



# 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.

MATERIALS AND RESOURCES		PRODUCT CONTRIBUTIONS	
MR	<b>Building Product Disclosure and Optimization – Environmental Product Declaration (EPD)</b> <b>Option 1: Environmental Product Declaration (1 point)</b> The product contributes to this credit due to the availability of a product specific EPD (Type III) and are valued as 1 whole product out of the 20 needed for the purposes of credit achievement.	Contribute	<b>ENVIRONMENTAL IMPACTS</b> Product-specific (EPD) Type III Compliant to ISO 14025:2006
MR	<b>Building Product Disclosure and Optimization – Sourcing of Raw Materials</b> <b>Option 2: Leadership extraction practices (1 point)</b> 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	<b>ATTRIBUTES</b> Pre-consumer: 51.34% - 87.96% Post-consumer: 0.00% - 35.18% and Certification FSC® Mix.
MR	<b>Building Product Disclosure and Optimization – Material Ingredients</b> <b>Option 1: Material ingredients reporting (1 point)</b> 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	<b>INGREDIENTS AND EMISSIONS</b> HPD® version 2.2 Health Product Declaration®
INDOOR ENVIRONMENTAL QUALITY		PRODUCT CONTRIBUTIONS	
EQ	<b>Low-Emitting Materials</b> <b>Option 1: Product category calculation (1-3 points)</b> Number of points is dependent on the LEED® rating system and the number of compliant categories.	Contribute	<b>INGREDIENTS AND EMISSIONS</b> (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.

Validated Eco-Declaration:

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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	
<b>MR Prerequisite</b>	<b>Certified Tropical Wood</b>	<b>Contribute</b>	<b>ATTRIBUTES</b> Tafipan / Tafipan-Evolo contains no tropical essences.
<b>MR</b>	<b>Environmentally Preferable Products</b> Maximum of 4 points depending on both options in the context of each project <b>Option 2: Environmentally Preferable Products</b> 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)	<b>Contribute</b>	<b>ATTRIBUTES</b> Pre-consumer: 51.34% - 87.96% Post-consumer: 0.00% - 35.18% and Certification FSC® Mix.

INDOOR ENVIRONMENTAL QUALITY		PRODUCT CONTRIBUTIONS	
<b>EQ</b>	<b>Low-Emitting Products (0.5-3 points)</b> At least 90% of a component must meet the requirements to earn credit.	<b>Contribute</b>	<b>INGREDIENTS AND EMISSIONS</b> (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.

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## 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

PRODUCT SPECIFICATIONS	ENVIRONMENTAL IMPACTS	TECHNICAL PERFORMANCES
<b>References</b> Decorative panels (TFL)	<b>Life Cycle Assessment</b> March 2022	<b>Performance tests</b> 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
<b>Final manufacturing location</b> 4660, Villeneuve Street, Lac-Mégantic, (Quebec) G6B 2C3, CANADA	<b>Reference service life</b> -	<b>MANUFACTURER'S ENVIRONMENTAL MANAGEMENT</b>  Certification ISO 14001-2015: CERT 55149-1-02 Certification ISO 9001-2015: CERT 55148-1-02 Certification ISO 45001-2018: CERT 55150-1-02
<b>Composition</b> Wood particules, adhesive, water, catalyst, wax and impregnated decorative paper.	<b>Product's carbon footprint</b> -	
<b>ATTRIBUTES</b>  <b>Recycled content</b> Pre-consumer: 51.06% - 86.75% Post-consumer: 0.00% - 34.70%	<b>Environmental Product Declaration</b> Product-specific (EPD) Type III ISO 14025:2006 March 2022 - March 2027	<b>Extended Product Responsibility</b> - (Take Back Program)
	<b>INGREDIENTS AND EMISSIONS</b>  <b>Declaration of chemical ingredients</b> 1 000 ppm	<b>Type of declaration</b> HPD® version 2.2 Health Product Declaration® March 2022 to March 2025
<b>Sourcing of raw materials</b> Data collection from suppliers has been conducted for the products components aligned with each specific environmental analysis.	<b>Emissions test</b> -	<b>CERTIFICATION(S) &amp; CONFORMITIES</b>  
<b>Certified Wood</b> FSC® Certification: NC-COC-003089 FSC® Certification: NC-CW-003089	<b>VOC*</b> -	
<b>Rapidly renewable materials</b> -	<b>Formaldehyde</b> <0.09 ppm for Tafipan substrat. <0.04 ppm for Tafipan-Evolò substrat.	<b>Others</b> Substrat Tafipan/Tafipan-Evolò are compliant with EPA TSCA Title VI. Substrat Tafipan/Tafipan-Evolò are compliant with CAN/CSA 0160-16. Substrat Tafipan-Evolò is compliant with CARB Phase 2 ULEF according to CARB 93120 - ATCM.
<b>Biobased materials</b> -		

\*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.

4660, Villeneuve Street, Lac-Mégantic, (Quebec) G6B 2C3 CANADA  
[www.tafisa.ca](http://www.tafisa.ca)

Master Format: **06 42 00**  
Validated Eco-Declaration: **VED20-1093-02**  
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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.

MATERIALS AND RESOURCES		PRODUCT CONTRIBUTIONS	
MR	<b>Building Product Disclosure and Optimization – Environmental Product Declaration (EPD)</b> <b>Option 1: Environmental Product Declaration (1 point)</b> The product contributes to this credit due to the availability of a product specific EPD (Type III) and are valued as 1 whole product out of the 20 needed for the purposes of credit achievement.	Contribute	<b>ENVIRONMENTAL IMPACTS</b> Product-specific (EPD) Type III Compliant to ISO 14025:2006
MR	<b>Building Product Disclosure and Optimization – Sourcing of Raw Materials</b> <b>Option 2: Leadership extraction practices (1 point)</b> 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	<b>ATTRIBUTES</b> Pre-consumer: 51.06% - 86.75% Post-consumer: 0.00% - 34.70% and Certification FSC® Mix.
MR	<b>Building Product Disclosure and Optimization – Material Ingredients</b> <b>Option 1: Material ingredients reporting (1 point)</b> 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	<b>INGREDIENTS AND EMISSIONS</b> HPD® version 2.2 Health Product Declaration®
INDOOR ENVIRONMENTAL QUALITY		PRODUCT CONTRIBUTIONS	
EQ	<b>Low-Emitting Materials</b> <b>Option 1: Product category calculation (1-3 points)</b> Number of points is dependent on the LEED® rating system and the number of compliant categories.	Contribute	<b>INGREDIENTS AND EMISSIONS</b> (Composite wood) Substrat Tafipan-Evolu 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.

MATERIALS AND RESOURCES		PRODUCT CONTRIBUTIONS	
MR Prerequisite	<b>Certified Tropical Wood</b>	Contribute	<b>ATTRIBUTES</b> Substrat Tafipan / Tafipan-Evolo contains no tropical essences.
MR	<b>Environmentally Preferable Products</b> Maximum of 4 points depending on both options in the context of each project <b>Option 2: Environmentally Preferable Products</b> 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	<b>ATTRIBUTES</b> Pre-consumer: 51.06% - 86.75% Post-consumer: 0.00% - 34.70% and Certification FSC® Mix.
INDOOR ENVIRONMENTAL QUALITY		PRODUCT CONTRIBUTIONS	
EQ	<b>Low-Emitting Products (0.5-3 points)</b> At least 90% of a component must meet the requirements to earn credit.	Contribute	<b>INGREDIENTS AND EMISSIONS</b> (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.

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# ENVIRONMENTAL DATA SHEET

SURFORMA®



## 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		PRODUCT CONTRIBUTIONS	
MR	<b>Building Product Disclosure and Optimization – Environmental Product Declaration (EPD)</b> <b>Option 1: Environmental Product Declaration (1 point)</b> The product contributes to this credit due to the availability of an industry-wide Type III EPD and are valued as 1 whole product out of the 20 needed for the purposes of credit achievement.	Contribute	<b>ENVIRONMENTAL IMPACTS</b> Industry-wide Type III EPD compliant to ISO 14025:2006
MR	<b>Building Product Disclosure and Optimization – Sourcing of Raw Materials</b> <b>Option 2: Leadership extraction practices (1 point)</b> 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	<b>ATTRIBUTES</b> FSC® Certification: FSC-C111655 / 2027-07-08 PEFC Certification: PEFC ST 2002:2013 / 2022-08-13
MR	<b>Building Product Disclosure and Optimization – Material Ingredients</b> <b>Option 1: Material ingredients reporting (1 point)</b> 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	<b>INGREDIENTS AND EMISSIONS</b> HPD® version 2.2 Health Product Declaration®
INDOOR ENVIRONMENTAL QUALITY		PRODUCT CONTRIBUTIONS	
EQ	<b>Low-Emitting Materials</b> <b>Option 1: Product category calculation (1-3 points)</b> 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	<b>INGREDIENTS AND EMISSIONS</b> Furniture GREENGUARD Certified

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# 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.

