



# Safety Data Sheet

VESTA™ Particleboard (NAF)

Section 1: Identification			
Product Name	VESTA NAF Particleboard		
Synonyms	<ul> <li>VESTA NAF Particleboard This SDS is applicable for all Arauco North America VESTA NAF particleboard manufactured at the sites noted below including NAF panels laminated with thermally fused laminate (TFL)/melamine.</li> </ul>		
Product Description	<ul> <li>A wood product composed of wood a</li> </ul>	and cured synthetic resins	
Recommended use	Building Materials –Decorative, Furniture, General Construction		
Manufacturing Sites	• Albany, OR		
Supplier	ARAUCO North America		
	5901-B Peachtree Dunwoody Rd NE Atlanta, GA 30328 USA <u>http://www.arauco-na.com/</u>	E, Suite 500	
Telephone (General)	• 800-261-4890		
Suppliers	• <u>Canadian Regional Center</u> 80 Tiverton Court, Suite 701 Markham L3R 0G4 Canada Tel: (905) 475-9686 Fax: (905) 475-3827 <u>US Western Regional Center</u> 2550 NE Old Salem Road Albany, OR 97321 Tel: (888) 650-6302 Fax: (541) 928- 4116	US Eastern Regional Center 515 River Crossing Drive, Suite 110 Fort Mill, SC 29715 Tel: (877) 273-7680 Fax: (800) 808-1454	



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#### Section 2: Hazard Identification

#### United States (US) According to: OSHA 29 CFR 1910.1200 HCS

#### Classification of the substance or mixture

**OSHA HCS 2012** 

 This product is generally an article but is regulated under OSHA for the release of wood dust during mechanical operations releasing dust. The free formaldehyde levels are below OSHA reporting requirements. The classifications below are based upon wood dust.

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Skin Irritation 2 Skin Sensitization 1 Eve Mild Irritation 2B **Respiratory Sensitization 1** Carcinogenicity 1A Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation Combustible Dust

# Label elements **OSHA HCS 2012**

DANGER



#### Hazard statements • Causes skin irritation

May cause an allergic skin reaction

- Causes eye irritation
  - May cause respiratory irritation
  - May cause allergy or asthma symptoms or breathing difficulties if inhaled
  - May cause cancer via inhalation of respirable dust

May form combustible dust concentrations in air.

#### **Precautionary statements**

- Prevention Obtain special instructions before use.
  - Do not handle until all safety precautions have been read and understood. Do not breathe dust.
  - Contaminated work clothing should not be allowed out of the workplace.
  - In case of inadequate ventilation wear respiratory protection.
  - Wash thoroughly after handling.
  - Do not eat, drink or smoke when using this product.
  - Use only outdoors or in a well-ventilated area.
  - Wear protective gloves/protective clothing/eye protection.
- Response IF ON SKIN: Wash with plenty of soap and water.
  - If skin irritation or rash occurs: Get medical advice/attention.
  - Take off contaminated clothing and wash it before reuse.
  - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
  - lenses, if present and easy to do. Continue rinsing.
  - If eye irritation persists: Get medical advice/attention.
  - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in



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	a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. IF exposed or concerned: Get medical advice/attention.
Storage/Disposal	• Store away from water and ignition sources. It is recommended to store the product in an area with relative humidity and temperature that approximates end use conditions.
	Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
Other hazards	
OSHA HCS 2012	• This product is not considered hazardous under the U.S. OSHA 29 CFR

1910.1200 Hazard Communication Standard.

#### Other information

NFPA •Health = 1, Flammability = 1, Reactivity = 0, Special Information = None

HMIS • Health = \*1, Flammability = 1, Reactivity = 0, PPE = E

\* Chronic Health Hazard

E = Safety glasses, gloves, and a dust respirator

# Section 3 - Composition/Information on Ingredients

#### Mixtures

These wood products are composed of wood and cured amino resins. See Section 8 for exposure limits discussion.

Composition			
Chemical Name	Identifiers	%	Hazardous
Wood fibers*	CAS: Not Available	92.5% TO 98.5%	Yes
Cured Synthetic Resins	CAS: Proprietary	1.5% TO 4%	No
Urea	CAS: 57-13-6	0% TO 3%	Yes

\* Wood contains trace amounts of various chemicals present in the environment which are absorbed by trees through natural growth. A comprehensive listing of species is available upon request.

