created via: HPDC Online Builder

**HPD UNIQUE IDENTIFIER: 30070** 

CLASSIFICATION: 06 42 00 Wood Paneling

PRODUCT DESCRIPTION: This HPD covers all available dimensions, thicknesses and laminate options for NU Green 2® Particleboard by Uniboard®. Uniboard's NU Green 2® Particleboard is primarily composed of cellulosic materials (usually wood), generally in the form of discrete pieces of particles, as distinguished from fibers, bonded together with a bonding system cured under heat and pressure, and contains additives. Ultra-Low Emission Formaldehyde (ULEF) panels.

# Section 1: Summary

### **Nested Method / Product Threshold**

#### **CONTENT INVENTORY**

**Inventory Reporting Format** 

Nested Materials Method

C Basic Method

**Threshold Disclosed Per** 

Material

Product

Threshold Level

C 1,000 ppm

C Per GHS SDS

Other

**Residuals/Impurities Evaluation** 

Completed in 7 of 7 Materials

Explanation(s) provided for Residuals/Impurities?

Yes ○ No

For all contents above the threshold, the manufacturer has: Characterized Yes ○ No

Provided weight and role.

Screened ⊙ Yes ○ No

Provided screening results using HPDC-approved methods.

Identified

Yes No

Provided name and CAS RN or other identifier.

#### CONTENT IN DESCENDING ORDER OF QUANTITY

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

NESTED MATERIAL | MATERIAL OR SUBSTANCE | RESIDUAL OR **IMPURITY** 

**GREENSCREEN SCORE | HAZARD TYPE** 

WOOD [ WOOD FIBER ] MELAMINE-UREA-FORMALDEHYDE (MUF) [ UNDISCLOSED LT-UNK | UNDISCLOSED BM-4 UNDISCLOSED BM-1 | CAN | END | SKI | MUL | MAM | GEN | AQU | EYE | PHY ] WATER [ WATER BM-4] MELAMINE-CELLULOSE [ UNDISCLOSED LT-UNK UNDISCLOSED NoGS UNDISCLOSED NoGS UNDISCLOSED LT-P1 | | SKI UNDISCLOSED LT-UNK UNDISCLOSED LT-1 | CAN | END | | MAM UNDISCLOSED BM-4 UNDISCLOSED LT-P1 | END | EYE | | MAM UNDISCLOSED LT-1 | END | DEV | EYE | MAM | SKI ] SCAVENGER [ UREA LT-UNK | EYE ] WAX [ SLACK WAX (PETROLEUM) LT-1 | CAN | MUL | DEV ] CATALYST [ AMMONIUM SULFATE LT-P1 | END | ]

Number of Greenscreen BM-4/BM3 contents ... 3

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

Nanomaterial ... No

#### **INVENTORY AND SCREENING NOTES:**

Special Conditions applied: [BiologicalMaterial]

HPD prepared using a Nested Materials Inventory with a product threshold at 100 ppm. The content inventory includes ranges to encompass both NU Green 2® Particleboard with and without melamine lamiates. NU Green 2® Particleboard contain materials with Special Conditions (biological material and polymers) as per the HPDC. Reporting of Biological materials was done according to HPDC Guidelines. Guidelines for reporting polymers are still under development by HPDC and the manufacturers will update the HPD accordingly once these guidelines get published. Substances present in NU Green 2® Particleboard, as well as known residuals and impurities, have been disclosed at 100 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 listinas.

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

Sustainable forestry: FSC Certification - Chain of Custody (COC) Formaldehyde emissions: EPA TSCA Title VI (40 CFR 770), CAN/CSA-0160-16, ANSI A208.1 and CARB Composite Wood ATCM CA 93120 Ultra Low-Emitting Formaldehyde (ULEF)

Multi-attribute: CPA 4-19 Eco-Certified Composite (ECC) - Value Added Certification

### **CONSISTENCY WITH OTHER PROGRAMS**

Pre-checked for LEED v4 Option 1. Pre-checked for LEED v4.1 Option 1.

PREPARER: Vertima **SCREENING DATE: 2022-10-07** Third Party Verified?