MATERIALS AND RESOURCES		PRODUCT CONTRIBUTIONS	
<b>MR Prerequisite</b>	<b>Certified Tropical Wood</b>	<b>Contribute</b>	<b>ATTRIBUTES</b> SURFORMA® contains no tropical essences.
<b>MR</b>	<b>Environmentally Preferable Products</b> Maximum of 4 points depending on both options in the context of each project <b>Option 2: Environmentally Preferable Products</b> 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)	<b>Contribute</b>	<b>ATTRIBUTES</b> FSC® Certification: FSC-C111655 / 2027-07-08 PEFC Certification: PEFC ST 2002:2013 / 2022-08-13

INDOOR ENVIRONMENTAL QUALITY		PRODUCT CONTRIBUTIONS	
<b>EQ</b>	<b>Low-Emitting Products (0.5-3 points)</b> At least 90% of a component must meet the requirements to earn credit.	<b>Contribute</b>	<b>INGREDIENTS AND EMISSIONS</b> 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.

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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?

- Yes
- No

PREPARER: Vertima

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2022-03-25

PUBLISHED DATE: 2022-03-25

EXPIRY DATE: 2025-03-25



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 16:00:44**

#: **25.2400 - 28.0400** GS: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Diluent**

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 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 16:00:45**

#: **0.0000 - 0.0800** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Surfactant**

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 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 16:00:46**

#: **0.0000 - 0.3900** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Surfactant**

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 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 16:00:46**

#: **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 & 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]
PHY	EU - GHS (H-Statements) Annex 6 Table 3-1	H225 - Highly flammable liquid and vapour [Flammable liquids - Category 2]
MAM	EU - GHS (H-Statements) Annex 6 Table 3-1	H331 - Toxic if inhaled [Acute toxicity (inhalation) - Category 3]
MAM	EU - GHS (H-Statements) Annex 6 Table 3-1	H301 - Toxic if swallowed [Acute toxicity (oral) - Category 3]
MAM	EU - GHS (H-Statements) Annex 6 Table 3-1	H311 - Toxic in contact with skin [Acute toxicity (dermal) - Category 3]
MAM	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 CONSIDERED: Yes MATERIAL TYPE: Other: Water

RESIDUALS AND IMPURITIES NOTES: No data collected regarding this material.

OTHER MATERIAL NOTES: Weight percentage may vary as this HPD covers multiple particleboard grades. Standard water is used (municipal).

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

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING 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	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: According to the supplier, residual and impurity are below the threshold.

**CATALYST** %: 0.5000 - 0.6000

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 vary as this HPD covers multiple particle board grade of products, Some substances fall below the reportable threshold, and are not reported in the content inventory.

**WATER**

ID: 7732-18-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING 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	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Weight percentage may vary as this HPD covers multiple particle board grades and the exact ratio is proprietary. According to the supplier, residual and impurity are below the threshold.

**AMMONIUM NITRATE**

ID: 6484-52-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-03-25 16:00:41**

#: **50.0000 - 60.0000** GS: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Catalyst**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

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 repellent. 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	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 Toxicant
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 1A or 1B]

SUBSTANCE NOTES: Substance 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: <b>Pharos Chemical and Materials Library</b>	HAZARD SCREENING DATE: <b>2022-03-25 16:00:43</b>	
%: <b>40.0000 - 50.0000</b>	GS: <b>BM-4</b> RC: <b>None</b> NANO: <b>No</b> SUBSTANCE ROLE: <b>Diluent</b>	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Substance 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: <b>Pharos Chemical and Materials Library</b>	HAZARD SCREENING DATE: <b>2022-03-25 16:00:44</b>	
%: <b>0.5000 - 3.0000</b>	GS: <b>NoGS</b> RC: <b>None</b> NANO: <b>No</b> SUBSTANCE ROLE: <b>Surfactant</b>	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Substance 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: <b>Pharos Chemical and Materials Library</b>	HAZARD SCREENING DATE: <b>2022-03-25 16:00:45</b>	
%: <b>0.5000 - 3.0000</b>	GS: <b>LT-P1</b> RC: <b>None</b> NANO: <b>No</b> SUBSTANCE ROLE: <b>Surfactant</b>	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

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

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
SKI	MAK	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 is undisclosed because it is proprietary. Weight percentage may vary as this HPD covers multiple particle board grades and the exact ratio is proprietary.

### SCAVENGER

#: 0.1000 - 0.6000

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 such tests were performed on their product.

OTHER MATERIAL NOTES: Weight percentage may vary as this HPD covers multiple particleboard grades.

### UREA

ID: 57-13-6

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**      HAZARD SCREENING DATE: **2022-03-25 16:00:42**

#: **49.0000 - 51.0000**      GS: **LT-UNK**      RC: **None**      NANO: **No**      SUBSTANCE ROLE: **Scavenger**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

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

### WATER

ID: 7732-18-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**      HAZARD SCREENING DATE: **2022-03-25 16:00:43**

#: **49.0000 - 51.0000**      GS: **BM-4**      RC: **None**      NANO: **No**      SUBSTANCE ROLE: **Diluent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

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

## Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

<b>VOC EMISSIONS</b>	<b>CDPH Standard Method V1.2 (Section 01350/CHPS) - Not Applicable</b>		
CERTIFYING PARTY: Self-declared APPLICABLE FACILITIES: TAFISA Canada inc. CERTIFICATE URL:	ISSUE DATE: 2019-06-17	EXPIRY DATE:	CERTIFIER OR LAB: TAFISA Canada inc.
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.			
<b>MULTI-ATTRIBUTE</b>	<b>CPA 4-19 Eco-Certified Composites (ECC)</b>		
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 Footprint; Locally Sourced Fiber; Recycled, Recovered or Post-Consumer Fiber Content; Sustainable Use of Wood Fiber; Responsible Wood Sourcing.			
<b>FORMALDEHYDE EMISSIONS</b>	<b>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</b>		
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 Requirements Of: 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			
<b>FORMALDEHYDE EMISSIONS</b>	<b>CARB Composite Wood ATCM CA 93120 Ultra Low-Emitting Formaldehyde (ULEF)</b>		
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 Requirements Of: CARB Composite Wood ATCM CA 93120 Ultra Low-Emitting Formaldehyde (ULEF).			
<b>SUSTAINABLE FORESTRY</b>	<b>FSC Certification - Single Chain of Custody and Controlled Wood</b>		
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 registration code NC-COC-003089, NC-CW-003089 FSC® licence code : FSC-C006416			
<b>MANAGEMENT</b>	<b>ISO 14001 Environmental management systems</b>		
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 Number: 55149-1-02			
<b>MANAGEMENT</b>	<b>ISO 9001 Quality management systems</b>		
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



**MANAGEMENT****ISO 45001 SST Management Systems**

CERTIFYING PARTY: Third Party

ISSUE DATE: 2021-06-

EXPIRY DATE: 2024-

CERTIFIER OR LAB: Bureau de

APPLICABLE FACILITIES: Tafisa Canada inc.

14

06-21

Normalisation du Québec

CERTIFICATE URL:

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-Mégantic Quebec G6B2C3, Canada  
**WEBSITE:** <https://tafisa.ca/en>

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

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

**GreenScreen (GS)**

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

**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.*



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?

- Yes
- No

PREPARER: Vertima

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2022-03-25

PUBLISHED DATE: 2022-03-25

EXPIRY DATE: 2025-03-25

## Section 2: Content in Descending Order of Quantity

This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold
- Nested Material Inventory method with individual Material-level thresholds

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.2, available on the HPDC website at: [www.hpd-collaborative.org/hpd-2-2-standard](http://www.hpd-collaborative.org/hpd-2-2-standard)

### SC:BIO:SC:BIO: BIOLOGICAL MATERIAL %: 85.1000 - 86.8000

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: No MATERIAL TYPE: Wood Dust, 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. Weight percentage may vary as this HPD covers multiple particle board grades and the exact ratio is proprietary.

#### SC:WOOD PARTICLES

ID: SC:Bio

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: Not Screened

%: 100.0000 GS: Not Screened RC: Both NANO: No SUBSTANCE ROLE: Structure component

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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Hazard Screening not performed

#### SUBSTANCE NOTES:

Version: SCBioMats/2018-02-23

Category: Tree-based materials

Identifier: Softwood

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. Particleboard is made of pre-consumer and post-consumer recycled fibers. Pre-consumer Recycled includes fiber, such as scrap, trimmings and cuttings from manufacturing and converting processes of primary wood products. Examples of this category include planer shavings, plytrim, sawdust, fines, chips and bagasse. Post-consumer recycled materials includes materials that are generated from building construction, renovation and demolition and from old wood pallet.

### UREA FORMALDEHYDE RESIN %: 8.6000 - 10.5000

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

RESIDUALS AND IMPURITIES NOTES: According to Pharos, known or potential residual for Formaldehyde compounds, Urea formaldehyde based, is formaldehyde (CAS Number: 50-00-0). 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: 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 15:40:43

%: 74.7600 - 75.9600 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 this HPD covers multiple particle board grades and the exact ratio is proprietary.		

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-03-25 15:40:47</b>		
#: <b>24.0100 - 24.0500</b>	GS: <b>BM-4</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Diluent</b>
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 this HPD covers multiple particle board grades and the exact ratio is proprietary.				

