

CLASSIFICATION: 06 00 00 Wood, Plastics, and Composites

created via: HPDC Online Builder

PRODUCT DESCRIPTION: Vesta is a specialty brand for panels manufactured using an ultra low emitting formaldehyde (ULEF) resin system. This makes it the optimal choice for additional LEED points and other ULEF specified projects. Along with our other panel products, VESTA is made with 100% recycled and/or recovered wood fiber, and is an ECC™ (Eco-Certified Composite) sustainably certified product. Our VESTA panels are available in a wide range of thicknesses and dimensions, and can be raw or TFL finished with your choice of design from the PRISM collection.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

- Nested Materials Method
 Basic Method

Threshold Disclosed Per

- Material
 Product

Threshold level

- 100 ppm
 1,000 ppm
 Per GHS SDS
 Per OSHA MSDS
 Other

Residuals/Impurities

- Considered
 Partially Considered
 Not Considered

Explanation(s) provided for Residuals/Impurities?

- Yes No

Are All Substances Above the Threshold Indicated:

Characterized
Percent Weight and Role Provided? Yes No

Screened
Using Priority Hazard Lists with Results Disclosed? Yes No

Identified
Name and Identifier Provided? Yes No

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

ARAUCO NA MDF - VESTA ULEF [CELLULOSE, MICROCRYSTALLINE
NoGS MELAMINE-UREA-FORMALDEHYDE (MUF) LT-UNK UREA LT-UNK
UNDISCLOSED CHEMICAL #1 BM-4 UNDISCLOSED CHEMICAL #2 LT-1 |
CAN | MUL UNDISCLOSED CHEMICAL #3 NoGS UNDISCLOSED CHEMICAL
#4 LT-P1 | MAM | SKI | RES | END AMMONIUM CHLORIDE LT-P1 | MAM |
EYE | END]

Number of Greenscreen BM-4/BM3 contents..... 1
Contents highest concern GreenScreen
Benchmark or List translator Score..... LT-1
Nanomaterial..... No

INVENTORY AND SCREENING NOTES:

This HPD includes the following substrates: Trupan Vesta ULEF, Trupan Vesta Lite ULEF, Trupan VESTA Plus ULEF, Trupan Vesta Custom ULEF, Fibrex VESTA ULEF, Fibrex Vesta Plus ULEF. Ingredient names undisclosed on HPD are considered proprietary.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

Formaldehyde emissions: CARB ULEF Executive Order N-17-140 - Vesta - Malvern, AR
Formaldehyde emissions: CARB ULEF Executive Order N-17-145 Vesta - Bennettsville, SC (MDF)
Formaldehyde emissions: CARB ULEF Executive Order N-16-132 Vesta - Sault Ste. Marie, ON
Formaldehyde emissions: CARB ULEF Executive Order N-16-126 Vesta - St. Stephen, NB (MDF)

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed

Third Party Verified?

- Yes
 No

PREPARER: Self-Prepared
VERIFIER: SCS Global Services
VERIFICATION #: qGE-3359

SCREENING DATE: 2017-08-18
PUBLISHED DATE: 2018-01-29
EXPIRY DATE: 2020-08-18

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 2.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-standard

ARAUCO NA MDF - VESTA ULEF

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: ARAUCO NA worked with an HPD Third Party Preparer to confirm that all residual and impurities have been considered during the preparation of this HPD.

OTHER PRODUCT NOTES:

CELLULOSE, MICROCRYSTALLINE

ID: 9004-34-6

#: 82.0000 - 93.0000 GS: NoGS RC: None NANO: No ROLE: Structural Component

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

MELAMINE-UREA-FORMALDEHYDE (MUF)

ID: 25036-13-9

#: 7.0000 - 17.0000 GS: LT-UNK RC: None NANO: No ROLE: Resin

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

UREA

ID: 57-13-6

#: 0.8000 - 3.0000 GS: LT-UNK RC: None NANO: No ROLE: Scavenger

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

UNDISCLOSED CHEMICAL #1

ID: Undisclosed

%: 0.1250 - 1.0200

GS: BM-4

RC: None

NANO: No

ROLE: Water Repellent

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: This chemical has been identified and screened by Arauco's HPD Third Party Preparer. Due to its propriety nature, this chemical and its CAS# were not able to be disclosed on this HPD. The GreenScreen Benchmark® assessment score of BM-4 was provided through the HPD 2.1 Builder Tool.