 C Yes
 VERIFIER:
 PUBLISHED DATE: 2022-10-07

 ⊙ No
 VERIFICATION #:
 EXPIRY DATE: 2025-10-07

### Section 2: Content in Descending Order of Quantity

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

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

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.3, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-3-standard

WOOD %: 82.9000 - 85.9000

PRODUCT THRESHOLD: 100 RESIDUALS AND IMPURITIES EVALUATION COMPLETED: MATERIAL TYPE: Wood Dust, Fiber or

ppm Yes Chips

RESIDUALS AND IMPURITIES NOTES: No residuals or impurities suspected to be present in wood fiber.

OTHER MATERIAL NOTES: Weight percentage may vary as this HPD covers multiple products, i.e. with or without laminate.

WOOD FIBER ID: Biological Material

HAZARD DATA SOURCE: HPDC Special Conditions Policy

%: 100.0000 GreenScreen: Not Required RC: PreC NANO: No MATERIAL ROLE: Structure component

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

Hazard Screening is not applicable to this Special Condition

BIOLOGICAL MATERIALS CATEGORY: Tree-based materials

INGREDIENT DESCRIPTION: 9004-34-6

MATERIAL CONTENT NOTES: Pre-Consumer Recycled includes fiber, such as scrap, trimmings and cuttings, generated as a by-product from manufacturing and converting processes of primary wood products. Examples of this category include planer shavings, plytrim, sawdust, fines, chips and bagasse.

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.

MELAMINE-UREA-FORMALDEHYDE

(MUF)

%: 7.3000 - 7.6000

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED:

MATERIAL TYPE: Polymeric

Yes

es Materia

RESIDUALS AND IMPURITIES NOTES: Supplier declared residuals listed in substance list, and, backed by technical/scientific knowledge, no impurities present in their products. According to Pharos, known or potential residual for MUF, Urea formaldehyde based, are formaldehyde (50-00-0), melamine (108-78-1) and urea (57-13-6).

OTHER MATERIAL NOTES: Weight percentage may vary as this HPD covers multiple products, i.e. with or without laminate, this material has multiple receipies. The composition of this product is confidential.

UNDISCLOSED ID: Undisclosed

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2022-10-07 10:54:28

%: 64.0000 - 69.0000 GreenScreen: LT-UNK RC: None NANO: No SUBSTANCE ROLE: Binder

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	EC - CEPA DSL	Persistent
ADDITIONAL LIGHNOG	AOFNOY	NOTIFICATION
ADDITIONAL LISTINGS	AGENCY	NOTIFICATION
RESTRICTED LIST	Perkins+Will (P+W)	P&W - Precautionary List
		Precautionary list of substances recommended for avoidance
RESTRICTED LIST	International Living Future Institute (ILFI)	Living Building Challenge 4.0 - Red List of Materials & Chemicals
		Red List substances to avoid in Living Building Challenge V4.0 projects
RESTRICTED LIST	International Living Future Institute (ILFI)	Living Building Challenge 4.0 - Red List of Materials & Chemicals
		Watch List Substances Considered for Inclusion in the Living Building Challenge Red List

SUBSTANCE NOTES: This substance is undisclosed as it is proprietary. Weight interval is used to account for the use of different MUF resin and to keep exact product recipes confidential.

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	HAZARD SO	CREENING DATE:	2022-10-07 10:54:30
%: 31.0000 - 36.0000	GreenScreen: BM-4	RC: None	NANO: <b>No</b>	SUBSTANCE ROLE: Diluent
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
None found			No warr	nings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	AGENCY		NOTIFICATION	

**EU - REACH Exemptions** 

Green Circle - Verified Low Concern

US EPA - DfE SCIL

safety

Exempted from REACH Annex IV listing due to intrinsic

European Union / European Commission

US Environmental Protection Agency (US

(EU EC)

EPA)

SUBSTANCE NOTES: This substance is undisclosed as it is proprietary. Weight interval is used to account for the use of different MUF resin and to keep exact product recipes confidential.

