | |
| MANAGEMENT | ISO 9001 Quality management systems. | | | |
| CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Tafisa Canada inc. CERTIFICATE URL: | ISSUE DATE: 2021-06- 14 | EXPIRY DATE: 2024- 06-21 | CERTIFIER OR LAB: Bureau de Normalisation du Québec | |
| | | | | |
| CERTIFICATION AND COMPLIANCE NOTES: Certificate N | lumber: 55148-1-02 | | | |

| CERTIFYING PARTY: Third Party | ISSUE DATE: 2021-06- | EXPIRY DATE: 2024- | CERTIFIER O |
|---|----------------------|--------------------|---------------|
| APPLICABLE FACILITIES: Tafisa Canada inc. | 14 | 06-21 | Normalisation |
| CERTIFICATE URL: | | | |

OR LAB: Bureau de on du Québec

CERTIFICATION AND COMPLIANCE NOTES: Certificate Number: 55150-1-02.

🛨 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

Tafisa® LUMMIA can be specified in a wide variety of dimensions for efficient processing by furniture and millworker companies alike. Tafisa® Lummia is made using superior coating technology, LUMMIA is available in two long-lasting finishes: High Gloss and Perfect Matt. Tafisa® offers two types of decorative panels: Tafipan EPA TSCA Title VI compliant and Tafipan-EVOLO: EPA TSCA Title VI compliant and CARB ULEF (Ultra Low Emitting Formaldehyde) certified.

MANUFACTURER INFORMATION

MANUFACTURER: Tafisa Canada inc. ADDRESS: 4660, Villeneuve Street Lac-Megantic Quebec G6B2C3, Canada WEBSITE: https://tafisa.ca/en CONTACT NAME: Jonathan Lamarre TITLE: Environmental Engineer PHONE: 819-583-2930 # 319 EMAIL: jlamarre@tafisa.ca

LT-1 List Translator 1 (Likely Benchmark-1)

to a LT-1 or LTP1 score.) NoGS No GreenScreen.

LT-UNK List Translator Benchmark Unknown (the chemical is

information contained within the list did not result in a clear mapping

present on at least one GreenScreen Specified List, but the

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)

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.

High-Pressure Laminated (HPL) by Tafisa Canada inc.

Health Product Declaration v2.2 created via: HPDC Online Builder

HPD UNIQUE IDENTIFIER: 27934

CLASSIFICATION: 12 36 71 Paper-Composite Countertops

PRODUCT DESCRIPTION: This HPD covers the HPL Branded SURFORMA®. It is a complete, harmonized line of High Pressure Laminated to our TFL Prelude and Sommet embossed in-register (EIR) Series. HPL panels are manufactured in two steps. The first consists of thermofusing the wear and decorative layers to multiple layers of kraft paper to form a single laminated sheet. Steel press plates are used to create the surface texture. The sheet is then bonded to a substrate (particleboard, MDF or other) by the end-user to create a finished product such as furniture, millwork, cabinetry and countertops.

Section 1: Summary

CONTENT INVENTORY

- Inventory Reporting Format
- Nested Materials Method
- C Basic Method
- Threshold Disclosed Per
- O Material
- O Product

Threshold Level C 100 ppm C 1,000 ppm C Per GHS SDS C Other

- Residuals/Impurities Considered in 3 of 3 Materials
- Explanation(s) provided for Residuals/Impurities? © Yes © No

Nested Method / Product Threshold

 All Substances Above the Threshold Indicated Are:

 Characterized
 Image: Yes Ex/SC Image: Yes Image: No

 % weight and role provided for all substances except SC

 substances characterized according to SC guidance.

 Screened
 Image: Yes Ex/SC Image: No

 All substances screened using Priority Hazard Lists with results disclosed except SC substances screened according to SC guidance.

 Identified
 Image: Yes Ex/SC Image: No

 One or more substances not disclosed by Name

(Specific or Generic) and Identifier and/ or one or more Special Condition did not follow guidance.

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY GREENSCREEN SCORE | HAZARD TYPE

IMPREGNATED KRAFT PAPER [SC:DRY PAPER Not Screened CURED THERMOSETTING RESINS LT-P1 | RES UNDISCLOSED LT-P1 | END UNDISCLOSED BM-4] IMPREGNATED DECOR PAPER [SC:PAPER Not Screened UNDISCLOSED LT-UNK UNDISCLOSED BM-4 WATER BM-4 UNDISCLOSED LT-UNK] IMPREGNATED OVERLAY [UNDISCLOSED LT-UNK SC:DRY OVERLAY PAPER Not Screened UNDISCLOSED BM-4 UNDISCLOSED LT-P1 | END UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK | SKI UNDISCLOSED LT-UNK | MUL | RES | CAN UNDISCLOSED LT-P1 | END] Number of Greenscreen BM-4/BM3 contents ... 4

Contents highest concern GreenScreen Benchmark or List translator Score ... LT-P1 Nanomaterial No

INVENTORY AND SCREENING NOTES:

Special conditions applied: BiologicalMaterial

[LEED v4] "Yes ex/SC" result is due only to materials and substances for which Special Conditions were applied. Thus "Yes ex/SC" does not disqualify the product for the LEED v4 Materials and Resources Disclosure and Optimization credit, Option 1.

HPD prepared using a Nested Materials Inventory with a product threshold at 1,000 ppm. The content inventory includes High Pressure Decorative Laminate (HPL) products. This product contain materials with Special Conditions (reaction product, defined substances without identifier, recycled content - mixture) as per the HPDC. Reporting of Biological materials (SCBioMats/2018-02-23) was done according to HPDC Guidelines. Guidelines for reporting Special Conditions materials are still under development by HPDC. TAFISA Company will update the HPD accordingly once these guidelines get published. Resin substances at or above the threshold, have been declared as unreacted Substances present in HPL , as well as known residuals and impurities, have been disclosed at 1,000 ppm. More details about how residuals and impurities were considered available in the appropriate sections.

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: UL/GreenGuard Gold Certified LCA: Environmental Product Declaration (EPD) by IBU (Arbeitsgemeinschaft Umweltverträgliches Bauprodukt E.V.(AUB) Other: NSF/ANSI 35 High Pressure Decorative Laminate For Surfacing Food Service Equipment.

Pre-checked for LEED v4 Material Ingredients Option 1

Third Party Verified? C Yes C No PREPARER: Vertima VERIFIER: VERIFICATION #: SCREENING DATE: 2022-03-25 PUBLISHED DATE: 2022-03-25 EXPIRY DATE: 2025-03-25 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 2.2, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-2-standard

| IMPREGNATED KRAFT PAPER | %: 79.7800 - 86.4200 | |
|--|--|--|
| PRODUCT THRESHOLD: 1000 ppm | RESIDUALS AND IMPURITIES CONSIDERED: Yes | MATERIAL TYPE: Paper or Cardboard |
| RESIDUALS AND IMPURITIES NOTES: T in their product. | The supplier declared, backed by technical/scientific knowle | edge, that no impurities or residuals were present |
| OTHER MATERIAL NOTES: Weight perc | entage may vary as the exact ratio is proprietary. | |
| | | |
| | | |
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| | | |
| | | |
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| | | |
| | | |
| | | |

| IAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCI | REENING DATE | Not Screened |
|---|--|--|---|---|
| 6: 60.0000 - 70.0000 | GS: Not Screened | RC: None | NANO: No SUE | BSTANCE ROLE: Structure compon |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAF | RNINGS | |
| | Hazard Screening not performed | | | |
| SUBSTANCE NOTES: Version: SCBioMats/2018-02-23 Category: Tree-based materials Identifier: Kraft Paper | | | | |
| | e information on allergens, hyper-accumula and other potential hazards or sources of h ct ratio is proprietary. | | | |
| URED THERMOSETTING RESIN | NS | | _ | ID: Undisclo |
| AZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCI | REENING DATE | : 2022-03-25 15:54:31 |
| o: 30.0000 - 40.0000 | GS: LT-P1 | RC: None | NANO: No | SUBSTANCE ROLE: Coating |
| | | | | |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAF | RNINGS | |
| RES | AGENCY AND LIST TITLES AOEC - Asthmagens ercentage may vary as this HPD covers mu | Asth | imagen (Rs) - se | ensitizer-induced d the exact ratio is proprietary. |
| RES SUBSTANCE NOTES: Weight pe | AOEC - Asthmagens | Asth Itiple particle b | umagen (Rs) - se board grades an | d the exact ratio is proprietary. ID: Undisclos |
| RES SUBSTANCE NOTES: Weight pe INDISCLOSED IAZARD SCREENING METHOD: | AOEC - Asthmagens ercentage may vary as this HPD covers mu | Asth Itiple particle b | umagen (Rs) - se board grades an | d the exact ratio is proprietary. ID: Undisclos |
| RES SUBSTANCE NOTES: Weight pe NDISCLOSED AZARD SCREENING METHOD: 6: 0.4100 | AOEC - Asthmagens ercentage may vary as this HPD covers mu Pharos Chemical and Materials Library | Asth Itiple particle b HAZARD SCI RC: None | magen (Rs) - se board grades an | d the exact ratio is proprietary. ID: Undisclos : 2022-03-25 15:54:33 |
| RES SUBSTANCE NOTES: Weight pe INDISCLOSED IAZARD SCREENING METHOD: 6: 0.4100 HAZARD TYPE | AOEC - Asthmagens ercentage may vary as this HPD covers mu Pharos Chemical and Materials Library GS: LT-P1 | Asth Itiple particle b HAZARD SCI RC: None WAF | opoard grades an REENING DATE: NANO: No | d the exact ratio is proprietary. ID: Undisclos : 2022-03-25 15:54:33 SUBSTANCE ROLE: Plasticizer |
| SUBSTANCE NOTES: Weight pe JNDISCLOSED HAZARD SCREENING METHOD: %: 0.4100 HAZARD TYPE END | AOEC - Asthmagens ercentage may vary as this HPD covers mu Pharos Chemical and Materials Library GS: LT-P1 AGENCY AND LIST TITLES | Asth Itiple particle b HAZARD SCI RC: None WAF | amagen (Rs) - se board grades an REENING DATE NANO: No RNINGS | d the exact ratio is proprietary. ID: Undisclos : 2022-03-25 15:54:33 SUBSTANCE ROLE: Plasticizer Disruptor |
| RES SUBSTANCE NOTES: Weight pe JNDISCLOSED HAZARD SCREENING METHOD: %: 0.4100 HAZARD TYPE END SUBSTANCE NOTES: The suppl | AOEC - Asthmagens ercentage may vary as this HPD covers mu Pharos Chemical and Materials Library GS: LT-P1 AGENCY AND LIST TITLES TEDX - Potential Endocrine Disruptors | Asth Itiple particle b HAZARD SCI RC: None WAF | amagen (Rs) - se board grades an REENING DATE NANO: No RNINGS | d the exact ratio is proprietary. ID: Undisclos : 2022-03-25 15:54:33 SUBSTANCE ROLE: Plasticizer Disruptor |
| RES SUBSTANCE NOTES: Weight pe JNDISCLOSED HAZARD SCREENING METHOD: %: 0.4100 HAZARD TYPE END SUBSTANCE NOTES: The suppl product | AOEC - Asthmagens ercentage may vary as this HPD covers mu Pharos Chemical and Materials Library GS: LT-P1 AGENCY AND LIST TITLES TEDX - Potential Endocrine Disruptors | Asth Itiple particle b HAZARD SCI RC: None WAF Pote c knowledge, t | amagen (Rs) - se board grades an REENING DATE: NANO: No RNINGS ential Endocrine hat no impuritie: | d the exact ratio is proprietary. ID: Undisclos : 2022-03-25 15:54:33 SUBSTANCE ROLE: Plasticizer Disruptor s or residuals were present in their |
| RES SUBSTANCE NOTES: Weight pe JNDISCLOSED AZARD SCREENING METHOD: (A 2 ARD TYPE END SUBSTANCE NOTES: The suppl product JNDISCLOSED AZARD SCREENING METHOD: | AOEC - Asthmagens ercentage may vary as this HPD covers mu Pharos Chemical and Materials Library GS: LT-P1 AGENCY AND LIST TITLES TEDX - Potential Endocrine Disruptors lier declared, backed by technical/scientific | Asth Itiple particle b HAZARD SCI RC: None WAF Pote c knowledge, t | amagen (Rs) - se board grades an REENING DATE: NANO: No RNINGS ential Endocrine hat no impuritie: | d the exact ratio is proprietary. ID: Undisclos 2022-03-25 15:54:33 SUBSTANCE ROLE: Plasticizer Disruptor s or residuals were present in their ID: Undisclos |
| RES SUBSTANCE NOTES: Weight pe JNDISCLOSED AZARD SCREENING METHOD: (A 2 ARD TYPE END SUBSTANCE NOTES: The suppl product JNDISCLOSED AZARD SCREENING METHOD: | AOEC - Asthmagens ercentage may vary as this HPD covers mu Pharos Chemical and Materials Library GS: LT-P1 AGENCY AND LIST TITLES TEDX - Potential Endocrine Disruptors lier declared, backed by technical/scientific Pharos Chemical and Materials Library | Asth Itiple particle b HAZARD SCI RC: None WAF Pote c knowledge, t HAZARD SCI RC: None | magen (Rs) - se board grades an REENING DATE NANO: No RNINGS ential Endocrine hat no impurities | d the exact ratio is proprietary. ID: Undisclos : 2022-03-25 15:54:33 SUBSTANCE ROLE: Plasticizer Disruptor s or residuals were present in their ID: Undisclos : 2022-03-25 15:54:35 |
| RES SUBSTANCE NOTES: Weight pe JNDISCLOSED HAZARD SCREENING METHOD: %: 0.4100 HAZARD TYPE END SUBSTANCE NOTES: The suppl product JNDISCLOSED HAZARD SCREENING METHOD: %: 0.1500 | AOEC - Asthmagens ercentage may vary as this HPD covers mu Pharos Chemical and Materials Library GS: LT-P1 AGENCY AND LIST TITLES TEDX - Potential Endocrine Disruptors lier declared, backed by technical/scientific Pharos Chemical and Materials Library GS: BM-4 | Asth Itiple particle b HAZARD SCI RC: None WAF Pote c knowledge, t HAZARD SCI RC: None | magen (Rs) - se board grades an REENING DATE: NANO: No RNINGS ential Endocrine hat no impuritie: REENING DATE: NANO: No RNINGS | d the exact ratio is proprietary. ID: Undisclos : 2022-03-25 15:54:33 SUBSTANCE ROLE: Plasticizer Disruptor s or residuals were present in their ID: Undisclos : 2022-03-25 15:54:35 |

IMPREGNATED DECOR PAPER %: 9.8800 - 16.3900 PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes MATERIAL TYPE: Paper or Cardboard RESIDUALS AND IMPURITIES NOTES: The supplier declared, backed by technical/scientific knowledge, that no impurities or residuals were present in their product. OTHER MATERIAL NOTES: Weight percentage may vary as the exact ratio is proprietary. **SC:PAPER** ID: SC:Bio HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: Not Screened %: 57.2300 - 57.8200 GS: Not Screened RC: None NANO: No SUBSTANCE ROLE: Structure component HAZARD TYPE AGENCY AND LIST TITLES WARNINGS Hazard Screening not performed SUBSTANCE NOTES: Version: SCBioMats/2018-02-23 Category: Tree-based materials Identifier: Kraft Paper 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. 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. Weight percentage may vary as the exact ratio is proprietary. UNDISCLOSED **ID: Undisclosed** HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2022-03-25 15:54:30 %: 35.9000 GS: LT-UNK RC: None NANO: No SUBSTANCE ROLE: Coating HAZARD TYPE AGENCY AND LIST TITLES WARNINGS None found No warnings found on HPD Priority Hazard Lists SUBSTANCE NOTES: The supplier declared, backed by technical/scientific knowledge, that no impurities or residuals were present in their product. UNDISCLOSED ID: Undisclosed HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2022-03-25 15:54:32 SUBSTANCE ROLE: Diluent %: 4.9000 GS: BM-4 RC: None NANO: No HAZARD TYPE AGENCY AND LIST TITLES WARNINGS No warnings found on HPD Priority Hazard Lists None found SUBSTANCE NOTES: Accoroding to the supplier, residual and impurity are below the threshold. WATER ID: 7732-18-5 HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2022-03-25 15:54:33 %: 1.1800 - 1.7700 GS: BM-4 RC: None NANO: No SUBSTANCE ROLE: Structure component