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-03-25 15:40:50</b>		
#: <b>Impurity/Residual</b>	GS: <b>BM-1</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Impurity/Residual</b>
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]		
PHY	EU - GHS (H-Statements) Annex 6 Table 3-1	H225 - Highly flammable liquid and vapour [Flammable liquids - Category 2]		
MAM	EU - GHS (H-Statements) Annex 6 Table 3-1	H331 - Toxic if inhaled [Acute toxicity (inhalation) - Category 3]		
MAM	EU - GHS (H-Statements) Annex 6 Table 3-1	H301 - Toxic if swallowed [Acute toxicity (oral) - Category 3]		
MAM	EU - GHS (H-Statements) Annex 6 Table 3-1	H311 - Toxic in contact with skin [Acute toxicity (dermal) - Category 3]		
MAM	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. According to the supplier, this substance is a residual.				

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-03-25 15:40:51</b>		
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%: 0.0000 - 0.1600

GS: LT-UNK

RC: None

NANO: No

SUBSTANCE ROLE: Surfactant

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 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 15:40:52**

%: 0.0000 - 0.7900

GS: LT-UNK

RC: None

NANO: No

SUBSTANCE ROLE: Surfactant

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 this HPD covers multiple particle board grades and the exact ratio is proprietary.

**WATER**

%: 1.8000 - 2.2000

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

MATERIAL TYPE: Other: Water

RESIDUALS AND IMPURITIES NOTES: No data collected regarding this material.

OTHER MATERIAL NOTES: Weight percentage may vary as this HPD covers multiple particle board grades and the exact ratio is proprietary. Standard water is used (municipal).

**WATER**

ID: **7732-18-5**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2022-03-25 15:40:43**

%: 100.0000

GS: BM-4

RC: None

NANO: No

SUBSTANCE ROLE: Diluent

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: According to the supplier, residual and impurity are below the threshold.

**IMPREGNATED DECOR PAPER #1**

%: 1.2800 - 1.4600

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

MATERIAL TYPE: Paper or Cardboard

RESIDUALS AND IMPURITIES NOTES: Supplier declared, based on their technical/scientific knowledge, that residuals and 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. Supplier A is certified GREENGUARD and GREENGUARD Gold.

UNDISCLOSED

ID: Undisclosed

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-03-25 15:40:48**

#: **20.0000 - 80.0000** 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 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 15:40:48**

#: **20.0000 - 80.0000** 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 percentage may vary as this HPD covers multiple particle board grades and the exact ratio is proprietary.

IMPREGNATED DECOR PAPER #2

#: **1.2800 - 1.4600**

PRODUCT THRESHOLD: 1000 ppm 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: **Undisclosed**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 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 15:40:49**%: **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 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 15:40:51**%: **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 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 15:40:52**%: **Impurity/Residual** GS: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CAN	IARC	Group 2b - Possibly carcinogenic to humans

SUBSTANCE NOTES: Weight percentage may vary as this HPD covers multiple particle board grades and the exact ratio is proprietary. According to the supplier, this substance is a residual.

**CATALYST**%: **0.5000 - 0.6000**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 vary as this HPD covers multiple particle board grade of products, Some substances fall below the reportable threshold, and are not reported in the content inventory.

**AMMONIUM NITRATE**

ID: 6484-52-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING 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	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

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

**WATER**

ID: 7732-18-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-03-25 15:40:45**

#: **50.0000 - 60.0000** GS: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Diluent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Weight percentage may vary as this HPD covers multiple particle board grades and the exact ratio is proprietary. According to the supplier, residual and impurity are below the threshold.

**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 repellent. Substance name is UnDisclosed because it is proprietary. Weight percentage may vary as this HPD covers multiple particle board grades and exact ratio is proprietary.

**UNDISCLOSED**

ID: **Undisclosed**

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 Toxicant
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 1A or 1B]



SUBSTANCE NOTES: Substance 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 15:40:46**

%: **40.0000 - 50.0000** GS: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Diluent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Substance 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**

%: **0.5000 - 3.0000** GS: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Surfactant**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Substance 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 15:40:49**

%: **0.5000 - 3.0000** 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	MAK	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 is undisclosed because it is proprietary. Weight percentage may vary as this HPD covers multiple particleboard grades and the exact ratio is proprietary.

### SCAVENGER

%: 0.1000 - 0.6000

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 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.

### WATER

ID: 7732-18-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**      HAZARD SCREENING 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	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Substance is undisclosed because it is proprietary. Weight percentage may vary as this HPD covers multiple particleboard grades and the exact ratio is proprietary. According to the supplier, residual and impurity are below the threshold.

### UREA

ID: 57-13-6

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**      HAZARD SCREENING DATE: **2022-03-25 15:40:46**

%: **49.0000 - 51.0000**      GS: **LT-UNK**      RC: **None**      NANO: **No**      SUBSTANCE ROLE: **Scavenger**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Substance is undisclosed because it is proprietary. Weight percentage may vary as this HPD covers multiple particleboard 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.*

<b>VOC EMISSIONS</b>	<b>CDPH Standard Method V1.2 (Section 01350/CHPS) - Not Applicable</b>		
CERTIFYING PARTY: Second Party APPLICABLE FACILITIES: TAFISA Canada inc. CERTIFICATE URL:	ISSUE DATE: 2019-06-17	EXPIRY DATE:	CERTIFIER OR LAB: Composite Panel Association
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.			
<b>MULTI-ATTRIBUTE</b>	<b>Multi-attribute: CPA 4-19 Eco-Certified Composites (ECC)</b>		
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 Footprint; Locally Sourced Fiber; Recycled, Recovered or Post-Consumer Fiber Content; Sustainable Use of Wood Fiber; Responsible Wood Sourcing.			
<b>FORMALDEHYDE EMISSIONS</b>	<b>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.</b>		
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 Requirements Of: 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.			
<b>SUSTAINABLE FORESTRY</b>	<b>FSC Certification - Single Chain of Custody and Controlled Wood.</b>		
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 registration code NC-COC-003089, NC-CW-003089 FSC® licence code : FSC-C006416			
<b>MANAGEMENT</b>	<b>ISO 14001 Environmental management systems.</b>		
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 Number: 55149-1-02			
<b>MANAGEMENT</b>	<b>ISO 9001 Quality management systems.</b>		
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: 55148-1-02			
<b>MANAGEMENT</b>	<b>ISO 45001 SST Management Systems.</b>		
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

**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 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](mailto: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**

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

**GreenScreen (GS)**

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





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? <input type="radio"/> Yes <input checked="" type="radio"/> No	PREPARER: Vertima VERIFIER: VERIFICATION #:	SCREENING DATE: 2022-03-25 PUBLISHED DATE: 2022-03-25 EXPIRY DATE: 2025-03-25
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## Section 2: Content in Descending Order of Quantity

This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold
- Nested Material Inventory method with individual Material-level thresholds

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.2, available on the HPDC website at: [www.hpd-collaborative.org/hpd-2-2-standard](http://www.hpd-collaborative.org/hpd-2-2-standard)

### SC:BIO:SC:BIO: BIOLOGICAL MATERIAL %: 82.0100

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: No MATERIAL TYPE: Wood Dust, 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 Chemical and Materials Library HAZARD SCREENING DATE: Not Screened

%: 100.0000 GS: Not Screened RC: Both 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: 9004-34-6

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. Wood fibers in particleboard used for LUMMIA product is made of pre-consumer and post-consumer recycled fibers. Pre-consumer Recycled includes fiber, such as scrap, trimmings and cuttings from manufacturing and converting processes of primary wood products. Examples of this category include planer shavings, plytrim, sawdust, fines, chips and bagasse. Post-consumer recycled materials includes materials that are generated by households or by commercial, industrial or institutional facilities.

### UREA FORMALDEHYDE RESIN %: 14.1700

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

RESIDUALS AND IMPURITIES NOTES: According to Pharos, known or potential residual for Formaldehyde compounds, Urea formaldehyde based, is formaldehyde (CAS Number: 50-00-0). No test have been done.

OTHER MATERIAL NOTES: Weight percentage may not vary as this HPD covers only one particle board grade.

#### UNDISCLOSED

ID: Undisclosed

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2022-03-25 15:57:49

%: 88.8900 - 89.2100 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 because the exact ratio is proprietary..

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-03-25 15:58:04**

#: **8.9500 - 10.8000** GS: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Diluent**

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 because the exact ratio is proprietary.

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-03-25 15:58:38**

#: **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 & 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]
PHY	EU - GHS (H-Statements) Annex 6 Table 3-1	H225 - Highly flammable liquid and vapour [Flammable liquids - Category 2]
MAM	EU - GHS (H-Statements) Annex 6 Table 3-1	H331 - Toxic if inhaled [Acute toxicity (inhalation) - Category 3]
MAM	EU - GHS (H-Statements) Annex 6 Table 3-1	H301 - Toxic if swallowed [Acute toxicity (oral) - Category 3]
MAM	EU - GHS (H-Statements) Annex 6 Table 3-1	H311 - Toxic in contact with skin [Acute toxicity (dermal) - Category 3]
MAM	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. 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: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-03-25 15:58:39**

#: **0.0000 - 0.3400** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Surfactant**

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 because the exact ratio is proprietary. .		

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-03-25 15:58:39</b>		
%: <b>0.0000 - 1.7000</b>	GS: <b>LT-UNK</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Surfactant</b>
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.				