UNDISCLOSED				ID: Undisclosed
HAZARD DATA SOURCE: Pharos	s Chemical and Materials Library	HAZARD SC	REENING DATE:	2022-10-07 10:54:35
%: Impurity/Residual	GreenScreen: BM-1	RC: None	NANO: <b>No</b>	SUBSTANCE ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
CAN	US CDC - Occupational Carcino	gens	Occupational Ca	arcinogen

UNDISCLOSED

**EXEMPT** 

**POSITIVE LIST** 

**ID: Undisclosed** 

ID: Undicologed

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	
SKI	MAK	Sensitizing Substance Sh - Danger of skin sensitization	
MUL	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant	
MUL	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters	
CAN	US EPA - IRIS Carcinogens	(1986) Group B1 - Probable human Carcinogen	
CAN	IARC	Group 1 - Agent is Carcinogenic to humans	
CAN	CA EPA - Prop 65	Carcinogen	
CAN	US NIH - Report on Carcinogens	Known to be a human Carcinogen	
CAN	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels	
MAM	US EPA - EPCRA Extremely Hazardous Substances	Extremely Hazardous Substances	
CAN	GHS - Japan	H350 - May cause cancer [Carcinogenicity - Category 1A]	
CAN	GHS - Australia	H350i - May cause cancer by inhalation [Carcinogenicity - Category 1A or 1B]	
CAN	GHS - Korea	H350 - May cause cancer [Carcinogenicity - Category 1]	
CAN	EU - GHS (H-Statements) Annex 6 Table 3-1	H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]	
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]	
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]	
GEN	EU - GHS (H-Statements) Annex 6 Table 3-1	H341 - Suspected of causing genetic defects [Germ cell mutagenicity - Category 2]	
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]	
GEN	GHS - Japan	H341 - Suspected of causing genetic defects [Germ cell mutagenicity - Category 2]	
MAM	GHS - Japan	H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]	
SKI	GHS - Japan	H317 - May cause an allergic skin reaction [Skin sensitizer - Category 1]	

SKI	GHS - Australia	H314 - Causes severe skin burns and eye damage [Skin corrosion/irritation - Category 1A or 1B or 1C]	
SKI	GHS - Japan	H315 - Causes skin irritation [Skin corrosion / irritation - Category 2]	
SKI	GHS - Korea	H314 - Causes severe skin burns and eye damage [Skin corrosion/irritation - Category 1]	
AQU	GHS - Japan	H401 - Toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 2]	
MAM	GHS - Korea	H311 - Toxic in contact with skin [Acute toxicity (dermal) - Category 3]	
MAM	GHS - Korea	H301 - Toxic if swallowed [Acute toxicity (oral) - Category 3]	
MAM	Québec CSST - WHMIS 1988	Class D1A - Very toxic material causing immediate and serious toxic effects	
GEN	EU - Annex VI CMRs	Mutagen - Category 2	
MAM	GHS - Japan	H311 - Toxic in contact with skin [Acute Toxicity (dermal) - Category 3]	
MAM	GHS - Malaysia	H300 - Fatal if swallowed [Acute toxicity (oral) - Category 1 or 2]	
MAM	GHS - Malaysia	H311 - Toxic in contact with skin [Acute toxicity (dermal) - Category 3]	
MAM	GHS - Malaysia	H331 - Toxic if inhaled [Acute toxicity (inhalation) - Category 3]	
SKI	GHS - Malaysia	H314 - Causes severe skin burns and eye damage [Skin corrosion/irritation - Category 1A or 1B or 1C]	
EYE	GHS - Malaysia	H318 - Causes serious eye damage [Serious eye damage/eye irritation - Category 1]	
MAM	GHS - Australia	H301 - Toxic if swallowed [Acute toxicity (oral) - Category 3]	
MAM	GHS - Australia	H311 - Toxic in contact with skin [Acute toxicity (dermal) - Category 3]	
MAM	GHS - Korea	H330 - Fatal if inhaled [Acute toxicity (inhalation) - Category 2]	
PHY	GHS - Korea	H220 - Extremely flammable gas [Flammable gases - Category 1]	
SKI	GHS - Korea	H317 - May cause an allergic skin reaction [Skin sensitization - Category 1]	
PHY	Québec CSST - WHMIS 1988	Class B1 - Flammable gases	
MAM	GHS - Japan	H330 - Fatal if inhaled [Acute toxicity (inhalation: gas) - Category 2]	
PHY	GHS - Japan	H220 - Extremely flammable gas [Flammable gases - Category 1]	
CAN	GHS - Malaysia	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]	