WARNINGS

No warnings found on HPD Priority Hazard Lists

None found

SUBSTANCE NOTES: Accoroding to the supplier, residual and impurity are below the threshold. Weight percentage may vary as the exact ratio is proprietary.

| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD S | CREENING DA | TE: 2022-03-25 1 | 5:54:34 |
|------------------------------------|--|----------------|----------------|----------------------|------------------------|
| %: 0.2000 | GS: LT-UNK | RC: None | NANO: No | SUBSTANC | E ROLE: Surfactant |
| HAZARD TYPE | AGENCY AND LIST TITLES | WA | RNINGS | | |
| None found | | | No war | nings found on HP | D Priority Hazard List |
| SUBSTANCE NOTES: The supp product. | lier declared, backed by technical/scientifi | c knowledge, | that no impuri | ities or residuals w | ere present in their |
| PREGNATED OVERLAY | %: 3.7000 - 3.8300 | | | | |
| RODUCT THRESHOLD: 1000 ppn | n RESIDUALS AND IMPURITIES CO | ONSIDERED: | Yes | MATERIAL TYPE: | Polymeric Material |
| | ES: The supplier declared, backed by tech | nnical/scienti | ïc knowledge, | that no impurities | or residuals were pres |
| their product | | | | | |
| - | percentage may vary as the exact ratio is | proprietary. | | | |
| JNDISCLOSED | | | | | ID: Undisclos |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD S | CREENING DA | TE: 2022-03-25 1 | 5:54:30 |
| %: 63.1800 | GS: LT-UNK | RC: None | NANO: N | SUBSTANC | CE ROLE: Coating |
| HAZARD TYPE | AGENCY AND LIST TITLES | WA | RNINGS | | |
| None found | | | No war | nings found on HP | D Priority Hazard List |
| SUBSTANCE NOTES: The supp product. | lier declared, backed by technical/scientifi | c knowledge, | that no impuri | ities or residuals w | ere present in their |
| SC:DRY OVERLAY PAPER | | | | | ID: SC:B |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD S | CREENING DA | TE: Not Screene | d |
| %: 30.0000 GS | S: Not Screened | RC: None | NANO: No | SUBSTANCE ROLE | E: Structure compone |
| HAZARD TYPE | AGENCY AND LIST TITLES | WA | RNINGS | | |
| | Hazard Screening not performed | | | | |
| | | | | | |
| | | | | | |

SUBSTANCE NOTES: Version: SCBioMats/2018-02-23 Category: Tree-based materials Identifier: Paper

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. This paper is transparent.

| AND CODEENING METHOD. | The second second second second second | | | 0000 00 0E 4E-E | |
|--|---|---|---|---|--|
| IAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZAKD SU | | : 2022-03-25 15:5 | 4:31 |
| %: 5.0600 | GS: BM-4 | RC: None | NANO: No | SUBSTANCE | ROLE: Diluent |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAF | RNINGS | | |
| None found | | | No warnin | igs found on HPD | Priority Hazard List |
| SUBSTANCE NOTES: Accorodin | ng to the supplier, residual and impurity are | > below the thr | eshold. | | |
| UNDISCLOSED | | | | | ID: Undisclos |
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SC | REENING DATE | : 2022-03-25 15:5 | 4:32 |
| %: 1.2700 | GS: LT-P1 | RC: None | NANO: No | SUBSTANCE F | OLE: Plasticizer |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAF | RNINGS | | |
| END | TEDX - Potential Endocrine Disruptors | Pote | ential Endocrine | Disruptor | |
| SUBSTANCE NOTES: The suppl product. | lier declared, backed by technical/scientific | c knowledge, t | hat no impuritie | s or residuals were | e present in their |
| product. | | _ | | | ID: Undisclose |
| product. UNDISCLOSED HAZARD SCREENING METHOD: | lier declared, backed by technical/scientific Pharos Chemical and Materials Library GS: LT-UNK | _ | | : 2022-03-25 15:5 | ID: Undisclose |
| product. UNDISCLOSED HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SC RC: None | REENING DATE | : 2022-03-25 15:5 | ID: Undisclos |
| product. UNDISCLOSED HAZARD SCREENING METHOD: %: 0.2200 | Pharos Chemical and Materials Library GS: LT-UNK | HAZARD SC RC: None | REENING DATE NANO: No RNINGS | : 2022-03-25 15:5 SUBSTANCE F | ID: Undisclos |
| product. UNDISCLOSED HAZARD SCREENING METHOD: %: 0.2200 HAZARD TYPE None found | Pharos Chemical and Materials Library GS: LT-UNK | HAZARD SC RC: None WAR | REENING DATE NANO: No RNINGS No warnin | : 2022-03-25 15:5 SUBSTANCE F | ID: Undisclos 4:34 ROLE: Surfactant Priority Hazard List |
| product. UNDISCLOSED HAZARD SCREENING METHOD: %: 0.2200 HAZARD TYPE None found SUBSTANCE NOTES: The suppl | Pharos Chemical and Materials Library GS: LT-UNK AGENCY AND LIST TITLES | HAZARD SC RC: None WAR | REENING DATE NANO: No RNINGS No warnin | : 2022-03-25 15:5 SUBSTANCE F | ID: Undisclos 4:34 ROLE: Surfactant Priority Hazard List |
| product. UNDISCLOSED HAZARD SCREENING METHOD: %: 0.2200 HAZARD TYPE None found SUBSTANCE NOTES: The suppl product. UNDISCLOSED | Pharos Chemical and Materials Library GS: LT-UNK AGENCY AND LIST TITLES | HAZARD SC RC: None WAR | REENING DATE NANO: No RNINGS No warnin | : 2022-03-25 15:5 SUBSTANCE F | ID: Undisclos 4:34 ROLE: Surfactant Priority Hazard List present in their ID: Undisclos |
| product. UNDISCLOSED HAZARD SCREENING METHOD: %: 0.2200 HAZARD TYPE None found SUBSTANCE NOTES: The suppl product. UNDISCLOSED | Pharos Chemical and Materials Library GS: LT-UNK AGENCY AND LIST TITLES | HAZARD SC RC: None WAR c knowledge, t | REENING DATE NANO: No RNINGS No warnin that no impuritie | : 2022-03-25 15:5 SUBSTANCE F ags found on HPD s or residuals were | ID: Undisclos 4:34 ROLE: Surfactant Priority Hazard List e present in their ID: Undisclos |
| product. JNDISCLOSED HAZARD SCREENING METHOD: %: 0.2200 HAZARD TYPE None found SUBSTANCE NOTES: The suppl product. JNDISCLOSED HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library GS: LT-UNK AGENCY AND LIST TITLES lier declared, backed by technical/scientific Pharos Chemical and Materials Library | HAZARD SC RC: None WAF c knowledge, t HAZARD SC RC: None | REENING DATE NANO: No RNINGS No warnin that no impuritie | : 2022-03-25 15:5 SUBSTANCE F ags found on HPD s or residuals were | ID: Undisclos 4:34 ROLE: Surfactant Priority Hazard List present in their ID: Undisclos |

SUBSTANCE NOTES: The supplier declared, backed by technical/scientific knowledge, that no impurities or residuals were present in their product.

| UNDISCLOSED | | | | ID: Undisclose |
|--------------------------|---------------------------------------|------------|----------------------------------|---|
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZARD SCI | REENING DATE: | 2022-03-25 15:54:36 |
| %: 0.0600 | GS: LT-UNK | RC: None | NANO: No | SUBSTANCE ROLE: Catalyst |
| HAZARD TYPE | AGENCY AND LIST TITLES | WAF | RNINGS | |
| MUL | US EPA - PPT Chemical Action Plans | EPA | Chemical of Cor | ncern - Action Plan published |
| RES | AOEC - Asthmagens | Asth | imagen (G) - gen | erally accepted |
| CAN | МАК | | cinogen Group 4 under MAK/BAT | - Non-genotoxic carcinogen with low levels |
| RES | МАК | | sitizing Substanc sitization | e Sah - Danger of airway & skin |
| RES | US EPA - PPT Chemical Action Plans | Inha | lation sensitizer | causing asthma and lung damage |

SUBSTANCE NOTES: The supplier declared, backed by technical/scientific knowledge, that no impurities or residuals were present in their product.

| UNDISCLOSED | | | | | ID: Undisclosed |
|--------------------------|---------------------------------------|--------|-------|------------------|---------------------------|
| HAZARD SCREENING METHOD: | Pharos Chemical and Materials Library | HAZAR | D SCR | EENING DATE: | 2022-03-25 15:54:36 |
| %: 0.0500 | GS: LT-P1 | RC: No | ne | NANO: No | SUBSTANCE ROLE: Lubricant |
| HAZARD TYPE | AGENCY AND LIST TITLES | | WARN | IINGS | |
| END | TEDX - Potential Endocrine Disruptors | ; | Poten | tial Endocrine D | Disruptor |

SUBSTANCE NOTES: The supplier declared, backed by technical/scientific knowledge, that no impurities or residuals were present in their product.

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 | UL/GreenGuard Gold Certified | | | | |
|--|---|-----------------------------|---|--|--|
| CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: SURFORMA, SA CERTIFICATE URL: | ISSUE DATE: 2018-10- 31 | EXPIRY DATE: 2022- 01-31 | CERTIFIER OR LAB: UL Environmental | | |
| CERTIFICATION AND COMPLIANCE NOTES: UL 2818 - 2013 Standard for Chemical Emissions for Building Materials, Finishes and Furnishings. Certificate Number: 133597-410 | | | | | |
| LCA | Environmental Product Declaration (EPD) by IBU (Arbeitsgemeinschaft Umweltverträgliches Bauprodukt E.V.(AUB) | | | | |
| CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: ICDLI aisbl – International Committee of the Decorative Laminates Industry CERTIFICATE URL: | ISSUE DATE: 2017-11- 13 | EXPIRY DATE: 2022- 11-12 | CERTIFIER OR LAB: IBU - Institut Bauen und Umwelt e.V. | | |
| CERTIFICATION AND COMPLIANCE NOTES: Declaration N | lumber: EPD-ICL-2017015 | 5-CBE1-EN | | | |
| OTHER | NSF/ANSI 35 High Pressure Decorative Laminate For Surfacing Food Service Equipment. | | | | |
| CERTIFYING PARTY: Third Party | ISSUE DATE: 2021-05- | EXPIRY DATE: | CERTIFIER OR LAB: NSF | | |

CERTIFICATION AND COMPLIANCE NOTES: Certificate Number C0496660-02

😑 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

High-pressure decorative thin laminates (HPL) are characterised by their aesthetic qualities, strength, durability and functional performance. HPL sheets are available in a wide variety of colours, patterns and surface finishes. They are resistant to wear, impact, scratching, moisture, heat, staining and light and possess good hygienic and -antistatic properties. HPL are easy to clean and maintain. Thin HPL are not self-supporting and require bonding to a substrate. Typically they are glued to wood-based substrates to from a HPL Composite Panel.

MANUFACTURER INFORMATION

MANUFACTURER: Tafisa Canada inc. ADDRESS: 4660, Villeneuve Street, Lac-Megantic Quebec G6B 2C3, CANADA WEBSITE: https://tafisa.ca/en

CONTACT NAME: Jonathan Lamarre TITLE: Environmental Engineer PHONE: 819-583-2930 # 319 EMAIL: jlamarre@tafisa.ca

LT-1 List Translator 1 (Likely Benchmark-1)

to a LT-1 or LTP1 score.)

NoGS No GreenScreen.

LT-UNK List Translator Benchmark Unknown (the chemical is

information contained within the list did not result in a clear mapping

present on at least one GreenScreen Specified List, but the

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)

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.

PRODUCT CERTIFICATE

Valid from: 03/2022 to 03/2025

Vertima does hereby certify that an independent assessment has been conducted on behalf of:



www.tafisa.ca

PARTICLEBOARDS TAFIPAN/TAFIPAN-EVOLO

This product meets all the necessary qualifications to be certified for the following claims:

Recycled Content

| Final product | Pre-consumer | Post-consumer |
|--|-----------------|----------------|
| Particleboards Tafipan/ Tafipan-Evolo | 51.34% - 87.96% | 0.00% - 35.18% |

Conforms to the Vertima's procedure: VERT-032008-02, Second Edition



Certificate # VERT-RC18-1085-01



Josée Lupien, LEED Fellow & WELL AP President of Vertima Inc. www.vertima.ca

PRODUCT CERTIFICATE

Valid from: 03/2022 to 03/2025

Vertima does hereby certify that an independent assessment has been conducted on behalf of:



www.tafisa.ca

DECORATIVE PANELS (TFL) TAFIPAN/ TAFIPAN-EVOLO

This product meets all the necessary qualifications to be certified for the following claims:

Recycled Content

| Final product | Pre-consumer | Post-consumer |
|--|-----------------|----------------|
| Decorative panels (TFL) Tafi- pan/Tafipan-Evolo | 51.06% - 86.75% | 0.00% - 34.70% |

Conforms to the Vertima's procedure: VERT-032008-02, Second Edition



Certificate # VERT-RC18-1085-01



Josée Lupien, LEED Fellow & WELL AP President of Vertima Inc. www.vertima.ca

PRODUCT CERTIFICATE

Valid from: 03/2022 to 03/2025

Vertima does hereby certify that an independent assessment has been conducted on behalf of:



LUMMIA

This product meets all the necessary qualifications to be certified for the following claims:

Recycled Content

| Final product | Pre-consumer | Post-consumer |
|---------------|-----------------|----------------|
| Lummia | 49.21% - 82.01% | 0.00% - 32.81% |

Conforms to the Vertima's procedure: VERT-032008-02, Second Edition



Certificate # VERT-RC18-1083-01



Josée Lupien, LEED Fellow & WELL AP President of Vertima Inc. www.vertima.ca



Particleboards and Decorative Panels (TFL)



Tafisa Canada Inc.

ENVIRONMENTAL PRODUCT DECLARATION

ISO 14025:2006

Tafisa Canada Inc. is pleased to present this environmental product declaration (EPD) for their Particleboards and Decorative Panels (TFL). This EPD was developed in compliance with ISO 14025 and has been verified by Jean-François Ménard, (CIRAIG). The LCA and the EPD were prepared by Vertima Inc. The EPD includes cradle-to-gate life cycle assessment (LCA) results.

For more information about Tafisa Canada Inc., visit <u>www.tafisa.ca/en</u> For any explanatory material regarding this EPD,

For any explanatory material regarding this EPD please contact the program operator.



CSA Group Registered Based on ISO 14025 and Other Requirements For more information visit csaregistries.ca/epd

> #1491-5377 Mar 2022 - 2027

1 GENERAL INFORMATION

| PCR GENERAL INFORMATION | | | | | |
|---|--|----------------|-----------------------------------|--|--|
| Reference PCR | ULE General Program Instructions v2.3 February 2018 PCR for Building-Related Products and Services in Part A: Life Cycle Assessment Calculation Rules and Report Requirements, Version 3.2 and Part B: Structural and Architectural Wood Products EPD Requirements, Version 1.0. (UL Environment, December 2018 to December 2023). | | | | |
| The PCR review was conducted by: | Dr. Thomas Gloria (Chair) Industrial Ecology Consultants Dr. Indro Ganguly University of Washington University of Georgia | | | | |
| EPD GENERAL INFORMATION | | | | | |
| Program Operator | CSA Group 178 Rexdale Blvd, Toronto <u>www.csagroup.org</u> | o, Ontario, | Canada M9W 1R3 | | |
| Declared Products | Particleboards and Decorative Panels (TFL) | | | | |
| EPD Registration Number 1491-5377 | EPD Date of Issue 2022/03 | 9 | | eriod of Validity ¹ //03 - 2027/03 | |
| EPD Recipient Organization | Tafisa Canada Inc. 4660 rue Villeneuve, Lac- Quebec, JG6B 2C3 Canad www.tafisa.ca/en | | <u>]</u> [T / | AFISA ° | |
| EPD Type/Scope and | | | Year of Reported N | Anufacturer Primary Data | |
| Product specific type III, cradle-to-gate EPI cleboards and Decorative p | | of Parti- | | 2019 | |
| LCA Software Open LCA v.1.10.3 | LCI DatabasesLCIA Methodologyecoinvent 3.7, US LCITRACI 2.1- IPCC 2013 | | | | |
| This LCA and EPD were prepared by: | | Fore: Verti | | Essoua Ph.D., Eng. | |
| This EPD and LCA were independently verified in accordance with ISO 14025:2006, ISO14044:2006, ISO 14044:2006 as well as the UL Environment "Part A: Life Cycle Assessment Calculation Rules and Report Requirements" v3.2 (December 2018), which is based on ISO 21930:2017 and CEN Standard EN 15804 (2012), PCR, Part B: Structural and Architectural Wood Products EPD Requirements, Version 1.0, serves as the core PCR. | | | en · Founsois -François Ménard | Ménard | |

 1. An EPD should provide current information, and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication with a program operator.







LIMITATIONS

This declaration is an environmental product declaration in accordance with ISO 14025 that describes environmental characteristics of the described product and provides transparency and disclosure of environmental impacts [1]. This EPD does not guarantee that any performance benchmarks, including environmental performance benchmarks, are met.

Environmental declarations within the same product category but from different programs may not be comparable. Only EPDs prepared from cradle-to-grave life cycle results and based on the same function, reference service life (RSL), and quantified by the same functional unit can be used to assist purchasers and users in making informed comparisons between products. EPDs based on cradle-to-gate information modules shall not be used for comparisons unless using a functional unit and complying with all of the requirements set out in ISO 14025, Section 6.7.2. EPDs based on a declared unit shall not be used for comparisons.









2. PRODUCT SYSTEM DESCRIPTION

Tafisa[®] has firmly established itself as an industry leader. Tafisa[®] conforms to the most stringent environmental standards and is an industry leader in recycling and sustainable development. 100% of wood fibers used by Tafisa[®] in its panel manufacturing process come from pre-consumer and post-consumer wood material. Tafisa[®] is certified Forest Stewardship Council MIX (FSC[®] MIX) by Rainforest Alliance, for its chain of custody and controlled timber and an Eco-Certified Composite[™] (ECC) by the Composite Panel Association (CPA).

2.1. PRODUCT DESCRIPTION

The products analyzed in this report are Particleboard (PB) and Decorative Panels (TFL). Tafisa® particle board panels are manufactured using 21% recycled wood materials, meticulously selected to create high-quality, consistent panels for furniture, millwork, cabinetry, and countertops. Tafisa® offers two types of particleboard panels: TAFIPAN® and TAFIPAN-EVOLOTM. TAFIPAN is certified EPA TSCA Title VI-compliant with formaldehyde emissions below 0.09 ppm, while TAFIPAN-EVOLOTM is certified Ultra Low Emitting Formaldehyde (ULEF) by the California Air Resources Board (CARB), with formaldehyde emissions below 0.05 ppm.

They are different grades of Tafisa particleboard (Evolo, M2, P2, MF, LD, M3, MS). They cover a range of densities, with an average of 705.19 kg/m³ and 693.05 kg/m³ and thicknesses with an average of 19.32 mm and 18.05 mm. They are manufactured in various dimensions (width x length) between 4'x8' and 5'x12'. Tafisa particleboard is used for the production of furniture, millwork, cabinetry, and countertops. Tafisa[®] Canada's decorative panels (TFL) use particleboard as substrate. To obtain TFL panels, particleboard surfaces are covered with Tafisa decorative paper layer. Decorative paper is a melamine resin impregnated paper manufactured by different suppliers. TFL panels are available in more than 122 standard colour and texture combinations. As a result, the product range is one of the most comprehensive product lines in the industry.

Figure 1 shows the room scene of Tafisa® particleboard panels. The primary United Nations Standard Products and Services Code (UNSPSC) code for these Tafisa panels is 11122002 and the Construction Specifications Institute (CSI) code is 06 42 00.









Figure 1: Room scene of Tafisa® particleboard panels.

2.1.1. Product specification

Tafisa respects the following standards for each of their products analyzed in this study:

- ANSI A208.1-2016, American National Standard for Particleboard
- CAN/ULC S102- 10 Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies.
- CAN/CSA 0160-16, Formaldehyde Emissions Standard for Composite Wood Products.
- EPA TSCA Title VI, Formaldehyde Emissions Standards for Composite Wood Products
- ASTM E84–21 Standard Test Method for Surface Burning Characteristics of Building Materials.
- BIFMA HCF 8.1-2019, Health Care Furniture Design Guidelines for Cleanability.
- JIS Z 2801: 2012, Antimicrobial Activity of Hard Non-Porous Surfaces.
- CARB ATCM 93120, Airborne Toxic Control Measure for Formaldehyde Emissions from Composite Wood Products.
- NEMA Ld-3 2005, High-Pressure Decorative Laminates (HPDL).
- EN 438-2, High-Pressure Decorative Laminates (HPL) Part 2: Determination of properties.

2.1.2. Technical requirements

Table 1 presents the technical requirements for the products under study. For specific properties and performancedata concerning Tafisa particleboards and decorative panels, please consult the following link:https://tafisa.ca/sites/default/files/2021-07/Brochure_Tafisa_2021-2022_0.pdf







Table 1: Technical data for products under study.

| ltems | Units | Particleboards | Decorative Panels |
|-------------------|-------------------|----------------|-------------------|
| Average Thickness | mm | 19.32 | 18.05 |
| Average Width | mm | 1,397.00 | 1,397.00 |
| Average Density | kg/m ³ | 705.19 | 693.05 |

2.2. MATERIAL COMPOSITION

The weighted average profile of each m^3 of particleboard and TFL panel manufacturing is calculated based on 2019 annual production data. These represent the inputs to produce 1 m^3 including press losses and faulty panels used as packaging. A summary of the values compiled are presented in **Table 2**.

| Materials | Particleb | oards | Decorative Panels | | |
|------------------------------|-------------|-----------|-------------------|-----------|--|
| Materials | Amount (kg) | Ratio (%) | Amount (kg) | Ratio (%) | |
| Wood | 6.17E+02 | 87.43% | 5.96E+02 | 86.02% | |
| Adhesive | 6.80E+01 | 9.64% | 6.64E+01 | 9.59% | |
| Catalyst | 4.02E+00 | 0.57% | 3.88E+00 | 0.56% | |
| Water | 1.40E+01 | 1.98% | 1.45E+01 | 2.09% | |
| Wax | 2.66E+00 | 0.38% | 2.45E+00 | 0.35% | |
| Impregnated Decorative Paper | 0.00E+00 | 0.00% | 9.65E+00 | 1.39% | |

Table 2: Materials composition of one m³ of Particleboards and Decorative Panels.

2.3. PRODUCT APPLICATION

Tafisa particleboard is used for furniture, millwork, cabinetry, and countertop manufacturing. Decorative panels are ideal for furniture, bathroom, and kitchen furnishings, doors of all kinds, storage systems, wall/ceiling cladding, and more. Tafisa particleboard is also designed for use in residential and commercial furniture and recommended for vertical and horizontal applications with moderate impact and moderate use.