UNDISCLOSED CHEMICAL #2

ID: **Undisclosed**

%: 0.1000 - 0.8500

GS: LT-1

RC: None

NANO: No

ROLE: Water Repellent

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

EU - R-phrases

R45 - May cause cancer

CANCER

EU - GHS (H-Statements)

H350 - May cause cancer

CANCER

EU - REACH Annex XVII CMRs

Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man

MULTIPLE

ChemSec - SIN List

CMR - Carcinogen, Mutagen &/or Reproductive Toxicant

RESTRICTED LIST

German FEA - Substances Hazardous to Waters

Class 3 - Severe Hazard to Waters

CANCER

EU - Annex VI CMRs

Carcinogen Category 1B - Presumed Carcinogen based on animal evidence

CANCER

Australia - GHS

H350 - May cause cancer

SUBSTANCE NOTES: This chemical has been identified and screened by Arauco's HPD Third Party Preparer. Due to its propriety nature, this chemical and its CAS# were not able to be disclosed on this HPD.

UNDISCLOSED CHEMICAL #3

ID: **Undisclosed**

%: 0.0010 - 0.0850

GS: NoGS

RC: None

NANO: No

ROLE: Water Repellent

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: This chemical has been identified and screened by Arauco's HPD Third Party Preparer. Due to its propriety nature, this chemical and its CAS# were not able to be disclosed on this HPD.

UNDISCLOSED CHEMICAL #4

ID: **Undisclosed**

%: 0.0005 - 0.0260

GS: LT-P1

RC: None

NANO: No

ROLE: Water Repellent

HAZARDS:

AGENCY(IES) WITH WARNINGS:

MAMMALIAN

EU - R-phrases

R20 - Harmful by Inhalation (gas or vapor or dust/mist)

MAMMALIAN

EU - R-phrases

R21 - Harmful in Contact with Skin

| | | |
|-----------------|---------------------------------------|---|
| MAMMALIAN | EU - R-phrases | R22 - Harmful if Swallowed |
| SKIN IRRITATION | EU - R-phrases | R34 - Causes burns |
| RESPIRATORY | AOEC - Asthmagens | Asthmagen (Rs) - sensitizer-induced |
| SKIN IRRITATION | EU - GHS (H-Statements) | H314 - Causes severe skin burns and eye damage |
| ENDOCRINE | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor |
| SKIN SENSITIZE | MAK | Sensitizing Substance Sh - Danger of skin sensitization |

SUBSTANCE NOTES: This chemical has been identified and screened by Arauco's HPD Third Party Preparer. Due to its propriety nature, this chemical and its CAS# were not able to be disclosed on this HPD.

AMMONIUM CHLORIDE

ID: 12125-02-9

#: **0.0000 - 0.4000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Catalyst**

HAZARDS: AGENCY(IES) WITH WARNINGS:

| | | |
|----------------|---------------------------------------|--------------------------------------|
| MAMMALIAN | EU - R-phrases | R22 - Harmful if Swallowed |
| EYE IRRITATION | EU - R-phrases | R36 - Irritating to eyes |
| EYE IRRITATION | EU - GHS (H-Statements) | H319 - Causes serious eye irritation |
| ENDOCRINE | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor |

SUBSTANCE NOTES:

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.

FORMALDEHYDE EMISSIONS

CARB ULEF Executive Order N-17-140 - Vesta - Malvern, AR

| | | | |
|---|------------------------|-------------------------|--|
| CERTIFYING PARTY: Third Party | ISSUE DATE: 2017-04-12 | EXPIRY DATE: 2019-04-12 | CERTIFIER OR LAB: California Air Resources Board |
| APPLICABLE FACILITIES: ARAUCO North America - Malvern, Arkansas | | | |
| CERTIFICATE URL: https://www.arb.ca.gov/toxics/compwood/naf_ulef/n140.pdf | | | |
| CERTIFICATION AND COMPLIANCE NOTES: | | | |

FORMALDEHYDE EMISSIONS

CARB ULEF Executive Order N-17-145 Vesta - Bennettsville, SC (MDF)

| | | | |
|---|------------------------|-------------------------|--|
| CERTIFYING PARTY: Third Party | ISSUE DATE: 2017-05-23 | EXPIRY DATE: 2019-05-23 | CERTIFIER OR LAB: California Air Resources Board |
| APPLICABLE FACILITIES: ARAUCO North America - | | | |

ARAUCO NA MDF - Vesta ULEF
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Bennettsville, South Carolina (MDF)

CERTIFICATE URL:

https://www.arb.ca.gov/toxics/compwood/naf_ulef/n145.pdf

CERTIFICATION AND COMPLIANCE NOTES:

FORMALDEHYDE EMISSIONS

CARB ULEF Executive Order N-16-132 Vesta - Sault Ste. Marie, ON

CERTIFYING PARTY: Third Party

ISSUE DATE:2016-

EXPIRY DATE: 2018-

CERTIFIER OR LAB: California Air

APPLICABLE FACILITIES: ARAUCO North America - Sault Ste.