AQU	GHS - Australia	H401 - Aquatic Acute 2 - Toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 2]
МАМ	GHS - Australia	H330 - Fatal if inhaled [Acute toxicity (inhalation) - Category 1 or 2]
ADDITIONAL LISTINGS	AGENCY	NOTIFICATION
RESTRICTED LIST	Perkins+Will (P+W)	P&W - Precautionary List
		Precautionary list of substances recommended for avoidance
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Footwear, Apparel & Jewelry Products
RESTRICTED LIST	International Living Future Institute (ILFI)	Living Building Challenge 4.0 - Red List of Materials & Chemicals
		Red List substances to avoid in Living Building Challenge V4.0 projects
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022
		Cosmetics & Personal Care Products

SUBSTANCE NOTES: This substance is undisclosed as it is proprietary.

WATER	%: 5.4000 - 5.6000
WAIER	%: 5.4000 - 5.6000

PRODUCT THRESHOLD: 100 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: No MATERIAL TYPE: Other: Natural resource

 $\label{eq:residuals} \textbf{RESIDUALS} \ \textbf{AND} \ \textbf{IMPURITIES} \ \textbf{NOTES:} \ \textbf{No} \ \textbf{data} \ \textbf{collected} \ \textbf{regarding} \ \textbf{this} \ \textbf{material.}$ 

OTHER MATERIAL NOTES: Weight percentage may vary as this HPD covers multiple products, i.e. with or without laminate. Standard water is used (municipal).

WATER ID: 7732-18-5

				15.7.02 10
HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	HAZARD SO	CREENING DATE:	2022-10-07 10:54:27
%: 100.0000	GreenScreen: BM-4	RC: None	NANO: No	SUBSTANCE ROLE: Humectant
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
None found			No warr	nings found on HPD Priority Hazard List
ADDITIONAL LISTINGS	AGENCY		NOTIFICATION	
EXEMPT	European Union / European Cor (EU EC)	mmission	EU - REACH Exe	emptions
	(20 20)		Exempted from safety	REACH Annex IV listing due to intrinsic
POSITIVE LIST	US Environmental Protection Ag	gency (US	US EPA - DfE S0	CIL
	Li Aj		Green Circle - Ve	erified Low Concern

SUBSTANCE NOTES: See materials notes for details.

**MELAMINE-CELLULOSE** %: 0.0000 - 3.2000

PRODUCT THRESHOLD: 100 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities are below the reporting threshold.

OTHER MATERIAL NOTES: Weight percentage may vary as this HPD covers multiple products, i.e. with or without laminate, and this material comes from multiple suppliers. The composition of this material is confidential.

U	NDISCLOSED					ID: Undisclosed
Н	AZARD DATA SOURCE:	Pharos Chemical and Materials Library	HAZARD SO	CREENING DATE:	2022-10-07 10:54:29	
%	o: 0.0000 - 65.0000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: F	Polymer species
	HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS		
		EC - CEPA DSL		Persistent		

ADDITIONAL LISTINGS	AGENCY	NOTIFICATION
RESTRICTED LIST	Perkins+Will (P+W)	P&W - Precautionary List
		Watch List
RESTRICTED LIST	International Living Future Institute (ILFI)	Living Building Challenge 4.0 - Red List of Materials & Chemicals
		Red List substances to avoid in Living Building Challenge V4.0 projects

UNDISCLOSED				ID: Undisclose
HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	HAZARD S	CREENING DATE:	2022-10-07 10:54:29
%: 0.0000 - 65.0000	GreenScreen: NoGS	RC: None	NANO: <b>No</b>	SUBSTANCE ROLE: Polymer species
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
None found			No warr	nings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	AGENCY		NOTIFICATION	
RESTRICTED LIST	International Living Future Instit	ute (ILFI)	Living Building ( Chemicals	Challenge 4.0 - Red List of Materials &
			Red List substar	nces to avoid in Living Building projects

SUBSTANCE NOTES: This substance is undisclosed as it is proprietary. Weight interval is used to account for the use of melamine

cellulose from multiple suppliers and to keep exact product recipes confidential.