2.4. MANUFACTURING

Manufacturing Tafisa panels is a nine-step process: material wood crushing, drying, blending, mat forming, pressing and curing, finishing (cooling, trimming and sanding), packaging or lamination, and packaging for TFL product. **Figure 2** presents the flow diagram of Tafisa panels.







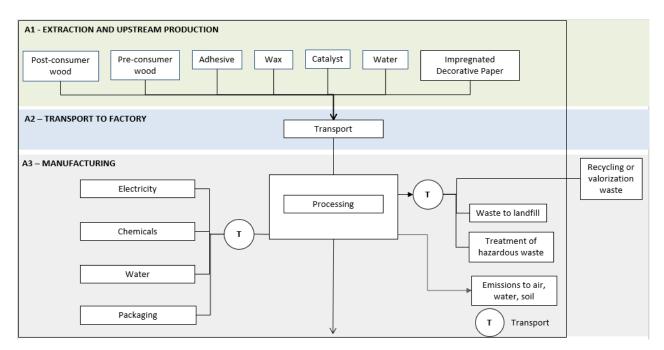


Figure 2: Production process flow diagram for Tafisa panels.







3. LCA CALCULATION RULES

3.1. DECLARED UNIT

The selected declared unit (DU) for this study according to the UL PCR [2] is 1 m^3 of Tafisa panel. **Table 3** presents all products targeted by this report and their respective DU.

Table 3: Declared Unit of panels under study.

| ltems | Units | Particleboards | Decorative Panels |
|--------------------------------------|-------------------|----------------|-------------------|
| Declared Unit | m ³ | 1 | 1 |
| Average Mass | kg | 7.05E+02 | 6.93E+02 |
| Average Thickness | mm | 19.32 | 18.05 |
| Average Density | kg/m ³ | 7.05E+02 | 6.93E+02 |
| Moisture Content (based on dry mass) | % | 4-6 | 4-6 |

3.2. SYSTEM BOUNDARIES

According to UL Environment's PCR **[3]**, the system boundaries are cradle-to-gate. The life cycle stage included in the analysis is the production stage, which includes A1) Extraction and upstream production, A2) Raw materials transportation to the manufacturing plant and A3) Manufacturing of Tafisa panels.

Table 4 presents the product life cycle stage and its modules included in the system boundaries analyzed in accordance with ISO 21930 [4].

Table 4: Description of the system boundary life cycle stages and related information modules

| PROE S ⁻ | DUCTI TAGE | | CONS TION PI STA | ROCESS | | | | USE ST. | AGE | | | EN | D-OF-L | IFE STA | GE |
|------------------------------------|---------------|---------------|-----------------------------|---------------------------|-----|-------------|--------|-------------|---------------|------------------------|-----------------------|----------------|-----------|------------------|----------|
| A1 | A2 | A3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 |
| Extraction and upstream production | Transport | Manufacturing | Transport from gate to site | Assembly/ Installation | Use | Maintenance | Repair | Replacement | Refurbishment | Operational Energy Use | Operational Water Use | Deconstruction | Transport | Waste Processing | Disposal |
| × | × | × | DNM | DNM | MND | MND | MND | MND | MND | DNM | DNM | MND | MND | MND | MND |

Key: X = included; MND = module not declared (excluded)





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3.3. ALLOCATION REFERENCE SERVICE LIFE AND ESTIMATED BUILDING SERVICE LIFE

Not applicable as this EPD does not include the use stage in the life cycle of Tafisa panels.

For information purposes, according to the part A of the PCR, the estimated service life (ESL) of the building is assumed to be 75 years. Tafisa panels have no reference service life (RSL). Based on the ISO 21930, section 7.1.4 [4], it can be assumed that RSL of Tafisa panels correspond to the ESL of the building [3].

3.4. ALLOCATION

The ISO 14040 allocation procedure states that, whenever possible, allocation should be avoided by collecting data related to the process under study or by expanding the product system [5].

According to the PCR Part B and section 3.5 allocation rules, mass should be used as the primary basis co-product allocation, and UL PCR Part A specifies only when the difference in revenue from the co-products is low. Based on information provided by the manufacturer, the difference in market value (\$) between both co-products is higher (more than 25%). In this study, economic allocation was used for input and output flows. Allocation was performed on the basis of the yearly production volume of each co-product under study. Data relative to material and energy consumption were provided for the whole site and for all Tafisa Canada co-products.

3.5. CUT-OFF METHODOLOGY

According to the UL Environment PCR – Part A [3], if a mass flow or energy flow represents less than 1% of the cumulative mass or energy flow of the system, it may be excluded from the system boundaries. However, these flows should not have a relevant environmental impact. In addition, at least 95% of the energy usage and mass flow must be included. Cumulative material inputs and environmental impacts less than 5% of the total weight of the DU are excluded.

| Data Quality Parameter | Data Quality Discussion | | | | |
|--|---|--|--|--|--|
| Source of Manufacturing Data: | Manufacturing data was collected from Tafisa's manufacturing plant located at 4660 Rue Villeneuve, Lac-Mégantic, in the province of Quebec, Canada, for the 2019 production year. This data included: the total production mass of products produced at the manufacturing plant, as well as the total annual units in m3 and total production | | | | |
| Description sources of data | mass of products under study; raw materials entering the production of the products under study; materials losses; transport mode and distance of materials; energy consumption; water consumption; emissions to the environment at the manufacturing plant; waste treatment; and packaging material. | | | | |
| Source of Secondary Data: Description sources of raw | When appropriate, the grid mix was changed for the grid mix of the province or country where production takes places. Otherwise, ecoinvent data | | | | |
| materials, energy source, transport, waste and packaging | representative of the global market or "rest-of-the-world" were selected as | | | | |
| data | proxies. Wood extraction data and transport data were taken form the US LCI database, which is specific to a North American context. | | | | |

3.6. DATA SOURCES AND QUALITY REQUIREMENTS







| Data Quality Parameter | Data Quality Discussion | | | | |
|-------------------------------------|--|--|--|--|--|
| Geographical Representativeness | Tafisa's manufacturing facility is located in the province of Quebec, Canada; hence, electricity consumption is based on the hydropower grid mix. Geographical correlation of the material supply and the selected datasets are representative of each specific area or a larger area (for example, wood material comes mainly from Canada and a low percentage from the USA). | | | | |
| Temporal Representativeness | Primary data was collected to be representative of the full year 2019, although this was not always the case for ecoinvent and US LCI datasets. Nevertheless, ecoinvent and US LCI remain the reference LCI databases. | | | | |
| Technological Representativeness | Primary data obtained from the manufacturer is representative of the current technologies and materials used by the company. | | | | |
| Completeness | All relevant process steps were considered and modeled to satisfy the goal and scope. Cut-off criteria were respected. | | | | |







4. LIFE CYCLE ASSESSMENT RESULTS

4.1. RESULTS TABLES

It should be noted that Life Cycle Impact Assessment (LCIA) results are relative expressions and do not predict impacts on category endpoints, the exceeding of thresholds, safety margins, or risks.

The life cycle assessment results are presented per DU. According to the PCR, Part B section 5, results presented derive from the life cycle impact assessment (LCIA) and the life cycle inventory (LCI).

According to the PCR, the life cycle impact assessment must be presented for the North American context [3].

LCIA results are presented in Table 5 and Table 6 for particleboard and decorative panels, respectively.