11-01

11-01

Resources Board

Marie, Ontario

CERTIFICATE URL:

https://www.arb.ca.gov/toxics/compwood/naf_ulef/n132.pdf

CERTIFICATION AND COMPLIANCE NOTES:

FORMALDEHYDE EMISSIONS

CARB ULEF Executive Order N-16-126 Vesta - St. Stephen, NB (MDF)

CERTIFYING PARTY: Third Party

ISSUE DATE:2016-

EXPIRY DATE: 2018-

CERTIFIER OR LAB: California Air

APPLICABLE FACILITIES:

07-15

07-15

Resources Board

CERTIFICATE URL:

https://www.arb.ca.gov/toxics/compwood/naf_ulef/n126.pdf

CERTIFICATION AND COMPLIANCE NOTES:

COMPOSITE WOOD

ECC - Eco-certified Composite Grademark Program - Malvern, AR

CERTIFYING PARTY: Third Party

ISSUE DATE:2016-05-

EXPIRY DATE:

CERTIFIER OR LAB: Composite

APPLICABLE FACILITIES: ARAUCO North America -

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Panel Association

Malvern, Arkansas

CERTIFICATE URL:

<https://www.arauco.cl/na/sostenibilidad/certificaciones/>

CERTIFICATION AND COMPLIANCE NOTES: Has Completed and Fulfilled the Requirements of: CPA 4-11 Eco-Certified Composites (ECC) Sustainability Standard and California Air Resources Board (CARB) Airborne Toxic Control Measure (ATCM) 93120

SCOPE OF CERTIFICATION: MDF. Eco-attributes: Carbon Footprint; Locally Sourced Fiber; Recycled, Recovered or Post-Consumer Fiber Content,Responsible Wood Sourcing.

COMPOSITE WOOD

ECC - Eco-certified Composite Grademark Program - Bennettsville, SC (MDF)

CERTIFYING PARTY: Third Party

ISSUE DATE:2016-05-

EXPIRY DATE:

CERTIFIER OR LAB: Composite

APPLICABLE FACILITIES: ARAUCO North America -

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Panel Association

Bennettsville, South Carolina (MDF)

CERTIFICATE URL:

<https://www.arauco.cl/na/sostenibilidad/certificaciones/>

CERTIFICATION AND COMPLIANCE NOTES: Has Completed and Fulfilled the Requirements of: CPA 4-11 Eco-Certified Composites (ECC) Sustainability Standard and California Air Resources Board (CARB) Airborne Toxic Control Measure (ATCM) 93120. SCOPE OF CERTIFICATION: MDF.ECO-ATTRIBUTES: Carbon Footprint; Locally Sourced Fiber; Recycled,

Recovered or Post-Consumer Fiber Content, Responsible Wood Sourcing.

COMPOSITE WOOD

ECC - Eco-certified Composite Grademark Program - Sault Ste. Marie, ON

CERTIFYING PARTY: Third Party
 APPLICABLE FACILITIES: ARAUCO North America - Sault Ste. Marie, Ontario
 CERTIFICATE URL: <https://www.arauco.cl/na/sostenibilidad/certificaciones/>
 CERTIFICATION AND COMPLIANCE NOTES: Has Completed and Fulfilled the Requirements of: CPA 4-11 Eco-Certified Composites (ECC) Sustainability Standard and California Air Resources Board (CARB) Airborne Toxic Control Measure (ATCM) 93120
 SCOPE OF CERTIFICATION: MDF. ECO-ATTRIBUTES: Carbon Footprint; Recycled, Recovered or Post-Consumer Fiber Content; Responsible Wood Sourcing.

ISSUE DATE: 2016-05-19
 EXPIRY DATE:

CERTIFIER OR LAB: Composite Panel Association

COMPOSITE WOOD **ECC - Eco-certified Composite Grademark Program - St. Stephen, NB (MDF)**

CERTIFYING PARTY: Third Party
 APPLICABLE FACILITIES: ARAUCO North America - St. Stephen, New Brunswick (MDF)
 CERTIFICATE URL: <https://www.arauco.cl/na/sostenibilidad/certificaciones/>
 CERTIFICATION AND COMPLIANCE NOTES: Has Completed and Fulfilled the Requirements of: CPA 4-11 Eco-Certified Composites (ECC) Sustainability Standard and California Air Resources Board (CARB) Airborne Toxic Control Measure (ATCM) 93120
 SCOPE OF CERTIFICATION: Thin MDF. ECO-ATTRIBUTES: Locally Sourced Fiber; Recycled, Recovered or Post-Consumer Fiber Content; Responsible Wood Sourcing.