HAZARD DATA SOURCE: Pr	naros Chemical and Materials Library	HAZARD SO	CREENING DATE:	2022-10-07 10:54:30
%: 21.0000 - 55.0000	GreenScreen: NoGS	RC: None	NANO: No	SUBSTANCE ROLE: Carrier
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
None found			No warni	ngs found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	AGENCY		NOTIFICATION	
EXEMPT	European Union / European Con	nmission	EU - REACH Exer	nptions
	(====,		Exempted from R safety	EACH Annex IV listing due to intrinsic
POSITIVE LIST	US Environmental Protection Ag	ency (US	US EPA - DfE SCI	L
	4		Green Circle - Ver	rified Low Concern

UNDISCLOSED

**ID: Undisclosed** 

UNDISCLOSED				ID: Undisclos
HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	HAZARD SO	CREENING DATE:	2022-10-07 10:54:31
%: 0.0000 - 35.0000	GreenScreen: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Polymer species
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
	EC - CEPA DSL		Persistent	
SKI	GHS - New Zealand		Skin sensitisatio	on category 1
ADDITIONAL LISTINGS	AGENCY		NOTIFICATION	
RESTRICTED LIST	Perkins+Will (P+W)		P&W - Precautio	onary List
			Precautionary lis	st of substances recommended for
RESTRICTED LIST	International Living Future Institu	ute (ILFI)	Living Building ( Chemicals	Challenge 4.0 - Red List of Materials &
			Red List substar Challenge V4.0 p	nces to avoid in Living Building projects
RESTRICTED LIST	International Living Future Institu	ute (ILFI)	Living Building ( Chemicals	Challenge 4.0 - Red List of Materials &
				stances Considered for Inclusion in the Challenge Red List

SUBSTANCE NOTES: This substance is undisclosed as it is proprietary. Weight interval is used to account for the use of melamine

cellulose from multiple suppliers and to keep exact product recipes confidential.

UNDISCLOSED				ID: Undisclose
HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	HAZARD SO	CREENING DATE:	2022-10-07 10:54:32
%: 0.0000 - 35.0000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Polymer species
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
None found			No warr	nings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	AGENCY		NOTIFICATION	
RESTRICTED LIST	Perkins+Will (P+W)		P&W - Precautio	onary List
			Precautionary lis	st of substances recommended for
RESTRICTED LIST	International Living Future Institu	ute (ILFI)	Living Building ( Chemicals	Challenge 4.0 - Red List of Materials &
			Red List substar	nces to avoid in Living Building projects

HAZARD DATA SOURCE: P	haros Chemical and Materials Library	HAZARD S	CREENING DATE:	2022-10-07 10:54:32
%: <b>0.0000 - 25.0000</b>	GreenScreen: LT-1	RC: None	NANO: <b>No</b>	SUBSTANCE ROLE: Opacifier
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
CAN	US CDC - Occupational Carcino	gens	Occupational Car	rcinogen
CAN	CA EPA - Prop 65		Carcinogen - speroute	cific to chemical form or exposure
CAN	IARC		Group 2B - Possil from occupationa	bly carcinogenic to humans - inhaled al sources
CAN	MAK			p 3A - Evidence of carcinogenic effec to establish MAK/BAT value
END	TEDX - Potential Endocrine Disr	uptors	Potential Endocri	ne Disruptor
CAN	MAK		Carcinogen Grou low risk under MA	p 4 - Non-genotoxic carcinogen with AK/BAT levels
CAN	EU - GHS (H-Statements) Annex	6 Table 3-1	H351 - Suspected Category 2]	d of causing cancer [Carcinogenicity
	EC - CEPA DSL		Persistent	
CAN	GHS - Japan		H351 - Suspected Category 2]	d of causing cancer [Carcinogenicity -
MAM	GHS - Japan		repeated exposur	amage to organs through prolonged or re [Specific target organs/systemic repeated exposure - Category 1]
CAN	EU - Annex VI CMRs		Carcinogen Cateo	gory 2 - Suspected human Carcinoge
ADDITIONAL LISTINGS	AGENCY		NOTIFICATION	
POSITIVE LIST	US Environmental Protection Ag	ency (US	US EPA - DfE SCI	IL
			Green Circle - Ver	rified Low Concern
RESTRICTED LIST	Cradle to Cradle Products Innov Institute (C2CPII)	ation		Product Standard Restricted RSL) - Effective July 1, 2022
			Cosmetics & Pers	sonal Care Products

SUBSTANCE NOTES: This substance is undisclosed as it is proprietary. Weight interval is used to account for the use of melamine cellulose from multiple suppliers and to keep exact product recipes confidential.

UNDISCLOSED					ID: Undisclosed
HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	HAZARD SCRE	EENING DATE:	2022-10-07 10:54:33	
%: 0.0000 - 15.0000	GreenScreen: BM-4	RC: None	NANO: <b>No</b>	SUBSTANCE ROLE	: Solvent

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	AGENCY	NOTIFICATION
EXEMPT	European Union / European Commission (EU EC)	EU - REACH Exemptions
	(20 20)	Exempted from REACH Annex IV listing due to intrinsic safety
POSITIVE LIST	US Environmental Protection Agency (US EPA)	US EPA - DfE SCIL
	LFAJ	Green Circle - Verified Low Concern

UNDISCLOSED				ID	Undisclosed
HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	HAZARD S	CREENING DATE:	2022-10-07 10:54:33	
%: 0.0000 - 3.0000	GreenScreen: LT-P1	RC: None	NANO: <b>No</b>	SUBSTANCE ROLE: Pla	asticizer
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS		
END	TEDX - Potential Endocrine Disr	uptors	Potential Endoc	rine Disruptor	
EYE	GHS - New Zealand		Eye irritation cat	egory 2	
	EC - CEPA DSL		Persistent		
MAM	GHS - New Zealand		Acute inhalation	toxicity category 3	
ADDITIONAL LISTINGS	AGENCY		NOTIFICATION		
RESTRICTED LIST	Perkins+Will (P+W)		P&W - Precautio	onary List	
			Precautionary lis	st of substances recommend	ded for
RESTRICTED LIST	International Living Future Instit	ute (ILFI)	Living Building ( Chemicals	Challenge 4.0 - Red List of N	laterials &
			Red List substar Challenge V4.0 բ	nces to avoid in Living Build projects	ing

SUBSTANCE NOTES: This substance is undisclosed as it is proprietary. Weight interval is used to account for the use of melamine cellulose from multiple suppliers and to keep exact product recipes confidential.

UNDISCLOSED					ID: Undisclosed
HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	HAZARD SCF	REENING DATE:	2022-10-07 10:54:34	
%: <b>0.0000 - 2.5000</b>	GreenScreen: LT-1	RC: None	NANO: No	SUBSTANCE ROLE	: Plasticizer

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
EYE	GHS - New Zealand	Eye irritation category 2
MAM	GHS - New Zealand	Specific target organ toxicity - repeated exposure category 1
МАМ	GHS - Japan	H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]
SKI	GHS - Japan	H315 - Causes skin irritation [Skin corrosion / irritation - Category 2]
ADDITIONAL LISTINGS	AGENCY	NOTIFICATION
None found		No listings found on Additional Hazard Lists

**SCAVENGER** %: 0.7000 - 0.8000

PRODUCT THRESHOLD: 100 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes MATERIAL TYPE: Animal-Based Material

RESIDUALS AND IMPURITIES NOTES: Residuals are below the reporting threshold, while there are no impurities present in this material.

OTHER MATERIAL NOTES: Weight percentage may vary as this HPD covers multiple products, i.e. with or without laminate, and this material has multiple suppliers. This product is on the US FDA's GRAS (GENERALLY REGARDED AS SAFE) list.

UREA				ID: <b>57</b> -
HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	HAZARD SC	REENING DATE:	2022-10-07 10:54:26
%: 98.5000 - 100.0000	GreenScreen: LT-UNK	RC: None	NANO: <b>No</b>	SUBSTANCE ROLE: Scavenger
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
EYE	GHS - New Zealand		Eye irritation cate	egory 2
ADDITIONAL LISTINGS	AGENCY		NOTIFICATION	
POSITIVE LIST	US Environmental Protection Ag	ency (US	US EPA - DfE SCI	IL
			Green Circle - Vei	rified Low Concern

SUBSTANCE NOTES: See materials notes for details.

WAX %: 0.3000

RESIDUALS AND IMPURITIES NOTES: Suppliers declared, backed by technical/scientific knowledge, that no residuals or impurities were present in their product; however, no such 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: Slack wax is used as water repellant. Data Source for TSCA Definition 2018: A complex combination of hydrocarbons obtained from a petroleum fraction by solvent crystallization (solvent dewaxing) or as a distillation fraction from a very waxy

crude. It consists predominantly of saturated straight and branched chain hydrocarbons having carbon numbers predominantly greater than C20.

SLACK WAX (PETROLEU	M)			ID: 64742-61-6
HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	HAZARD S	CREENING DATE:	2022-10-07 10:54:26
%: 100.0000	GreenScreen: LT-1	RC: None	NANO: <b>No</b>	SUBSTANCE ROLE: Water resistance
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
CAN	EU - REACH Annex XVII CMRs		_	egory 2 - Substances which should be ney are Carcinogenic to man
CAN	EU - Annex VI CMRs		Carcinogen Cato	egory 1B - Presumed Carcinogen based nce
MUL	ChemSec - SIN List		CMR - Carcinog Toxicant	gen, Mutagen &/or Reproductive
MUL	German FEA - Substances Haza Waters	ardous to	Class 3 - Severe	e Hazard to Waters
CAN	GHS - Australia		H350 - May cau 1A or 1B]	se cancer [Carcinogenicity - Category
CAN	EU - GHS (H-Statements) Annex	6 Table 3-1	H350 - May cau 1A or 1B]	se cancer [Carcinogenicity - Category
	EC - CEPA DSL		Persistent	
DEV	GHS - Australia		•	cted of damaging the unborn child oxicity - Category 2]
ADDITIONAL LISTINGS	AGENCY		NOTIFICATION	
None found			No	listings found on Additional Hazard Lists

SUBSTANCE NOTES: See materials notes for details.

CATALYST	%: 0.1000	
PRODUCT THRESHOLD: 100	RESIDUALS AND IMPURITIES EVALUATION COMPLETED:	MATERIAL TYPE: Other: Inorganic sulfate
ppm	Yes	salt

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: Some substances fall below the reportable thershold, and are not reported in the content inventory.

AMMONIUM SULFATE ID: 7783-20-2

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	HAZARD SO	CREENING DATE:	2022-10-07 10:54:28	
%: 98.0000 - 99.0000	GreenScreen: LT-P1	RC: None	NANO: <b>No</b>	SUBSTANCE ROLE: Catalyst	
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS		
END	TEDX - Potential Endocrine Disr	TEDX - Potential Endocrine Disruptors		Potential Endocrine Disruptor	
	EC - CEPA DSL		Persistent		
ADDITIONAL LISTINGS	AGENCY		NOTIFICATION		
RESTRICTED LIST	Cradle to Cradle Products Innov Institute (C2CPII)	ation		Product Standard Restricted (RSL) - Effective July 1, 2022	
			Biological and E	nvironmentally Released Materials	

SUBSTANCE NOTES: See materials notes for details.

# 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.

**EXPIRY DATE:** 

#### **VOC EMISSIONS**

### CDPH Standard Method V1.2 (Section 01350/CHPS) - Not applicable

CERTIFYING PARTY: Self-declared

ISSUE DATE: 2022-09-27

CERTIFIER OR LAB: n/a

APPLICABLE FACILITIES: All facilities

**CERTIFICATE URL:** 

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

#### SUSTAINABLE FORESTRY

#### FSC Certification - Chain of Custody (COC)

**CERTIFYING PARTY: Third Party** 

ISSUE DATE: 2017-11-06

CERTIFIER OR LAB: NEPCon

APPLICABLE FACILITIES: Uniboard Canada Inc. - Multi-

EXPIRY DATE: 2022-11-05

Site

CERTIFICATE URL: https://info.fsc.org

CERTIFICATION AND COMPLIANCE NOTES: Certificate resgistration code NC-COC-002726 NC-CW-002726