**HIGH PRESSURE LAMINATED #1**

%: **1.2200**

PRODUCT THRESHOLD: <b>1000 ppm</b>	RESIDUALS AND IMPURITIES CONSIDERED: <b>Yes</b>	MATERIAL TYPE: <b>Paper or Cardboard</b>
RESIDUALS AND IMPURITIES NOTES: Supplier 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. Supplier is certified GREENGUARD and GREENGUARD Gold.		

**PAPER**

ID: **9004-34-6**

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-03-25 15:57:57</b>		
%: <b>20.0000 - 80.0000</b>	GS: <b>LT-UNK</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Structure component</b>
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
RES	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced		
SUBSTANCE NOTES: Weight percentage may vary as the exact ratio is proprietary.				

**MELAMINE/FORMALDEHYDE RESIN**

ID: **Undisclosed**

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-03-25 15:57:56</b>		
%: <b>20.0000 - 80.0000</b>	GS: <b>LT-UNK</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Binder</b>
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: Weight percentage may vary as the exact ratio is proprietary.				

**HIGH PRESSURE LAMINATED #2**

%: **1.2200**

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.

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-03-25 15:57:52**

%: **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 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 15:57:59**

%: **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 percentage may vary as the exact ratio is proprietary.

**METHYL ALCOHOL**

ID: **67-56-1**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-03-25 15:58:40**

%: **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 & 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]
PHY	EU - GHS (H-Statements) Annex 6 Table 3-1	H225 - Highly flammable liquid and vapour [Flammable liquids - Category 2]
MAM	EU - GHS (H-Statements) Annex 6 Table 3-1	H331 - Toxic if inhaled [Acute toxicity (inhalation) - Category 3]
MAM	EU - GHS (H-Statements) Annex 6 Table 3-1	H301 - Toxic if swallowed [Acute toxicity (oral) - Category 3]
MAM	EU - GHS (H-Statements) Annex 6 Table 3-1	H311 - Toxic in contact with skin [Acute toxicity (dermal) - Category 3]
MAM	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: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING 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	WARNINGS
RES	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: Weight percentage may vary as the exact ratio is proprietary

#### 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 threshold, and are not reported in the content inventory.

**WATER**

ID: 7732-18-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING 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	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

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

**AMMONIUM NITRATE**

ID: 6484-52-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING 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	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

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

**WATER**

%: 0.5200

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes MATERIAL TYPE: Other: Water

RESIDUALS AND IMPURITIES NOTES: No data collected regarding this material.

OTHER MATERIAL NOTES: Weight percentage may not vary as this HPD covers only one particle board grade. Standard water is used (municipal).

**WATER**

ID: 7732-18-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING 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	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: According to the supplier, residual and impurity are below the threshold.

**WAX**

%: 0.3400

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 repellent. Substance name is UnDisclosed because they are proprietary. Weight percentage may not vary as this HPD covers only one particle board grade.

**UNDISCLOSED**ID: **Undisclosed**



%: **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 Toxicant
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 1A or 1B]

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

**UNDISCLOSED**ID: **Undisclosed**%: **40.0000 - 50.0000**GS: **BM-4**RC: **None**NANO: **No**SUBSTANCE ROLE: **Diluent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

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

**UNDISCLOSED**ID: **Undisclosed**%: **0.5000 - 3.0000**GS: **NoGS**RC: **None**NANO: **No**SUBSTANCE ROLE: **Surfactant**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

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

**UNDISCLOSED**ID: **Undisclosed**%: **0.5000 - 3.0000**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	MAK	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 percentage may vary as the exact ratio is proprietary. Information about residuals and impurities not available from supplier since no tests are made. See Other Material

**LACQUER (FINISH HIGH GLOSS)**      %: 0.3000

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 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 threshold and are not reported in the content inventory.

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**      HAZARD SCREENING 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	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 15:57:55**

%: **25.0000 - 35.0000**      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	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CAN	MAK	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 SCREENING DATE: **2022-03-25 15:57:56**

%: **20.0000 - 25.0000** GS: **BM-1** 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 15:58:11**

%: **5.0000** GS: **NoGS** 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 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**

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 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 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 not vary as this is an average percentage. The exact ratio is proprietary.

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>	HAZARD SCREENING DATE: <b>2022-03-25 15:58:14</b>			
%: <b>2.0000</b>	GS: <b>LT-P1</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Binder</b>

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: <b>Pharos Chemical and Materials Library</b>	HAZARD SCREENING DATE: <b>2022-03-25 15:58:16</b>			
%: <b>1.5000</b>	GS: <b>NoGS</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Desiccant</b>

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 not vary as this is an average percentage. The exact ratio is proprietary.

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>	HAZARD SCREENING DATE: <b>2022-03-25 15:58:22</b>			
%: <b>1.0000</b>	GS: <b>LT-UNK</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Binder</b>

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 not vary as this is an average percentage. The exact ratio is proprietary.

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>	HAZARD SCREENING DATE: <b>2022-03-25 15:58:24</b>			
%: <b>0.5000</b>	GS: <b>BM-1</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Pigment</b>

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen
CAN	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification
CAN	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CAN	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources

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: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-03-25 15:58:32</b>		
%: <b>0.2000</b>	GS: <b>LT-UNK</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Filler</b>
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 not vary as this is an average percentage. The exact ratio is proprietary.

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-03-25 15:58:36</b>		
%: <b>0.1000</b>	GS: <b>BM-1</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Pigment</b>
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
CAN	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification		

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 (FINISH MATT)**

%: **0.2300**

PRODUCT THRESHOLD: <b>1000 ppm</b>	RESIDUALS AND IMPURITIES CONSIDERED: <b>Yes</b>	MATERIAL TYPE: <b>Polymeric Material</b>
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 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: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-03-25 15:57:53</b>		
%: <b>25.0000 - 35.0000</b>	GS: <b>LT-1</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Pigment</b>

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	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CAN	MAK	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: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-03-25 15:57:55</b>		
%: <b>25.0000 - 35.0000</b>	GS: <b>LT-UNK</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Monomer</b>
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: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-03-25 15:58:08</b>		
%: <b>5.0000 - 15.0000</b>	GS: <b>LT-UNK</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Binder</b>
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: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-03-25 15:58:08</b>		
%: <b>5.0000</b>	GS: <b>LT-P1</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Binder</b>

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKI	MAK	Sensitizing Substance Sh - Danger of skin sensitization
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
SKI	EU - GHS (H-Statements) Annex 6 Table 3-1	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
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]

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**  
 %: **3.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Photoinitiator**

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 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 15:58:13**  
 %: **2.0000** GS: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Desiccant**

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 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 15:58:19**  
 %: **1.0000 - 10.0000** GS: **NoGS** 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: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-03-25 15:58:21</b>		
%: <b>1.0000</b>	GS: <b>BM-1</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Filler</b>
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
CAN	GHS - Japan	H350 - May cause cancer [Carcinogenicity - Category 1A]		
CAN	GHS - Australia	H350i - May cause cancer by inhalation [Carcinogenicity - Category 1A or 1B]		
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: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-03-25 15:58:21</b>		
%: <b>1.0000</b>	GS: <b>LT-UNK</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Photoinitiator</b>
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
SKI	EU - GHS (H-Statements) Annex 6 Table 3-1	H317 - May cause an allergic skin reaction [Skin sensitization - 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: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-03-25 15:58:19</b>		
%: <b>1.0000</b>	GS: <b>LT-P1</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Binder</b>
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
RES	AOEC - Asthmagens	Asthmagens (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: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-03-25 15:58:26</b>		
%: <b>0.5000</b>	GS: <b>LT-UNK</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Binder</b>
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 not vary as this is an average percentage. The exact ratio is proprietary.				

**UNDISCLOSED** ID: **Undisclosed**

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-03-25 15:58:26</b>		
%: <b>0.5000</b>	GS: <b>NoGS</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Desiccant</b>

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 not vary as this is an average percentage. The exact ratio is proprietary.

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-03-25 15:58:27</b>		
%: <b>0.5000</b>	GS: <b>LT-P1</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Desiccant</b>

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 not vary as this is an average percentage. The exact ratio is proprietary.

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-03-25 15:58:29</b>		
%: <b>0.3000</b>	GS: <b>NoGS</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Desiccant</b>

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 not vary as this is an average percentage. The exact ratio is proprietary.

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-03-25 15:58:32</b>		
%: <b>0.2000</b>	GS: <b>LT-UNK</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Desiccant</b>

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 not vary as this is an average percentage. The exact ratio is proprietary.

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-03-25 15:58:37</b>		
%: <b>0.1000</b>	GS: <b>LT-UNK</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Filler</b>

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 not vary as this is an average percentage. The exact ratio is proprietary.

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: The composition of this product is confidential because it is proprietary.

**UNDISCLOSED**ID: **Undisclosed**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING 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 WARNINGS

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 15:57:59**%: **10.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Polymer species**

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 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: **2021-09-03 14:16:43**%: **0.5000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Desiccant**

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 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 15:58:27**%: **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	MAK	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]
MAM	EU - GHS (H-Statements) Annex 6 Table 3-1	H331 - Toxic if inhaled [Acute toxicity (inhalation) - Category 3]

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 15:58:31**  
 %: **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 to Waters	Class 2 - Hazard to Waters

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 15:58:35**  
 %: **0.1500 - 0.2500** GS: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Stabilizer**

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 15:58:35**  
 %: **0.1500 - 0.2500** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Stabilizer**

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.