All products produced at Arauco NA mills are certified to the Composite Panel Association's Eco-certified Composite (ECC) Sustainability Standard which requires adherence to the strict California Air Resources Board (CARB) Composite Wood Formaldehyde Air Toxic Control Measure (CARB ATCM 93120.12).

CALIFORNIA RESIDENTS: This product contains one or more chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

# Section 4: First-Aid Measures

# Description of first aid measures

- Inhalation IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
   Take off contaminated clothing and wash before reuse.
- **Eye** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- **Ingestion** Health effects are not known or expected to occur under normal use. Low hazard for usual industrial or commercial handling.

# Most important symptoms and effects, both acute and delayed

• Refer to Section 11 - Toxicological Information.



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Extinguishing media	
Suitable Extinguishing Media	<ul> <li>SMALL FIRES: Dry chemical, CO2, water spray or regular foam.</li> <li>LARGE FIRE: Water spray, fog or regular foam.</li> </ul>
Unsuitable Extinguishing Media	No data available
Firefighting Procedures	• No special procedures. Fire-fighting procedures for wood products are well known.
Special hazards arising fro	om the substance or mixture
Unusual Fire and Explosion Hazards	<ul> <li>NAF Particleboard is not an explosion hazard. Sawing, sanding, or machining NAF Particleboard could result in the by-product wood dust. Wood dust may present a strong to severe explosion hazard if a dust cloud contacts an ignition source.</li> <li>Airborne concentrations of 40 grams per cubic meter are often used as the lower explosive limit (LEL) for wood dusts. OSHA interprets the explosive level as having no visibility within five feet or less.</li> </ul>
Hazardous Combustion Products	<ul> <li>Burning of NAF Particleboard can result in carbon dioxide, carbon monoxide, oxides of nitrogen, aldehydes, cyanides and other hazardous gases and particles.</li> </ul>

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Personal precautions, protective equipment and emergency procedures		
Personal Precautions	Do not breathe dust.	
Emergency Procedures	• No emergency procedures are expected to be necessary if material is used under	
	ordinary conditions as recommended.	

#### **Environmental precautions**

No known significant environmental effects.

#### Methods and material for containment and cleaning up

. . .

Containment/Clean-up	<ul> <li>Not applicable for product in purchased form. Dust generated from sawing, sanding,</li> </ul>
Measures	drilling or routing this product may be vacuumed or shoveled for recovery or disposal.
	Wood dust clean-up and disposal activities should be accomplished in a manner to
	minimize creation of airborne dust.

#### Section 7 - Handling and Storage

#### Precautions for safe handling

Handling

• No special precautions for handling product. Use good safety and industrial hygiene practices. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

#### Conditions for safe storage, including any incompatibilities

Storage Avoid storage where exposure to water could occur or near a source of ignition. It is recommended to store the product in an area with relative humidity and temperature that approximates end use conditions. Keep away from sources of ignition - No Smoking.

Incompatible Materials • Keep away from ignition sources.

or Ignition Sources



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# Section 8 - Exposure Controls/Personal Protection

# **Control parameters**

Exposure Limits/Guidelines • No data available.

	Exposure Limits/Guidelines				
	Result	ACGIH	NIOSH	OSHA	
Wood dust		*		15 mg/m3 , total dust (5 mg/m3 , respirable fraction) (as nuisance dust)	

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#### **Exposure controls**

Engineering **Measures/Controls**   Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values. Due to the explosive potential of wood dust when suspended in air, precautions should be taken during sanding, sawing or machining of wood products to prevent sparks or other ignition sources in ventilation equipment. Use of totally enclosed motors is recommended.

#### **Personal Protective Equipment**

Pictograms



Respiratory	<ul> <li>Use of a NIOSH/MSHA approved dust respirator is recommended where airborne dust levels exceed appropriate PELs and TLVs.</li> </ul>
Eye/Face	Wear safety glasses.
Hands	<ul> <li>Wear protective gloves - Rubberized cloth, canvas or leather gloves.</li> </ul>
Skin/Body	<ul> <li>Wear long sleeves and/or protective coveralls.</li> </ul>
General Industrial Hygiene Considerations	• Practice good housekeeping and avoid creating/breathing dust. Do not allow dust to collect. Maintain, clean, and fit test respirators in accordance with OSHA regulations.
Environmental Exposure Controls	No data available

# **Section 9 - Physical and Chemical Properties**

#### Information on Physical and Chemical Properties

# Material Description

Physical Form	Solid A panel product manufactured from wood fibers bonded with synthetic resins or other bonding system	Appearance/Description	Particleboard panel.
Color	Straw yellow (light brown)	Odor	No distinctive odor.



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Taste	No data available.	Odor Threshold	Not relevant
General Properties			· · · · ·
Boiling Point	Not relevant	Melting Point	Not relevant
Decomposition Temperature	No data available	рН	Not relevant
Specific Gravity/Relative Density	Not relevant	Density	No data available
Bulk Density	No data available	Water Solubility	Insoluble
Viscosity	No data available	Explosive Properties	No data available
Oxidizing Properties:	No data available		
Volatility			
Vapor Pressure	Not relevant	Vapor Density	No data available
Evaporation Rate	Not relevant	VOC (Vol.)	0 %
Flammability			-
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Burning Time	No data available
Autoignition	425 to 475 F(218.3333 to 246.1111 C)	Flammability (solid, gas)	No data available

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# Section 10: Stability and Reactivity

#### Reactivity

• The product is stable.

#### Chemical stability

Stable

#### Possibility of hazardous reactions

• Hazardous polymerization not indicated. Hazardous polymerization will not occur.

#### Conditions to avoid

• Exposure to water, ignition source, high relative humidity and high temperature.

#### Incompatible materials

• Incompatible Materials: Acids (strong), Oxidizers (strong)

#### Hazardous decomposition products

 Hazardous decomposition may occur Thermal and/or thermal oxidative decomposition can produce irritating and toxic fumes and gases, generating carbon oxides, nitrogen oxides, HCN, aldehydes and organic acids.



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### **Section 11 - Toxicological Information**

#### Information on toxicological effects

**Other Material** Information

• Toxicological impacts expected to be minimal for products in purchased form. Individual component information is provided below if available.

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	Components		
Urea (0 TO 3%)	57-13-6	Acute Toxicity: Ingestion/Oral-Rat LD50 • 8471 mg/kg; Ingestion/Oral-Rat TDLo • 750 mg/kg; <i>Kidney, Ureter, and Bladder</i> : <b>Urine volume increased</b> ; <i>Nutritional and Gross Metabolic:Changes in Chemistry or Temperature</i> : <b>N</b> a; <i>Nutritional and Gross Metabolic:Changes in Chemistry or Temperature</i> : <b>K</b> ; <b>Irritation</b> : Skin-Human • 20 % 24 Hour(s) • Moderate irritation; Multi-dose Toxicity: Inhalation-Rat TCLo • 288 mg/m <sup>3</sup> 17 Week(s)-Intermittent; <i>Kidney, Ureter, and Bladder</i> : <b>Other changes in urine composition</b> ; <i>Blood</i> : <b>Other changes</b> ; <i>Nutritional and Gross Metabolic: Changes in Chemistry or Temperature</i> : <b>C</b> ; <b>Tumorigen / Carcinogen:</b> Ingestion/Oral-Rat TDLo • 821 g/kg 1 Year(s)-Continuous; <i>Tumorigenic</i> : <b>Neoplastic by RTECS criteria</b> ; <i>Blood</i> : <b>Tumors</b> ; <i>Blood</i> : <b>Lymphoma, including Hodgkin's disease</b>	

GHS Properties	Classification	
Acute toxicity	OSHA HCS 2012• Data lacking	
Aspiration Hazard	OSHA HCS 2012• Data lacking	
Carcinogenicity	OSHA HCS 2012• Carcinogenicity 1A	
Germ Cell Mutagenicity	OSHA HCS 2012• Data lacking	
Skin corrosion/Irritation	OSHA HCS 2012• Skin Irritation 2	
Skin sensitization	OSHA HCS 2012• Skin Sensitizer 1	
STOT-RE	OSHA HCS 2012• Data lacking	
STOT-SE	OSHA HCS 2012• Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation	
Toxicity for Reproduction	OSHA HCS 2012• Data lacking	
Respiratory sensitization	OSHA HCS 2012• Respiratory Sensitizer 1	
Serious eye damage/Irritation	OSHA HCS 2012• Eye Mild Irritation 2B	

**Target Organs** 

Skin/Dermal, Lungs, Respiratory System

Route(s) of entry/exposure	<ul> <li>Inhalation, Skin, Eye</li> </ul>
Medical Conditions Aggravated by Exposure	<ul> <li>Dusts may aggravate asthma or other respiratory disorders.</li> </ul>

#### **Potential Health Effects**

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs include:

#### Inhalation

Acute (Immediate)

May cause respiratory irritation.

Chronic (Delayed)

• Repeated and prolonged exposure may cause cancer. Repeated and prolonged exposure may cause sensitization of the respiratory system.



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Skin Acute (Immediate) Chronic (Delayed)	<ul><li>May cause irritation.</li><li>Repeated and prolonged exposure may cause sensitization.</li></ul>
Eye Acute (Immediate) Chronic (Delayed)	<ul><li>May cause irritation.</li><li>No data available.</li></ul>
Ingestion Acute (Immediate) Chronic (Delayed)	<ul> <li>Under normal conditions of use, no health effects are expected.</li> <li>Under normal conditions of use, no health effects are expected.</li> </ul>
Carcinogenic Effects	• Wood dust is listed by NTP known to be a Human Carcinogen (10th Report), IARC Monographs: Wood dust, Group 1 - IARC Group 1: Carcinogenic to humans; sufficient evidence of carcinogenicity. This classification is primarily based on studies showing an association between occupational exposure to wood dust and adenocarcinoma of the nasal cavities and paranasal sinuses. IARC did not find sufficient evidence of an association between occupational exposure to wood dust and cancers of the hypopharynx, oropharynx, lymphatic and hematopoietic systems, lungs, stomach, colon or rectum.

Carcinogenic Effects				
	CAS	OSHA	IARC	NTP
Wood dust as Wood dust, all soft and hard woods	Not Available	Not Listed	Group 1-Carcinogenic	Known Human Carcinogen

# **Section 12 - Ecological Information**

### Toxicity

• No information available at this time. As with all foreign substances do not allow to enter the storm drainage systems. These wood products are not expected to pose an ecological hazard as a result of their intended use.

#### Persistence and degradability

No data available

#### **Bioaccumulative potential**

No data available

#### **Mobility in Soil**

No data available

#### **Section 13 - Disposal Considerations**



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#### Waste treatment methods

Product waste • Burn in a municipal incinerator. Dispose of in an approved landfill. Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste • No data available

#### **Section 14 - Transport Information**

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available
TDG	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available

#### Special precautions for user

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Other information

- No special precautions.
- No data available

**DOT** • Not regulated as a hazardous material.

**TDG** • Not regulated as a dangerous good.

minimis reporting quantities

# **Section 15 - Regulatory Information**

# Safety, health and environmental regulations/legislation specific for the mixture

#### **SARA Hazard Classifications**

Acute, Chronic

Inventory				
Component	CAS	Canada DSL		TSCA
NAF Particleboard	Not Applicable Not listed. All components are on th DSL or are excluded from list		ISUA INVENTORY OF ARE AVCILIDE	
Canada				
Labor Canada - WHMIS	- Classifications of	Substances		
•NAF Particleboard and ingredients (unless listed below)		s listed below)	N/A	Not listed or below de minimis reporting quantities
Canada - WHMIS	- Ingredient Disclos	ure List		
NAF Particleboard and ingredients (unless listed below)			N/A	Not listed or below de minimis reporting quantities
United States				
Labor U.S OSHA - Proc	ess Safety Managem	ent - Highly Hazardous Chemicals		
NAF Particleboard and ingredients (unless listed below)			١	N/A Not listed or below de minimis reporting quanti

#### Environment



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U.S CERCLA/SARA - Hazardous Substances and their Reportable Quantities • NAF Particleboard and ingredients (unless listed below)	N/A	Not Listed
U.S CERCLA/SARA - Section 304 Extremely Hazardous Substances EPCRA RQs • NAF Particleboard and ingredients (unless listed below)	N/A	Not Listed
<ul> <li>U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA TPQs</li> <li>• NAF Particleboard and ingredients (unless listed below)</li> </ul>	N/A	Not Listed
<ul> <li>U.S CERCLA/SARA - Section 313 - