

CLASSIFICATION: 06 00 00 Wood, Plastics, and Composites

created via: HPDC Online Builder

PRODUCT DESCRIPTION: VESTA NAF panels are produced using no added formaldehyde resin and 100% recycled and/or recovered wood fiber, and are ECC™ (Eco-Certified Composite) sustainably certified products. These panels meet or exceed the requirements for ANSI MR10. Our highest grade of moisture resistance is available in VESTA MR50 NAF. These panels meet or exceed the requirements for ANSI MR50, making them ideal products for high moisture areas.

**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 NAF, MR50 NAF [ CELLULOSE, MICROCRYSTALLINE NoGS POLYMERIC MDI (PMDI) LT-UNK | RES | MUL | CAN METHYLENE BISPHENYL DIISOCYANATE (PURE MDI) LT-UNK | MAM | EYE | SKI | CAN | RES | MUL SLACK WAX (PETROLEUM) LT-1 | CAN | MUL DIPHENYLMETHANE-2,4'- DIISOCYANATE (2,4'-MDI) LT-UNK | MAM | EYE | SKI | CAN | RES | MUL UNDISCLOSED CHEMICAL #1 BM-4 UNDISCLOSED CHEMICAL #2 LT-UNK UNDISCLOSED CHEMICAL #3 LT-P1 | MUL UNDISCLOSED CHEMICAL #4 LT-UNK ]

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 NAF, Trupan Vesta MR50. 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 NAF Executive Order N-16-185 Vesta - Eugene, OR  
Composite Wood: ECC - Eco-certified Composite Grademark Program - Eugene, OR  
Management: ISO 14001 – Environmental Management System and OHSAS 18001 – Safety Management System  
Other: Forest Stewardship Council® - FSC Chain of Custody and Controlled Wood

**CONSISTENCY WITH OTHER PROGRAMS**

No pre-checks completed or disclosed

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared  
VERIFIER: SCS Global Services  
VERIFICATION #: qGE-3361

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](http://www.hpd-collaborative.org/hpd-2-1-standard)

### ARAUCO NA MDF - VESTA NAF, MR50 NAF

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

#: 92.0000 - 96.0000 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:

#### POLYMERIC MDI (PMDI)

ID: 9016-87-9

#: 1.5000 - 6.0000 GS: LT-UNK RC: None NANO: No ROLE: Resin

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (G) - generally accepted

RESTRICTED LIST

US EPA - PPT Chemical Action Plans

EPA Chemical of Concern - Action Plan published

RESPIRATORY

US EPA - PPT Chemical Action Plans

Inhalation sensitizer causing asthma and lung damage

CANCER

MAK

Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

RESPIRATORY

MAK

Sensitizing Substance Sah - Danger of airway & skin sensitization

SUBSTANCE NOTES:

#### METHYLENE BISPHENYL DIISOCYANATE (PURE MDI)

ID: 101-68-8

#: 0.7500 - 3.6000 GS: LT-UNK RC: None NANO: No ROLE: Resin

HAZARDS:

AGENCY(IES) WITH WARNINGS:

MAMMALIAN	EU - R-phrases	R20 - Harmful by Inhalation (gas or vapor or dust/mist)
EYE IRRITATION	EU - R-phrases	R36 - Irritating to eyes
SKIN IRRITATION	EU - R-phrases	R38 - Irritating to skin
CANCER	EU - R-phrases	R40 - Limited Evidence of Carcinogenic Effects
RESPIRATORY	EU - R-phrases	R42 - May cause sensitization by inhalation
SKIN SENSITIZE	EU - R-phrases	R43 - May cause sensitization by skin contact
ORGAN TOXICANT	EU - R-phrases	R48: Danger of serious damage to health by prolonged exposure.
RESPIRATORY	AOEC - Asthmagens	Asthmagen (G) - generally accepted
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
RESPIRATORY	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
RESPIRATORY	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization

SUBSTANCE NOTES:

## SLACK WAX (PETROLEUM)

ID: 64742-61-6

%: <b>0.4000 - 1.0000</b>	GS: <b>LT-1</b>	RC: <b>None</b>	NANO: <b>No</b>	ROLE: <b>Water Repellent</b>
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	
MULTIPLE	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	