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	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CAN	MAK	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: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-03-25 15:58:03</b>		
%: <b>10.0000 - 20.0000</b>	GS: <b>BM-3dg</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Filler</b>
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: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-03-25 15:58:09</b>		
%: <b>5.0000 - 10.0000</b>	GS: <b>LT-P1</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Binder</b>
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
SKI	MAK	Sensitizing Substance Sh - Danger of skin sensitization		
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters		
SKI	EU - GHS (H-Statements) Annex 6 Table 3-1	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]		
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]		

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 - 10.0000** GS: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Monomer**

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 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 15:58:15**%: **2.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Photoinitiator**

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 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: **2021-09-03 17:05:17**%: **1.0000** GS: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Desiccant**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKI	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage [Skin corrosion/irritation - Category 1A or 1B or 1C]

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: **2021-09-03 17:07:43**%: **1.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Filler**

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 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 15:58:18**%: **1.0000** GS: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Polymer species**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS



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: <b>Pharos Chemical and Materials Library</b>	HAZARD SCREENING DATE: <b>2021-09-03 17:27:25</b>			
%: <b>1.0000</b>	GS: <b>LT-UNK</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Photoinitiator</b>

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKI	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction [Skin sensitization - 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: <b>Pharos Chemical and Materials Library</b>	HAZARD SCREENING DATE: <b>2022-03-25 15:58:25</b>			
%: <b>0.5000</b>	GS: <b>LT-UNK</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Binder</b>

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 not vary as this is an average percentage. The exact ratio is proprietary.

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>	HAZARD SCREENING DATE: <b>2022-03-25 15:58:29</b>			
%: <b>0.3000</b>	GS: <b>NoGS</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Desiccant</b>

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 not vary as this is an average percentage. The exact ratio is proprietary.

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>	HAZARD SCREENING DATE: <b>2022-03-25 15:58:30</b>			
%: <b>0.3000</b>	GS: <b>LT-P1</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Antimicrobial Pesticide</b>

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MUL	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters

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 15:58:30**%: **0.3000** GS: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Desiccant**

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 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	Potential Endocrine Disruptor
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
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]
MAM	EU - GHS (H-Statements) Annex 6 Table 3-1	H304 - May be fatal if swallowed and enters airways [Aspiration hazard - 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 SCREENING DATE: **2022-03-25 15:58:38**%: **0.1000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Filler**

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 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.

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING 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	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 15:57:58**

%: **15.0000 - 25.0000** GS: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Binder**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKI	MAK	Sensitizing Substance Sh - Danger of skin sensitization
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
SKI	EU - GHS (H-Statements) Annex 6 Table 3-1	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
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]

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 15:58:00**

%: **10.0000 - 20.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Monomer**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings 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 SCREENING 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	WARNINGS
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: **2021-09-03 17:49:17**

%: **5.0000 - 10.0000** GS: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Monomer**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKI	MAK	Sensitizing Substance Sh - Danger of skin sensitization
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
SKI	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction [Skin sensitization - Category 1]
SKI	EU - GHS (H-Statements)	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
EYE	EU - GHS (H-Statements)	H319 - Causes serious eye irritation [Serious eye damage/eye irritation - 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 SCREENING DATE: **2021-09-03 17:50:34**

%: **5.0000** GS: **BM-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Filler**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification
CAN	IARC	Group 2b - Possibly carcinogenic to humans

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 15:58:15**

%: **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]

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: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-03-25 15:58:28</b>		
%: <b>0.5000</b>	GS: <b>LT-UNK</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Filler</b>
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 not vary as this is an average percentage. The exact ratio is proprietary.

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-03-25 15:58:33</b>		
%: <b>0.2000</b>	GS: <b>NoGS</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Desiccant</b>
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 not vary as this is an average percentage. The exact ratio is proprietary.

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.

**UNDISCLOSED**ID: **Undisclosed**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-03-25 15:57:57**%: **20.0000 - 30.0000**GS: **BM-3dg**RC: **None**NANO: **No**SUBSTANCE ROLE: **Filler**

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 15:58:02**%: **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	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CAN	MAK	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 SCREENING DATE: **2022-03-25 15:58:01**%: **10.0000 - 20.0000**GS: **LT-P1**RC: **None**NANO: **No**SUBSTANCE ROLE: **Binder**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKI	MAK	Sensitizing Substance Sh - Danger of skin sensitization
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
SKI	EU - GHS (H-Statements) Annex 6 Table 3-1	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
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]

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: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-03-25 15:58:09</b>		
%: <b>5.0000 - 10.0000</b>	GS: <b>LT-UNK</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Monomer</b>
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: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2021-09-03 18:02:53</b>		
%: <b>5.0000 - 10.0000</b>	GS: <b>BM-1</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Binder</b>
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: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2021-09-03 18:04:21</b>		
%: <b>5.0000</b>	GS: <b>LT-P1</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Photoinitiator</b>
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 not vary as this is an average percentage. The exact ratio is proprietary.

**UNDISCLOSED**

ID: **Undisclosed**



HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-03-25 15:58:13</b>		
%: <b>2.0000</b>	GS: <b>LT-P1</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Binder</b>
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: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-03-25 15:58:20</b>		
%: <b>1.0000</b>	GS: <b>NoGS</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Desiccant</b>
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 not vary as this is an average percentage. The exact ratio is proprietary.				

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-03-25 15:58:18</b>		
%: <b>1.0000</b>	GS: <b>LT-UNK</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Filler</b>
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 not vary as this is an average percentage. The exact ratio is proprietary.				

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-03-25 15:58:22</b>		
%: <b>1.0000</b>	GS: <b>LT-UNK</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Photoinitiator</b>
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
SKI	EU - GHS (H-Statements) Annex 6 Table 3-1	H317 - May cause an allergic skin reaction [Skin sensitization - 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: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-03-25 15:58:28</b>		
%: <b>0.5000</b>	GS: <b>NoGS</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Desiccant</b>
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 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 15:58:34**

%: **0.2000** GS: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Desiccant**

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 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 15:58:34**

%: **0.2000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Filler**

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 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: **2021-05-21 17:46:12**

%: **0.1000** GS: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Antimicrobial Pesticide**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MUL	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters

**LAGUER (BOTTOM LAYER #2)**

%: **0.1000**

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.

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.

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING 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	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 15:57:53**%: **25.0000** GS: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Polymer species**

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 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	MAK	Sensitizing Substance Sh - Danger of skin sensitization
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
SKI	EU - GHS (H-Statements) Annex 6 Table 3-1	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
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]

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 15:58:01**%: **10.0000 - 20.0000** 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: **2021-09-03 19:10:07**%: **5.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Photoinitiator**

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 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 15:58:10**

%: **5.0000 - 10.0000** GS: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Monomer**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKI	MAK	Sensitizing Substance Sh - Danger of skin sensitization
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
SKI	EU - GHS (H-Statements) Annex 6 Table 3-1	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
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]

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: **2021-09-03 19:15:55**

%: **5.0000** GS: **BM-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Filler**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification
CAN	IARC	Group 2b - Possibly carcinogenic to humans

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 15:58:20**

%: **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]
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]

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: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2021-09-03 19:19:29</b>		
%: <b>0.5000</b>	GS: <b>LT-UNK</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Filler</b>
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 not vary as this is an average percentage. The exact ratio is proprietary.

**UNDISCLOSED**

ID: **UnDisclosed**

HAZARD SCREENING METHOD: <b>Pharos Chemical and Materials Library</b>		HAZARD SCREENING DATE: <b>2022-03-25 15:58:31</b>		
%: <b>0.2000</b>	GS: <b>NoGS</b>	RC: <b>None</b>	NANO: <b>No</b>	SUBSTANCE ROLE: <b>Desiccant</b>
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 not vary as this is an average percentage. The exact ratio is proprietary.

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 Pesticide**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MUL	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters

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.

*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.*

<b>VOC EMISSIONS</b>	<b>VOC emissions: CDPH Standard Method V1.2 (Section 01350/CHPS) - Not applicable</b>		
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
<b>MULTI-ATTRIBUTE</b>	<b>Multi-attribute: CPA 4-19 Eco-Certified Composites (ECC)</b>		
CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: TAFISA Canada inc. CERTIFICATE URL: CERTIFICATION AND COMPLIANCE NOTES:	ISSUE DATE: 2019-01-02	EXPIRY DATE:	CERTIFIER OR LAB: Composite Panel Association
<b>FORMALDEHYDE EMISSIONS</b>	<b>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.</b>		
CERTIFYING PARTY: Second Party APPLICABLE FACILITIES: Tafisa Canada inc. CERTIFICATE URL: CERTIFICATION AND COMPLIANCE NOTES: Fulfills The Requirements Of: 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.	ISSUE DATE: 2019-06-19	EXPIRY DATE:	CERTIFIER OR LAB: Composite Panel Association
<b>FORMALDEHYDE EMISSIONS</b>	<b>Substrate meet CARB Composite Wood ATCM CA 93120 Ultra Low-Emitting Formaldehyde (ULEF).</b>		
CERTIFYING PARTY: Second Party APPLICABLE FACILITIES: Tafisa Canada inc. CERTIFICATE URL: CERTIFICATION AND COMPLIANCE NOTES: Fulfills The Requirements Of: Substrate meet CARB Composite Wood ATCM CA 93120 Ultra Low-Emitting Formaldehyde (ULEF).	ISSUE DATE: 2021-09-09	EXPIRY DATE: 2022-05-07	CERTIFIER OR LAB: Composite Panel Association
<b>SUSTAINABLE FORESTRY</b>	<b>FSC Certification - Single Chain of Custody and Controlled Wood.</b>		
CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Tafisa Canada inc. CERTIFICATE URL: CERTIFICATION AND COMPLIANCE NOTES: Certificate registration code NC-COC-003089, NC-CW-003089 FSC® licence code : FSC-C006416.	ISSUE DATE: 2016-07-28	EXPIRY DATE: 2022-07-27	CERTIFIER OR LAB: Preferred by Nature
<b>MANAGEMENT</b>	<b>ISO 14001 Environmental management systems.</b>		
CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Tafisa Canada inc. CERTIFICATE URL: CERTIFICATION AND COMPLIANCE NOTES: Certificate Number: 55149-1-02.	ISSUE DATE: 2021-06-17	EXPIRY DATE: 2024-06-21	CERTIFIER OR LAB: Bureau de Normalisation du Québec
<b>MANAGEMENT</b>	<b>ISO 9001 Quality management systems.</b>		
CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Tafisa Canada inc. CERTIFICATE URL: CERTIFICATION AND COMPLIANCE NOTES: Certificate Number: 55148-1-02	ISSUE DATE: 2021-06-14	EXPIRY DATE: 2024-06-21	CERTIFIER OR LAB: Bureau de Normalisation du Québec
<b>MANAGEMENT</b>	<b>ISO 45001 SST Management Systems.</b>		



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**

*The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.*

**KEY**

**Hazard Types**

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

**GreenScreen (GS)**

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

**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.*

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**

**Nested Method / Product Threshold**

**CONTENT INVENTORY**

<p><b>Inventory Reporting Format</b></p> <p><input checked="" type="radio"/> Nested Materials Method <input type="radio"/> Basic Method</p> <p><b>Threshold Disclosed Per</b></p> <p><input type="radio"/> Material <input checked="" type="radio"/> Product</p>	<p><b>Threshold Level</b></p> <p><input type="radio"/> 100 ppm <input checked="" type="radio"/> 1,000 ppm <input type="radio"/> Per GHS SDS <input type="radio"/> Other</p>	<p><b>Residuals/Impurities</b></p> <p>Considered in 3 of 3 Materials</p> <p><b>Explanation(s) provided for Residuals/Impurities?</b></p> <p><input checked="" type="radio"/> Yes <input type="radio"/> No</p>	<p><i>All Substances Above the Threshold Indicated Are:</i></p> <p><b>Characterized</b> <input checked="" type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input type="radio"/> No <i>% weight and role provided for all substances except SC substances characterized according to SC guidance.</i></p> <p><b>Screened</b> <input checked="" type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input type="radio"/> No <i>All substances screened using Priority Hazard Lists with results disclosed except SC substances screened according to SC guidance.</i></p> <p><b>Identified</b> <input type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input checked="" type="radio"/> No <i>One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special Condition did not follow guidance.</i></p>
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**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.

**CONSISTENCY WITH OTHER PROGRAMS**

Pre-checked for LEED v4 Material Ingredients Option 1

Third Party Verified?

- Yes
- No

PREPARER: Vertima

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2022-03-25

PUBLISHED DATE: 2022-03-25

EXPIRY DATE: 2025-03-25

## Section 2: Content in Descending Order of Quantity

This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold
- Nested Material Inventory method with individual Material-level thresholds

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.2, available on the HPDC website at: [www.hpd-collaborative.org/hpd-2-2-standard](http://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: 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.

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **Not Screened**

%: **60.0000 - 70.0000** 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. Weight percentage may vary as the exact ratio is proprietary.

CURED THERMOSETTING RESINS

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-03-25 15:54:31**

%: **30.0000 - 40.0000** GS: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RES	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced

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

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-03-25 15:54:33**

%: **0.4100** GS: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Plasticizer**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

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

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-03-25 15:54:35**

%: **0.1500** GS: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Diluent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: According to the supplier, residual and impurity are below the threshold.

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**

#: **4.9000**      GS: **BM-4**      RC: **None**      NANO: **No**      SUBSTANCE ROLE: **Diluent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: According 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**



HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: According to the supplier, residual and impurity are below the threshold. 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 15:54:34**  
 %: **0.2000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Surfactant**

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.

**IMPREGNATED OVERLAY**

%: **3.7000 - 3.8300**

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

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.

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-03-25 15:54:30**  
 %: **63.1800** 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.

**SC:DRY OVERLAY PAPER**

ID: **SC:Bio**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **Not Screened**  
 %: **30.0000** 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: 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.

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-03-25 15:54:31**

%: **5.0600** GS: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Diluent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: According to the supplier, residual and impurity are below the threshold.

**UNDISCLOSED**

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-03-25 15:54:32**

%: **1.2700** GS: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Plasticizer**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

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 15:54:34**

%: **0.2200** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Surfactant**

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 15:54:35**

%: **0.1600** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Anti-adhesive agent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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: 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 15:54:36**

%: **0.0600** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Catalyst**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MUL	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
RES	AOEC - Asthmagens	Asthmagen (G) - generally accepted
CAN	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
RES	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
RES	US EPA - PPT Chemical Action Plans	Inhalation 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** HAZARD SCREENING DATE: **2022-03-25 15:54:36**

%: **0.0500** GS: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Lubricant**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

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

## Section 3: Certifications and Compliance

*This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.*

VOC EMISSIONS	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 Number: EPD-ICL-20170155-CBE1-EN			
OTHER	NSF/ANSI 35 High Pressure Decorative Laminate For Surfacing Food Service Equipment.		
CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Surforma, SA CERTIFICATE URL:	ISSUE DATE: 2021-05-03	EXPIRY DATE:	CERTIFIER OR LAB: NSF International
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 form 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](mailto: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**

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

**GreenScreen (GS)**

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

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- 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:

## TAFISA CANADA INC.

4660 Villeneuve Street, Lac-Mégantic, (Quebec) G6B2C3, Canada

[www.tafisa.ca](http://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



Environmental certification experts

Certificate # VERT-RC18-1085-01



Josée Lupien,  
LEED Fellow & WELL AP  
President of Vertima Inc.  
[www.vertima.ca](http://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:

## TAFISA CANADA INC.

4660 Villeneuve Street, Lac-Mégantic, (Quebec) G6B2C3, Canada  
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) Tafipan/Tafipan-Evolo	51.06% - 86.75%	0.00% - 34.70%

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



Environmental certification experts

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:

## TAFISA CANADA INC.

4660 Villeneuve Street, Lac-Mégantic, (Quebec) G6B2C3, Canada  
www.tafisa.ca

## 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



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 [www.tafisa.ca/en](http://www.tafisa.ca/en)  
For any explanatory material regarding this EPD, please contact the program operator.





Environmental  
Product  
Declaration

CSA Group Registered  
Based on ISO 14025  
and Other Requirements  
For more information visit  
[csaregistries.ca/epd](http://csaregistries.ca/epd)

#1491-5377  
Mar 2022 - 2027

# 1 GENERAL INFORMATION

PCR GENERAL INFORMATION			
<b>Reference PCR</b>	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).		
<b>The PCR review was conducted by:</b>	<i>Dr. Thomas Gloria (Chair)</i> Industrial Ecology Consultants	<i>Dr. Indro Ganguly</i> University of Washington	<i>Dr. Sahoo</i> University of Georgia
EPD GENERAL INFORMATION			
<b>Program Operator</b>	CSA Group 178 Rexdale Blvd, Toronto, Ontario, Canada M9W 1R3 <a href="http://www.csagroup.org">www.csagroup.org</a>		
<b>Declared Products</b>	<b>Particleboards and Decorative Panels (TFL)</b>		
<b>EPD Registration Number</b> 1491-5377	<b>EPD Date of Issue</b> 2022/03	<b>EPD Period of Validity<sup>1</sup></b> 2022/03 - 2027/03	
<b>EPD Recipient Organization</b>	Tafisa Canada Inc. 4660 rue Villeneuve, Lac-Mégantic Quebec, JG6B 2C3 Canada <a href="http://www.tafisa.ca/en">www.tafisa.ca/en</a>		
<b>EPD Type/Scope and Declared Unit</b> Product specific type III, cradle-to-gate EPD with declared unit of 1 m <sup>3</sup> of Particleboards and Decorative panels (TFL) produced.		<b>Year of Reported Manufacturer Primary Data</b> 2019	
<b>LCA Software</b> Open LCA v.1.10.3	<b>LCI Databases</b> ecoinvent 3.7, US LCI	<b>LCIA Methodology</b> TRACI 2.1- IPCC 2013	
This LCA and EPD were prepared by:		Gatien Geraud Essoua Ph.D., Eng. Forestry. Vertima Inc. <a href="http://www.vertima.ca">www.vertima.ca</a>	
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.  <input type="checkbox"/> Internal <input checked="" type="checkbox"/> External		 Jean-François 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

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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-EVOLO™. TAFIPAN is certified EPA TSCA Title VI-compliant with formaldehyde emissions below 0.09 ppm, while TAFIPAN-EVOLO™ 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 (Evolò, M2, P2, MF, LD, M3, MS). They cover a range of densities, with an average of 705.19 kg/m<sup>3</sup> and 693.05 kg/m<sup>3</sup> 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 performance data 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](https://tafisa.ca/sites/default/files/2021-07/Brochure_Tafisa_2021-2022_0.pdf)

Table 1: Technical data for products under study.

Items	Units	Particleboards	Decorative Panels
Average Thickness	mm	19.32	18.05
Average Width	mm	1,397.00	1,397.00
Average Density	kg/m <sup>3</sup>	705.19	693.05

## 2.2. MATERIAL COMPOSITION

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

Table 2: Materials composition of one m<sup>3</sup> of Particleboards and Decorative Panels.

Materials	Particleboards		Decorative Panels	
	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%

## 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.

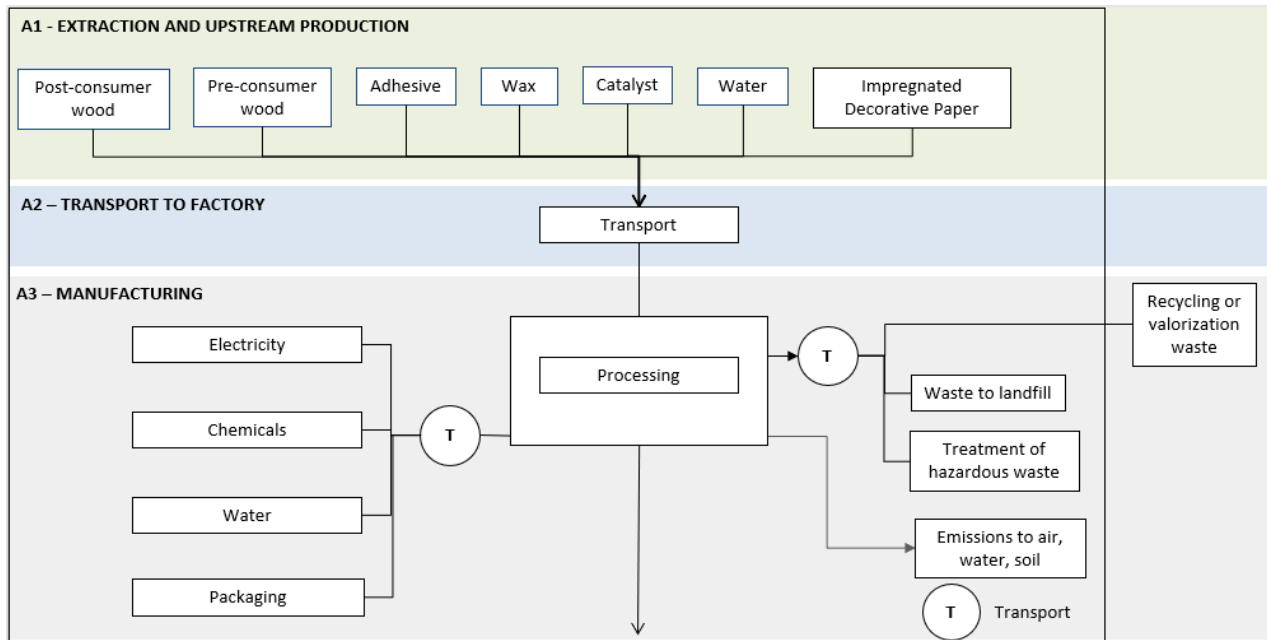


Figure 2: Production process flow diagram for Tafisa panels.

### 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<sup>3</sup> of Tafisa panel. **Table 3** presents all products targeted by this report and their respective DU.

**Table 3: Declared Unit of panels under study.**

Items	Units	Particleboards	Decorative Panels
Declared Unit	m <sup>3</sup>	1	1
Average Mass	kg	7.05E+02	6.93E+02
Average Thickness	mm	19.32	18.05
Average Density	kg/m <sup>3</sup>	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**

PRODUCTION STAGE			CONSTRUCTION PROCESS STAGE		USE STAGE							END-OF-LIFE STAGE			
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
X	X	X	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND

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



### 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.

### 3.6. DATA SOURCES AND QUALITY REQUIREMENTS

Data Quality Parameter	Data Quality Discussion
<p><b>Source of Manufacturing Data:</b> Description sources of data</p>	<p>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.</p> <p>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 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.</p>
<p><b>Source of Secondary Data:</b> Description sources of raw materials, energy source, transport, waste and packaging data</p>	<p>When appropriate, the grid mix was changed for the grid mix of the province or country where production takes places. Otherwise, ecoinvent data representative of the global market or “rest-of-the-world” were selected as proxies. Wood extraction data and transport data were taken from the US LCI database, which is specific to a North American context.</p>

Data Quality Parameter	Data Quality Discussion
<b>Geographical Representativeness</b>	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).
<b>Temporal Representativeness</b>	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.
<b>Technological Representativeness</b>	Primary data obtained from the manufacturer is representative of the current technologies and materials used by the company.
<b>Completeness</b>	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 <sub>2</sub> eq	2.21E+02	1.44E+01	9.86E+01	3.34E+02
Biogenic Carbon Removal from Product System	kg CO <sub>2</sub> eq.	-1.13E+03	0.00E+00	-1.19E+02	-1.25E+03
Biogenic Carbon Emissions from Product System	kg CO <sub>2</sub> 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 <sub>2</sub> 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 O <sub>3</sub> eq	1.13E+01	2.74E+00	1.73E+00	1.58E+01
Abiotic Resource Depletion Potential of Non-Renewable (Fossil) Energy Resources (ADP <sub>fossil</sub> )	MJ surplus	3.64E+02	2.93E+01	3.32E+01	4.27E+02

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

Impact categories	Units	Extraction (A1)	Transport (A2)	Manufacturing (A3)	Total
Global Warming Potential	kg CO <sub>2</sub> eq	2.55E+02	1.46E+01	1.94E+02	4.63E+02
Biogenic Carbon Removal from Product System	kg CO <sub>2</sub> eq.	-1.17E+03	0.00E+00	-2.20E+02	-1.38E+03
Biogenic Carbon Emissions from Product System	kg CO <sub>2</sub> 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 <sub>2</sub> 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 O <sub>3</sub> eq	1.32E+01	2.78E+00	3.43E+00	1.94E+01
Abiotic Resource Depletion Potential of Non-Renewable (Fossil) Energy Resources (ADP <sub>fossil</sub> )	MJ surplus	4.43E+02	2.97E+01	6.98E+01	5.42E+02

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

(2): GWP 100 excludes biogenic CO<sub>2</sub> removals and emissions associated with biobased products and packaging; 100-year 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.

**Table 7: Particleboards Life Cycle Inventory Results**

Resource use					
Parameters	Units	Production stage			Total
		Extraction (A1)	Transport (A2)	Manufacturing (A3)	
RPR <sub>E</sub> <sup>(3)</sup>	MJ, LHV	5.00E+03	9.95E-02	6.79E+02	5.68E+03
RPR <sub>M</sub> <sup>(4)*</sup>	MJ, LHV	6.83E+03	N/A	N/A	6.83E+03
NRPR <sub>E</sub> <sup>(5)</sup>	MJ, LHV	1.59E+03	2.10E+02	2.84E+02	2.09E+03
NRPR <sub>M</sub> <sup>(6)*</sup>	MJ, LHV	1.92E+03	N/A	N/A	1.92E+03
SM <sup>(7)</sup>	kg	1.68E+02	N/A	N/A	1.68E+02
RSF <sup>(8)</sup>	MJ, LHV	N/A	N/A	0.00E+00	0.00E+00
NRSF <sup>(9)</sup>	MJ, LHV	N/A	N/A	0.00E+00	0.00E+00
RE <sup>(10)</sup>	MJ, LHV	N/A	N/A	0.00E+00	0.00E+00
FW <sup>(11)</sup>	m <sup>3</sup>	N/A	N/A	1.31E-01	1.31E-01
Output Flows and Waste					
HWD <sup>(12)</sup>	kg	N/A	N/A	4.92E-02	4.92E-02
NHWD <sup>(13)</sup>	kg	N/A	N/A	9.46E+00	9.46E+00
HLRW <sup>(14)</sup>	m <sup>3</sup>	N/A	N/A	N/A	N/A
ILLRW <sup>(15)</sup>	m <sup>3</sup>	N/A	N/A	N/A	N/A
CRU <sup>(16)</sup>	kg	N/A	N/A	N/A	N/A
MR <sup>(16)</sup>	kg	N/A	N/A	3.24E+00	3.24E+00
MER <sup>(16)</sup>	kg	N/A	N/A	5.66E+01	5.66E+01
EE <sup>(16)</sup>	MJ, LHV	N/A	N/A	3.88E+01	3.88E+01

Table 8: Decorative Panels Life Cycle Inventory Results

Resource Use					
Parameters	Units	Production stage			Total
		Extraction (A1)	Transport (A2)	Manufacturing (A3)	
RPR <sub>E</sub> <sup>(3)</sup>	MJ, LHV	4.52E+03	1.01E-01	1.03E+03	5.55E+03
RPR <sub>M</sub> <sup>(4)*</sup>	MJ, LHV	6.48E+03	N/A	N/A	6.48E+03
NRPR <sub>E</sub> <sup>(5)</sup>	MJ, LHV	2.27E+03	2.13E+02	6.00E+02	3.08E+03
NRPR <sub>M</sub> <sup>(6)*</sup>	MJ, LHV	1.87E+03	N/A	N/A	1.87E+03
SM <sup>(7)</sup>	kg	1.67E+02	N/A	N/A	1.67E+02
RSF <sup>(8)</sup>	MJ, LHV	N/A	N/A	0.00E+00	0.00E+00
NRSF <sup>(9)</sup>	MJ, LHV	N/A	N/A	0.00E+00	0.00E+00
RE <sup>(10)</sup>	MJ, LHV	N/A	N/A	0.00E+00	0.00E+00
FW <sup>(11)</sup>	m <sup>3</sup>	N/A	N/A	2.41E-01	2.41E-01
Output Flows and Waste					
HWD <sup>(12)</sup>	kg	N/A	N/A	9.52E-02	9.52E-02
NHWD <sup>(13)</sup>	kg	N/A	N/A	9.46E+00	9.46E+00
HLRW <sup>(14)</sup>	m <sup>3</sup>	N/A	N/A	N/A	N/A
ILLRW <sup>(15)</sup>	m <sup>3</sup>	N/A	N/A	N/A	N/A
CRU <sup>(16)</sup>	kg	N/A	N/A	N/A	N/A
MR <sup>(16)</sup>	kg	N/A	N/A	6.27E+00	6.27E+00
MER <sup>(16)</sup>	kg	N/A	N/A	1.09E+02	1.09E+02
EE <sup>(16)</sup>	MJ, LHV	N/A	N/A	7.49E+01	7.49E+01

\*In the calculation of RPR<sub>M</sub> and NRPR<sub>M</sub>, packaging materials were excluded.

- (3): RPR<sub>E</sub> = RPRT - RPR<sub>M</sub>, where RPRT is equal to the value for renewable energy obtained using the CED LHV.
- (4): RPR<sub>M</sub> 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<sub>M</sub>, packaging materials were excluded.
- (5): NRPR<sub>E</sub> = NRPR<sub>T</sub> - NRPR<sub>M</sub>, where NRPR<sub>T</sub> 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<sub>M</sub> 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<sub>M</sub>, 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).

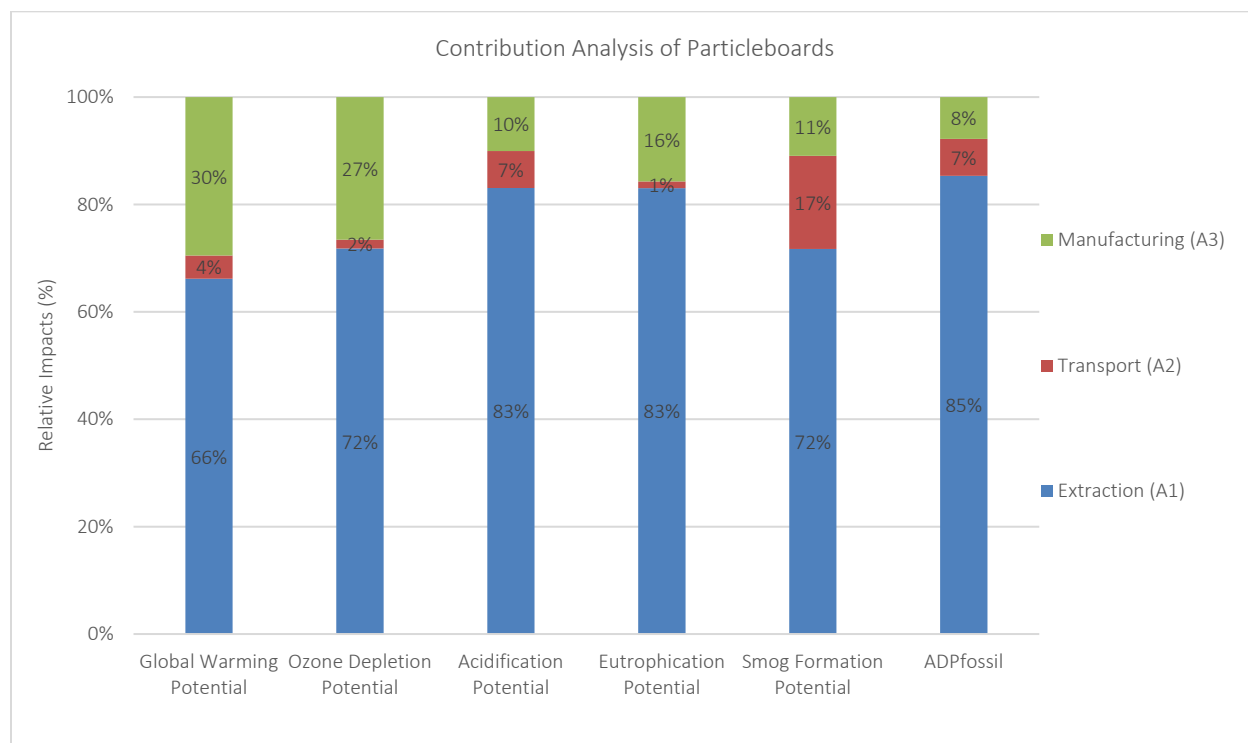
(15): Calculated as per ACLCA ISO 21930 Guidance [4], 10.4 Intermediate- and low-level radioactive waste (ILLRW), conditioned, to final repository. It should be noted that the Tafisa panel manufacturing process does not generate any ILLRW. Low- and intermediate-level radioactive wastes, e.g., when generated 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%.

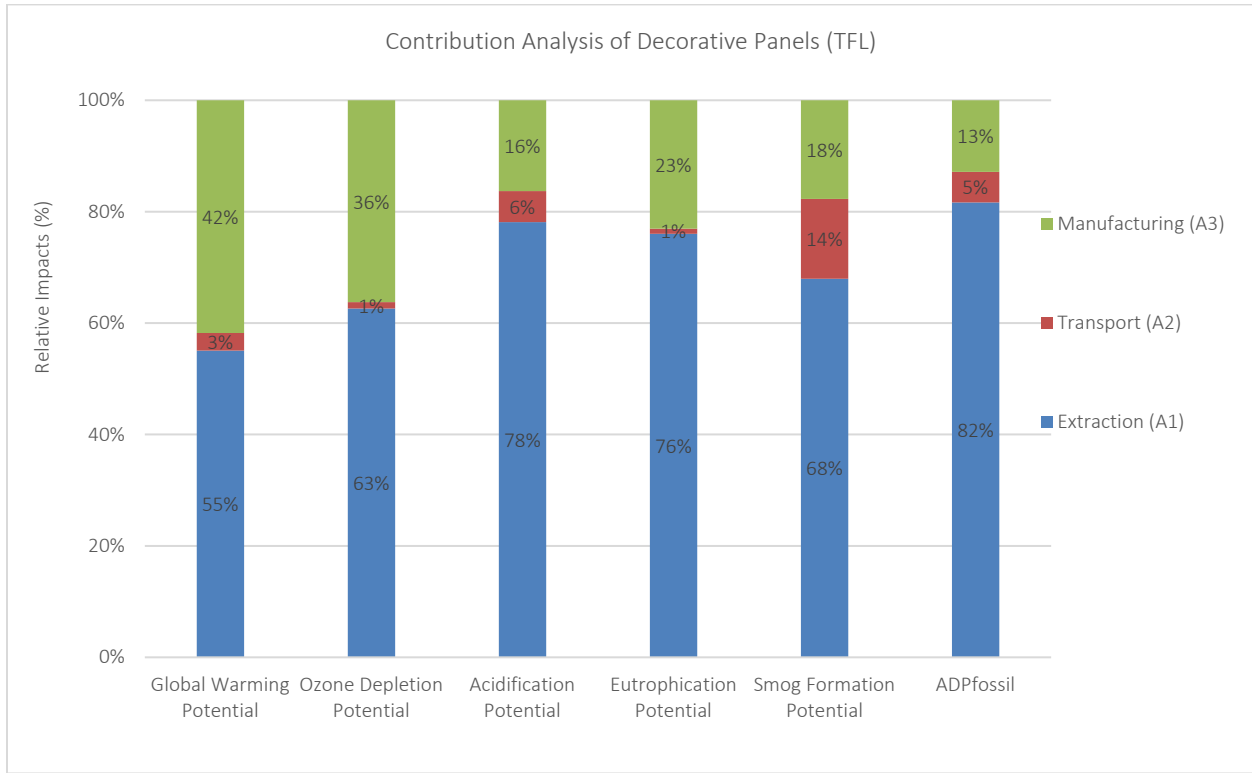


Figure 4: Contribution of each life cycle module for Tafisa Decorative Panels.



## 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.

**Table 9: Biogenic carbon content in one m<sup>3</sup> of Tafisa panels at manufacturing gate.**

Modules	Parameters	Particleboards	Decorative Panels	Units
		Values	Values	
A1	Biogenic Carbon Removal from Product	-1132.26	-1165.21	kg CO2 eq.
A3	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.
	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.

## 6. REFERENCES

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**EPD**

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