

CLASSIFICATION: 06 00 00 Wood, Plastics, and Composites

created via: HPDC Online Builder

PRODUCT DESCRIPTION: Duraflake Fire-Rated is a UL approved Class A/Class 1 fire-rated particleboard panel. This product is ideal for use in safety code and architectural specified projects such as schools, hospitals, malls, airports, offices and public buildings. This nationally recognized fire-rated panel is classified by Underwriters Laboratories for surface burning characteristics using the UL 723 Test Method. Panels are retardant throughout, stay classified after cutting and have a wide range of sizes available. This product is available in standard and Vesta ULEF panels.

## 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.

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

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

ARAUCO NA PARTICLEBOARD - FR, VESTA FR | CELLULOSE, MICROCRYSTALLINE NoGS MELAMINE-UREA-FORMALDEHYDE (MUF) LT-1 UNK BORIC ACID LT-1 | REP | DEL | END | MUL UREA FORMALDEHYDE LT-P1 | RES UREA LT-UNK AMMONIUM CHLORIDE LT-P1 | MAM | EYE | END 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 ]

### INVENTORY AND SCREENING NOTES:

This HPD includes the following substrates: Duraflake FR, Duraflake Vesta FR. 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: Formaldehyde Emissions Grademark Certification Program - Albany, OR  
Formaldehyde emissions: Formaldehyde Emissions Grademark Certification Program - St. Stephen, NB (PB)  
Formaldehyde emissions: CARB ULEF Executive Order N-16-181 Vesta - Albany OR  
Formaldehyde emissions: CARB ULEF Executive Order N-15-151 Vesta - St. Stephen, NB (PB)

### CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed

Third Party Verified?

- Yes  
 No

PREPARER: Self-Prepared  
VERIFIER: SCS Global Services  
VERIFICATION #: qGE-3365

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 PARTICLEBOARD - FR, VESTA FR

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

#: 69.0000 - 90.0000 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

#: 5.0000 - 12.0000 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:

#### BORIC ACID

ID: 10043-35-3

#: 5.0000 - 15.0000 GS: LT-1 RC: None NANO: No ROLE: Fire Retardant

HAZARDS:

AGENCY(IES) WITH WARNINGS:

REPRODUCTIVE

EU - R-phrases

R60 - May impair fertility

DEVELOPMENTAL

EU - R-phrases

R61 - May cause harm to the unborn child

ENDOCRINE

EU - Priority Endocrine Disrupters

Category 1 - In vivo evidence of Endocrine Disruption Activity

REPRODUCTIVE

EU - SVHC Authorisation List

Toxic to reproduction - Prioritized for listing

REPRODUCTIVE

EU - GHS (H-Statements)

H360FD - May damage fertility. May damage the unborn child

MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
DEVELOPMENTAL	MAK	Pregnancy Risk Group B
REPRODUCTIVE	EU - Annex VI CMRs	Reproductive Toxicity - Category 1B
REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1B
REPRODUCTIVE	Australia - GHS	H360Fd - May damage fertility. Suspected of damaging the unborn child

SUBSTANCE NOTES:

**UREA FORMALDEHYDE**

ID: **9011-05-6**

#: **0.0000 - 12.0000**      GS: **LT-P1**      RC: **None**      NANO: **No**      ROLE: **Resin**

HAZARDS:      AGENCY(IES) WITH WARNINGS:

RESPIRATORY      AOEC - Asthmagens      Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES:

**UREA**

ID: **57-13-6**

#: **0.0000 - 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:

**AMMONIUM CHLORIDE**

ID: **12125-02-9**

#: **0.0000 - 0.2000**      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:

**UNDISCLOSED CHEMICAL #1**ID: **Undisclosed**%: **0.0000 - 0.6000** 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**%: **0.0000 - 0.5000** 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 &amp;/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**%: **0.0000 - 0.0500** 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**%: **0.0000 - 0.0150** 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.

## 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

#### Formaldehyde Emissions Grademark Certification Program - Albany, OR

CERTIFYING PARTY: Third Party  
 APPLICABLE FACILITIES: ARAUCO North America- Albany, Oregon  
 CERTIFICATE URL: <https://www.arauco.cl/na/sostenibilidad/certificaciones/>  
 ISSUE DATE: 2016-06-07  
 EXPIRY DATE:  
 CERTIFIER OR LAB: Composite Panel Association

CERTIFICATION AND COMPLIANCE NOTES: Has Fulfilled The Requirements of: California Air Resources Board (CARB) Airborne Toxic Control Measures (ATCM) 93120. SCOPE OF CERTIFICATION: Particleboard (DRC, FRT and IND) (CARB Phase 2 – 0.09 ppm).

### FORMALDEHYDE EMISSIONS

#### Formaldehyde Emissions Grademark Certification Program - St. Stephen, NB (PB)

CERTIFYING PARTY: Third Party  
 APPLICABLE FACILITIES: ARAUCO North America - St. Stephen, New Brunswick (Particleboard)  
 CERTIFICATE URL: <https://www.arauco.cl/na/sostenibilidad/certificaciones/>  
 ISSUE DATE: 2016-06-09  
 EXPIRY DATE:  
 CERTIFIER OR LAB: Composite Panel Association

CERTIFICATION AND COMPLIANCE NOTES: Has Fulfilled The Requirements of: California Air Resources Board (CARB) Airborne Toxic Control Measures (ATCM) 93120. SCOPE OF CERTIFICATION: Particleboard (IN4, IN5, and IN6) (CARB Phase 2 – 0.09 ppm)

### FORMALDEHYDE EMISSIONS

#### CARB ULEF Executive Order N-16-181 Vesta - Albany OR

CERTIFYING PARTY: Third Party  
 APPLICABLE FACILITIES: ARAUCO North America - Albany, OR  
 CERTIFICATE URL:  
 ISSUE DATE: 2016-06-07  
 EXPIRY DATE: 2018-06-07  
 CERTIFIER OR LAB: California Air Resources Board

CERTIFICATION AND COMPLIANCE NOTES:

**FORMALDEHYDE EMISSIONS**

**CARB ULEF Executive Order N-15-151 Vesta - St. Stephen, NB (PB)**

CERTIFYING PARTY: Third Party      ISSUE DATE: 2015-06-26      EXPIRY DATE: 2017-06-26      CERTIFIER OR LAB: California Air Resources Board

APPLICABLE FACILITIES: ARAUCO North America - St. Stephen  
CERTIFICATE URL: [https://www.arb.ca.gov/toxics/compwood/naf\\_ulef/fb151.pdf](https://www.arb.ca.gov/toxics/compwood/naf_ulef/fb151.pdf)

CERTIFICATION AND COMPLIANCE NOTES:

**COMPOSITE WOOD**

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

CERTIFYING PARTY: Third Party      ISSUE DATE: 2016-05-18      EXPIRY DATE:      CERTIFIER OR LAB: Composite Panel Association

APPLICABLE FACILITIES: ARAUCO North America - Albany, Oregon  
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: Particleboard. Eco-attributes: Carbon Footprint; Locally Sourced Fiber; Recycled, Recovered or Post-Consumer Fiber Content.

**COMPOSITE WOOD**

**ECC - Eco-certified Composite Grademark Program - St. Stephen, NB (PB)**

CERTIFYING PARTY: Third Party      ISSUE DATE: 2016-05-19      EXPIRY DATE:      CERTIFIER OR LAB: Composite Panel Association

APPLICABLE FACILITIES: ARAUCO North America - St. Stephen New Brunswick  
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: Particleboard ECO-ATTRIBUTES: Locally Sourced Fiber; Recycled, Recovered or Post-Consumer Fiber Content; Responsible Wood Sourcing

**MANAGEMENT**

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

CERTIFYING PARTY: Third Party      ISSUE DATE: 2017-12-21      EXPIRY DATE: 2020-12-20      CERTIFIER OR LAB: Lloyd's Register Quality Assurance

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.

**OTHER**

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

CERTIFYING PARTY: Third Party

ISSUE DATE: 2013-09-23

EXPIRY DATE: 2018-09-22

CERTIFIER OR LAB: Rainforest Alliance

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/>

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/). CARB Phase 2 Certification applies to non-Vesta panels. CARB Executive Order applies to Vesta panels. ToxServices LLC considered all residuals and impurities identified for the ingredients of this product. Models covered under this HPD: Duraflake FR, Duraflake Vesta FR 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. Vesta panels are certified to CARB ULEF; all others are certified to CARB Phase 2 emissions requirements.

## 👁️ Section 6: References

### MANUFACTURER INFORMATION

MANUFACTURER: Arauco North America

ADDRESS: 400 Perimeter Center Terrace, Suite 750

CONTACT NAME: Kerry Little

TITLE: Corporate Sustainability Manager

**KEY**

<b>OSHA MSDS</b>	Occupational Safety and Health Administration Material Safety Data Sheet
<b>GHS SDS</b>	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

<b>PreC</b> Preconsumer (Post-Industrial)
<b>PostC</b> Postconsumer
<b>Both</b> Both Preconsumer and Postconsumer
<b>Unk</b> Inclusion of recycled content is unknown
<b>None</b> 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.*