Table 5: Particleboards Life Cycle Impact Assessment Results

| Impact Categories | Units | Extraction (A1) | Transport (A2) | Manufacturing (A3) | Total |
|---|------------------------|-----------------|----------------|--------------------|-----------|
| Global Warming Potential | kg CO ₂ eq | 2.21E+02 | 1.44E+01 | 9.86E+01 | 3.34E+02 |
| Biogenic Carbon Removal from Product System | kg CO ₂ eq. | -1.13E+03 | 0.00E+00 | -1.19E+02 | -1.25E+03 |
| Biogenic Carbon Emissions from Product System | kg CO₂ eq. | 0.00E+00 | 0.00E+00 | 1.25E+03 | 1.25E+03 |
| Ozone Depletion Potential | kg CFC-11 eq | 2.26E-05 | 5.12E-07 | 8.35E-06 | 3.14E-05 |
| Acidification Potential | kg SO ₂ eq | 1.04E+00 | 8.63E-02 | 1.26E-01 | 1.25E+00 |
| Eutrophication Potential | kg N eq | 4.31E-01 | 6.47E-03 | 8.15E-02 | 5.19E-01 |
| Smog Formation Potential | kg O₃ eq | 1.13E+01 | 2.74E+00 | 1.73E+00 | 1.58E+01 |
| Abiotic Resource Depletion Potential of Non-Renewable (Fossil) Energy Resources (ADPfossil) | MJ surplus | 3.64E+02 | 2.93E+01 | 3.32E+01 | 4.27E+02 |





| Impact categories | Units | Extraction (A1) | Transport (A2) | Manufacturing (A3) | Total |
|---|------------------------|-----------------|----------------|--------------------|-----------|
| Global Warming Potential | kg CO ₂ eq | 2.55E+02 | 1.46E+01 | 1.94E+02 | 4.63E+02 |
| Biogenic Carbon Removal from Product System | kg CO ₂ eq. | -1.17E+03 | 0.00E+00 | -2.20E+02 | -1.38E+03 |
| Biogenic Carbon Emissions from Product System | kg CO₂ eq. | 0.00E+00 | 0.00E+00 | 1.38E+03 | 1.38E+03 |
| Ozone Depletion Potential | kg CFC-11 eq | 2.84E-05 | 5.19E-07 | 1.64E-05 | 4.53E-05 |
| Acidification Potential | kg SO ₂ eq | 1.23E+00 | 8.75E-02 | 2.57E-01 | 1.57E+00 |
| Eutrophication Potential | kg N eq | 5.41E-01 | 6.55E-03 | 1.64E-01 | 7.11E-01 |
| Smog Formation Potential | kg O₃ eq | 1.32E+01 | 2.78E+00 | 3.43E+00 | 1.94E+01 |
| Abiotic Resource Depletion Potential of Non-Renewable (Fossil) Energy Resources (ADPfossil) | MJ surplus | 4.43E+02 | 2.97E+01 | 6.98E+01 | 5.42E+02 |

Table 6: Decorative panels (TFL) Life Cycle Impact Assessment Results

(1): Calculated as per U.S EPA TRACI 2.1, OpenLCA v 1.10.3

(2): GWP 100 excludes biogenic CO_2 removals and emissions associated with biobased products and packaging; 100year time horizon GWP factors are provided by the IPCC 2013 Fifth Assessment Report (AR5).





4.2. LIFE CYCLE INVENTORY RESULTS

According to the PCR, the life cycle inventory (LCI) must be presented for the "resources used" and "output flows and waste" categories [3]. The environmental parameters use for the inventory analysis describes the use of renewable and non-renewable material resources, renewable and non-renewable primary energy, and water. The LCI results are presented in **Table 7** and **Table 8** for particleboards and decorative panels, respectively.

| | Resource use | | | | | | | |
|-----------------------------------|--------------|-----------------|---------------------|--------------------|----------|--|--|--|
| Parameters | Units | | - Total | | | | | |
| Farameters | Offics | Extraction (A1) | Transport (A2) | Manufacturing (A3) | TOLAI | | | |
| $RPR_{E}^{(3)}$ | MJ, LHV | 5.00E+03 | 9.95E-02 | 6.79E+02 | 5.68E+03 | | | |
| RPR _M ^{(4)*} | MJ, LHV | 6.83E+03 | N/A | N/A | 6.83E+03 | | | |
| NRPR _E ⁽⁵⁾ | MJ, LHV | 1.59E+03 | 2.10E+02 | 2.84E+02 | 2.09E+03 | | | |
| NRPR _M ^{(6)*} | MJ, LHV | 1.92E+03 | N/A | N/A | 1.92E+03 | | | |
| SM ⁽⁷⁾ | kg | 1.68E+02 | N/A | N/A | 1.68E+02 | | | |
| RSF ⁽⁸⁾ | MJ, LHV | N/A | N/A | 0.00E+00 | 0.00E+00 | | | |
| NRSF ⁽⁹⁾ | MJ, LHV | N/A | N/A | 0.00E+00 | 0.00E+00 | | | |
| RE ⁽¹⁰⁾ | MJ, LHV | N/A | N/A | 0.00E+00 | 0.00E+00 | | | |
| FW ⁽¹¹⁾ | m³ | N/A | N/A | 1.31E-01 | 1.31E-01 | | | |
| | | Out | put Flows and Waste | | | | | |
| HWD ⁽¹²⁾ | kg | N/A | N/A | 4.92E-02 | 4.92E-02 | | | |
| NHWD ⁽¹³⁾ | kg | N/A | N/A | 9.46E+00 | 9.46E+00 | | | |
| HLRW ⁽¹⁴⁾ | m³ | N/A | N/A | N/A | N/A | | | |
| ILLRW ⁽¹⁵⁾ | m³ | N/A | N/A | N/A | N/A | | | |
| CRU ⁽¹⁶⁾ | kg | N/A | N/A | N/A | N/A | | | |
| MR ⁽¹⁶⁾ | kg | N/A | N/A | 3.24E+00 | 3.24E+00 | | | |
| MER ⁽¹⁶⁾ | kg | N/A | N/A | 5.66E+01 | 5.66E+01 | | | |
| EE ⁽¹⁶⁾ | MJ, LHV | N/A | N/A | 3.88E+01 | 3.88E+01 | | | |

Table 7: Particleboards Life Cycle Inventory Results





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| | | | Resource Use | | | |
|-----------------------------------|---------|-----------------|---------------------|--------------------|----------|--|
| Parameters | Units | | - Total | | | |
| Farameters | UTIILS | Extraction (A1) | Transport (A2) | Manufacturing (A3) | Total | |
| RPR _E ⁽³⁾ | MJ, LHV | 4.52E+03 | 1.01E-01 | 1.03E+03 | 5.55E+03 | |
| RPR _M ^{(4)*} | MJ, LHV | 6.48E+03 | N/A | N/A | 6.48E+03 | |
| NRPR ⁽⁵⁾ | MJ, LHV | 2.27E+03 | 2.13E+02 | 6.00E+02 | 3.08E+03 | |
| NRPR _M ^{(6)*} | MJ, LHV | 1.87E+03 | N/A | N/A | 1.87E+03 | |
| SM ⁽⁷⁾ | kg | 1.67E+02 | N/A | N/A | 1.67E+02 | |
| RSF ⁽⁸⁾ | MJ, LHV | N/A | N/A | 0.00E+00 | 0.00E+00 | |
| NRSF ⁽⁹⁾ | MJ, LHV | N/A | N/A | 0.00E+00 | 0.00E+00 | |
| RE ⁽¹⁰⁾ | MJ, LHV | N/A | N/A | 0.00E+00 | 0.00E+00 | |
| FW ⁽¹¹⁾ | m³ | N/A | N/A | 2.41E-01 | 2.41E-01 | |
| | | Out | put Flows and Waste | | | |
| HWD ⁽¹²⁾ | kg | N/A | N/A | 9.52E-02 | 9.52E-02 | |
| NHWD ⁽¹³⁾ | kg | N/A | N/A | 9.46E+00 | 9.46E+00 | |
| HLRW ⁽¹⁴⁾ | m³ | N/A | N/A | N/A | N/A | |
| ILLRW ⁽¹⁵⁾ | m³ | N/A | N/A | N/A | N/A | |
| CRU ⁽¹⁶⁾ | kg | N/A | N/A | N/A | N/A | |
| MR ⁽¹⁶⁾ | kg | N/A | N/A | 6.27E+00 | 6.27E+00 | |
| MER ⁽¹⁶⁾ | kg | N/A | N/A | 1.09E+02 | 1.09E+02 | |
| EE ⁽¹⁶⁾ | MJ, LHV | N/A | N/A | 7.49E+01 | 7.49E+01 | |

Table 8: Decorative Panels Life Cycle Inventory Results

*In the calculation of RPR_M and NRPR_M, packaging materials were excluded.

(3): RPR_E = RPRT - RPR_M, where RPRT is equal to the value for renewable energy obtained using the CED LHV.

- (4): RPR_M is calculated by multiplying the mass (kg) of the material input (or its components) by the net calorific value (lower heating value) (MJ/kg) of this input as per ACLCA ISO 21930 Guidance [4]. In the calculation of RPR_M, packaging materials were excluded.
- (5): NRPR_E = NRPRT NRPR_M, where NRPRT is equal to the value for non-renewable energy obtained using the CED LHV methodology (both non-renewable energy fossil fuel and nuclear).
- (6): NRPR_M is calculated by multiplying the mass (kg) of the material input (or its components) by the net calorific value (lower heating value) (MJ/kg) of this input as per ACLCA ISO 21930 Guidance [4]. In the calculation of NRPR_M, packaging materials were excluded.

(7): Calculated as per ACLCA ISO 21930 Guidance [4], 6.5 Secondary material (SM): There is SM involved in Tafisa panels.

- (8): Calculated as per ACLCA ISO 21930 Guidance [4], 6.6 Renewable secondary fuels (RSF): There is no RSF involved in the Tafisa panel manufacturing process.
- (9): Calculated as per ACLCA ISO 21930 Guidance [4], 6.7 Non-renewable secondary fuels (NRSF): There is no NRSF involved in the Tafisa panel manufacturing process.

(10): Calculated as per ACLCA ISO 21930 Guidance [4], 6.8.1 Recovery Energy (RE): There is no RE involved in the Tafisa panel manufacturing process

(11): Represents the net use of fresh water at the manufacturing site.

(12): Calculated from life cycle inventory results, based on datasets marked as "hazardous."

(13): Calculated from life cycle inventory results, based on "non-hazardous" waste.

(14): Calculated as per ACLCA ISO 21930 Guidance [4], 10.3 High-level radioactive waste (HLRW), conditioned, to final repository. It should be noted that the Tafisa panel manufacturing process does not generate any HLRW. High-level radioactive waste, e.g., when generated by electricity production, consists mostly of spent fuel from reactors. (ISO 21930:2017, clause 7.2.14).





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- (15): Calculated as per ACLCA ISO 21930 Guidance [4], 10.4 Intermediate- and low-level radioactive waste (ILLRW), conditioned, to final repository. It should be noted that the Tafisa panel manufacturing process does not generate any ILLRW. Low- and intermediate-level radioactive wastes, e.g., when generated by electricity production, arise mainly from routine facility maintenance and operations (ISO 21930:2017, clause 7.2.14).
- (16): Materials for recycling (MR), materials for energy recovery (MER) and exported energy (EE) are applicable for this project, except Reused components (CRU).

4.3. CONTRIBUTION ANALYSIS

The aim of this section is to present more details on the contribution to the impacts and resource use of the different life cycle modules of each panel product studied.

The contribution analysis of the Tafisa particleboards (**Figure 3**) indicates that the major contributor module is module A1 for all impact categories. The impacts are between 66% et 85%. The impacts of the manufacturing module (A3) represent the second contributor to the total impacts for all impact categories except for the smog formation potential impact category. The major contribution of module A2 is present in the smog formation impact category (17%) due to diesel combustion during truck operations.

Breaking down the extraction and upstream production module (A1), the production of MUF adhesive is the major contributor with impacts between 77% and 92% of the total impact categories for all indicators.

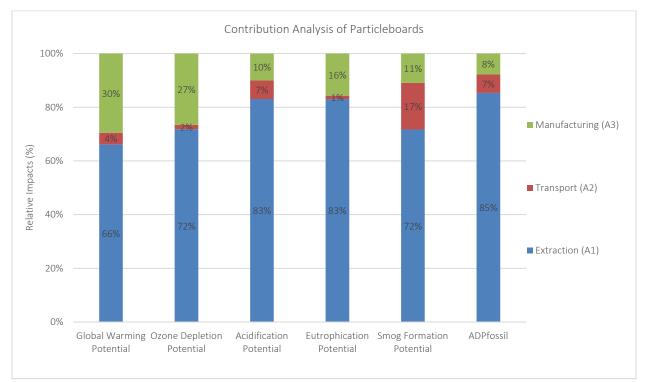


Figure 3: Contribution of each life cycle module for Tafisa Particleboards.

As presented for the particleboard product, the trend is pretty conservative for decorative panels as presented in Figure 4. This is because the products studied have similar inputs and outputs. The difference comes from the fact that the decorative panels have impregnated decorative paper applied on their surfaces. The impacts of the extraction and upstream production modules (A1) represent between 55% and 82% of the total impacts for all indicators. The impacts of the manufacturing module (A3) represent the second contributor to the total impacts, for all indicators.





The major contribution of module A2 is present in the smog formation impact category (14%) due to diesel combustion during truck operations.

The analysis of the extraction and upstream production module (A1) shows that the production of MUF adhesive is the major contributor with impacts between 63% and 76% of the total impact categories for all indicator, followed by impregnated decorative paper production with impacts between 15% and 22%.

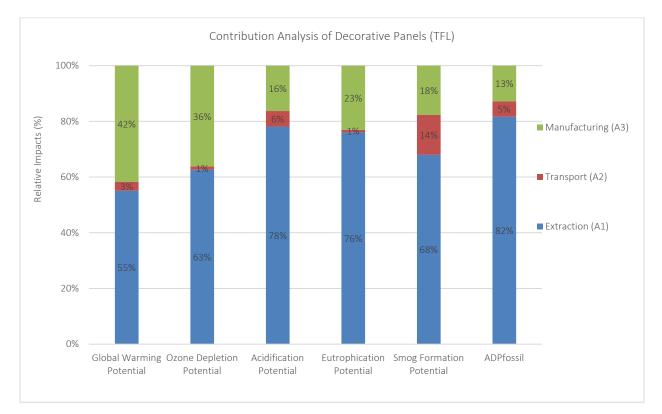


Figure 4: Contribution of each life cycle module for Tafisa Decorative Panels.





5. ADDITIONAL ENVIRONMENTAL INFORMATION

In addition, Tafisa Canada is part of a third-party verification process with Vertima Inc. where their products and environmental documents are assessed. At the end of the process, they received a Validated Eco-Declaration[®] (EDS-Environmental Data Sheet) summarizing verified environmental claims.

Tafisa also has a Health Product Declaration (HPD) for its particleboard and decorative panel products.

5.1. CARBON SEQUESTRATION

The amount of biogenic carbon contained within bio-based material leaving the product system must be declared as technical scenario information in the module where the material is leaving the product system. **Table 9** presents the biogenic carbon content in the product at the manufacturing gate.

| Modules | Deremetere | Particleboards | Decorative Panels | Units | |
|---------|---|----------------|--------------------------|------------|--|
| wodules | Parameters | Values | Values | Units | |
| A1 | Biogenic Carbon Removal from Product | -1132.26 | -1165.21 | kg CO2 eq. | |
| | Biogenic Carbon Emission from Product (as exported product out to the system boundaries) | 1132.26 | 1165.21 | kg CO2 eq. | |
| | Biogenic Carbon Removal from Packaging | -15.34 | -19.31 | kg CO2 eq. | |
| | Biogenic Carbon Emission from Packaging | 15.34 | 19.31 | kg CO2 eq. | |
| A3 | Biogenic Carbon Removal from Combustion of Waste from Renewable Sources Used in Production Processes | -103.69 | -200.43 | kg CO2 eq. | |
| | Biogenic Carbon Emission from Combustion of Waste from Renewable Sources Used in Production Processes | 103.69 | 200.43 | kg CO2 eq. | |

Table 9: Biogenic carbon content in one m³ of Tafisa panels at manufacturing gate.





6.REFERENCES

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