**DIPHENYLMETHANE-2,4'- DIISOCYANATE (2,4'-MDI )**

ID: 5873-54-1

#: **0.1750 - 0.7800**      GS: **LT-UNK**      RC: **None**      NANO: **No**      ROLE: **Resin**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
MAMMALIAN	EU - R-phrases	R20 - Harmful by Inhalation (gas or vapor or dust/mist)
EYE IRRITATION	EU - R-phrases	R36 - Irritating to eyes
SKIN IRRITATION	EU - R-phrases	R38 - Irritating to skin
CANCER	EU - R-phrases	R40 - Limited Evidence of Carcinogenic Effects
RESPIRATORY	EU - R-phrases	R42 - May cause sensitization by inhalation
SKIN SENSITIZE	EU - R-phrases	R43 - May cause sensitization by skin contact
ORGAN TOXICANT	EU - R-phrases	R48: Danger of serious damage to health by prolonged exposure.
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
RESPIRATORY	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
RESPIRATORY	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage

SUBSTANCE NOTES:

**UNDISCLOSED CHEMICAL #1**

ID: **Undisclosed**

#: **0.1619 - 0.3238**      GS: **BM-4**      RC: **None**      NANO: **No**      ROLE: **Release Agent**

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**

#: **0.0627 - 0.1254**      GS: **LT-UNK**      RC: **None**      NANO: **No**      ROLE: **Release Agent**

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 #3**

ID: **Undisclosed**

#: **0.0169 - 0.0337**

GS: **LT-P1**

RC: **None**

NANO: **No**

ROLE: **Release Agent**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESTRICTED LIST

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

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**

#: **0.0066 - 0.0132**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Release Agent**

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.

**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 NAF Executive Order N-16-185 Vesta - Eugene, OR**

CERTIFYING PARTY: Third Party  
APPLICABLE FACILITIES: ARAUCO North America - Eugene, Oregon

ISSUE DATE: 2016-05-23

EXPIRY DATE: 2018-05-23

CERTIFIER OR LAB: California Air Resources Board

CERTIFICATE URL:  
[https://www.arb.ca.gov/toxics/compwood/naf\\_ulef/n185.pdf](https://www.arb.ca.gov/toxics/compwood/naf_ulef/n185.pdf)

CERTIFICATION AND COMPLIANCE NOTES:

**COMPOSITE WOOD**

**ECC - Eco-certified Composite Grademark Program - Eugene, OR**

CERTIFYING PARTY: Third Party  
APPLICABLE FACILITIES: ARAUCO North America - Eugene, Oregon

ISSUE DATE: 2016-06-07

EXPIRY DATE:

CERTIFIER OR LAB: Composite Panel Association

ARAUCO NA MDF - Vesta NAF, MR50 NAF  
hpdrepository.hpd-collaborative.org

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.

## 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/>

ISSUE DATE: 2017-12-21

EXPIRY DATE: 2020-12-20

CERTIFIER OR LAB: Lloyd's Register Quality Assurance

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.

## 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-STD-40-003 V1-0; FSC-STD-40-004 V2-1; FSC-STD-40-005 V2-1; Product group(s): MDF, MDF with laminate; Particleboard, particleboard with laminate; Valid from 23 September 2013 to 22 September 2018; Certificate Registration Code: RA-COC-000444, RA-CW-000444; FSC License Code: FSC-C019364; Certificate Issue Number: IN-2015-1

## + 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/](http://www.arauco.cl/na/). ToxServices LLC considered all residuals and impurities identified for the ingredients of this product. Models covered under HPD: Trupan Vesta NAF, Trupan Vesta MR50 Variations within group: These products are offered in a variety of thickness and panel sizes. Variations in dosing percentages for wood, resin and other additives are inherent due to optimization of recipes to achieve targeted performance properties of the panels.

## 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](mailto: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

<b>AQU</b> Aquatic toxicity	<b>GLO</b> Global warming	<b>PHY</b> Physical Hazard (reactive)
<b>CAN</b> Cancer	<b>MAM</b> Mammalian/systemic/organ toxicity	<b>REP</b> Reproductive toxicity
<b>DEV</b> Developmental toxicity	<b>MUL</b> Multiple hazards	<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>OZO</b> Ozone depletion	<b>LAN</b> Land Toxicity
<b>GEN</b> Gene mutation	<b>PBT</b> Persistent Bioaccumulative Toxic	<b>NF</b> Not found on Priority Hazard Lists

### GreenScreen (GS)

<b>BM-4</b> Benchmark 4 (prefer-safer chemical)	<b>LT-P1</b> List Translator Possible Benchmark 1
<b>BM-3</b> Benchmark 3 (use but still opportunity for improvement)	<b>LT-1</b> List Translator Likely Benchmark 1
<b>BM-2</b> Benchmark 2 (use but search for safer substitutes)	<b>LT-UNK</b> List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
<b>BM-1</b> Benchmark 1 (avoid - chemical of high concern)	<b>NoGS</b> Unknown (no data on List Translator Lists)
<b>BM-U</b> Benchmark Unspecified (insufficient data to benchmark)	

### 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

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*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.*