#### FORMALDEHYDE EMISSIONS

EPA TSCA Title VI (40 CFR 770), CAN/CSA-0160-16, ANSI A208.1 and CARB Composite Wood ATCM CA 93120 Ultra Low-Emitting Formaldehyde (ULEF)

**CERTIFYING PARTY: Third Party** 

ISSUE DATE: 2019-03-21

**CERTIFIER OR LAB: Composite** 

APPLICABLE FACILITIES: Sayabec, Quebec, Canada,

**EXPIRY DATE:** 

Panel Association

**CERTIFICATE URL:** 

G0J 3K0

https://www.compositepanel.org/testing-

certification/certification-programs/

CERTIFICATION AND COMPLIANCE NOTES: Fulfills The Requirements Of: EPA TSCA Title VI (40 CFR 770), CAN/CSA-0160- 16, ANSI A208.1 and California Air Resources Board (CARB) Airborne Toxic Control Measures (ATCM) 93120. State of California Air Resources Board Executive Order N-18-035 (https://www.arb.ca.gov/toxics/compwood/naf\_ulef/listofnaf\_ulef.htm).

### **MULTI-ATTRIBUTE**

### CPA 4-19 Eco-Certified Composite (ECC) - Value Added Certification

CERTIFYING PARTY: Second Party

ISSUE DATE: 2019-03-05

CERTIFIER OR LAB: Composite

APPLICABLE FACILITIES: Sayabec, Quebec, Canada,

**EXPIRY DATE: Panel Association** 

G0J 3K0

**CERTIFICATE URL:** 

https://www.compositepanel.org/testing-

certification/certification-programs/

CERTIFICATION AND COMPLIANCE NOTES: Carbon Footprint; Locally Sourced Fiber; Recycled, Recovered or Post-Consumer Fiber Content; Sustainable Use of Wood Fiber; Responsible Wood Sourcing.



### 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



#### MANUFACTURER INFORMATION

MANUFACTURER: Uniboard Canada Inc. ADDRESS: 5555, Ernest Cormier Street

Laval Quebec H7C 2S9, Canada

WEBSITE: www.uniboard.com

CONTACT NAME: Pierre Martin

TITLE: Technology and Innovation Director

PHONE: 450.664.6000

EMAIL: pierre.martin@uniboard.com

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

#### **KEY**

**Hazard Types** 

**AQU** Aquatic toxicity

**CAN** Cancer

**DEV** Developmental toxicity

END Endocrine activity

EYE Eye irritation/corrosivity

**GEN** Gene mutation

**GLO** Global warming

LAN Land toxicity

MAM Mammalian/systemic/organ toxicity

MUL Multiple

**NEU** Neurotoxicity

NF Not found on Priority Hazard Lists

**OZO** Ozone depletion

PBT Persistent, bioaccumulative, and toxic

PHY Physical hazard (flammable or reactive)

**REP** Reproductive

**RES** Respiratory sensitization

SKI Skin sensitization/irritation/corrosivity

**UNK** Unknown

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)

BM-3 Benchmark 3 (use but still opportunity for improvement)

BM-2 Benchmark 2 (use but search for safer substitutes)

BM-1 Benchmark 1 (avoid - chemical of high concern)

BM-U Benchmark Unspecified (due to insufficient data)

LT-P1 List Translator Possible 1 (Possible Benchmark-1)

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

LT-UNK List Translator Benchmark Unknown

NoGS No GreenScreen.

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

#### **Recycled Types**

PreC Pre-consumer recycled content

PostC Post-consumer recycled content

UNK Inclusion of recycled content is unknown

None Does not include recycled content

### Other Terms:

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

#### **Inventory Methods:**

Nested Method / Material Threshold Substances listed within each material per threshold indicated per material Nested Method / Product Threshold Substances listed within each material per threshold indicated per product

Basic Method / Product Threshold Substances listed individually per threshold indicated per product

Nano Composed of nano scale particles or nanotechnology

Third Party Verified Verification by independent certifier approved by HPDC

Preparer Third party preparer, if not self-prepared by manufacturer

Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:

- a method for the assessment of exposure or risk associated with product handling or use,
- a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.