ISSUE DATE: 2016-05-19
 EXPIRY DATE:

CERTIFIER OR LAB: Composite Panel Association

MANAGEMENT **ISO 14001 – Environmental Management System and OHSAS 18001 – Safety Management System**

CERTIFYING PARTY: Third Party
 APPLICABLE FACILITIES: Bennettsville, SC; Fort Mill, SC; Eugene, OR; Albany, OR; Malvern, AR; Sault Ste. Marie, ON; St. Stephen, NB; Moncure, NC, Biscoe, NC
 CERTIFICATE URL: <https://www.arauco.cl/na/sostenibilidad/certificaciones/>
 CERTIFICATION AND COMPLIANCE NOTES: Lloyd's Register Quality Assurance approved the above facilities to the ISO 14001:2004 and OHSAS 18001:2007 Management Systems. These Management Systems are applicable to the manufacturer of a diverse line of composite panel products.

ISSUE DATE: 2017-12-21
 EXPIRY DATE: 2020-12-20

CERTIFIER OR LAB: Lloyd's Register Quality Assurance

OTHER **Forest Stewardship Council® - FSC Chain of Custody and Controlled Wood**

CERTIFYING PARTY: Third Party
 APPLICABLE FACILITIES: As a multi-site certificate, the activities and products included in the scope of this certificate are performed by a network of participating sites (all ARAUCO NA manufacturing facilities). Products offered, shipped or sold by the certificate holder can only be considered covered by the scope of this certificate when the required FSC claim is clearly stated on invoices and shipping documents and must be stated on the customer PO in order to receive as such.
 CERTIFICATE URL: <https://www.arauco.cl/na/sostenibilidad/certificaciones/>

ISSUE DATE: 2013-09-23
 EXPIRY DATE: 2018-09-22

CERTIFIER OR LAB: Rainforest Alliance

CERTIFICATION AND COMPLIANCE NOTES: Certificate Type: Multi-site Chain of Custody and Controlled Wood; Standard(s): FSC-ARAUCO NA MDF - Vesta ULEF
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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

Ingredient percentages are expressed in terms of dry weight basis and represent average production values across multiple mills. Safety Data Sheets (SDS) in GHS format can be found at www.arauco.cl/na/. ToxServices LLC considered all residuals and impurities identified for the ingredients of this product. Models covered under HPD:Trupan Vesta ULEF, Trupan Vesta Lite ULEF, Trupan VESTA Plus ULEF, Trupan Vesta Custom ULEF, Fibrex VESTA ULEF, Fibrex Vesta Plus ULEF. Variations within group: These products are offered in a variety of thickness and panel sizes. Variations within this group include dosing percentages for wood, resin and other additives, due to process variation from mill to mill and optimization of recipes for targeted panel properties.

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: **Arauco North America**

ADDRESS: **400 Perimeter Center Terrace, Suite 750
Atlanta GA 30346, USA**

WEBSITE: **<https://www.arauco.cl/na/>**

CONTACT NAME: **Kerry Little**

TITLE: **Corporate Sustainability Manager**

PHONE: **506-465-2975**

EMAIL: **kerry.little@arauco-na.com**

KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet

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

Hazard Types

AQU Aquatic toxicity

CAN Cancer

DEV Developmental toxicity

END Endocrine activity

EYE Eye irritation/corrosivity

GEN Gene mutation

GLO Global warming

MAM Mammalian/systemic/organ toxicity

MUL Multiple hazards

NEU Neurotoxicity

OZO Ozone depletion

PBT Persistent Bioaccumulative Toxic

PHY Physical Hazard (reactive)

REP Reproductive toxicity

RES Respiratory sensitization

SKI Skin sensitization/irritation/corrosivity

LAN Land Toxicity

NF Not found on Priority Hazard Lists

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 (insufficient data to benchmark)

LT-P1 List Translator Possible Benchmark 1
LT-1 List Translator Likely Benchmark 1
LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
NoGS Unknown (no data on List Translator Lists)

Recycled Types

PreC Preconsumer (Post-Industrial)
PostC Postconsumer
Both Both Preconsumer and Postconsumer
Unk Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms

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.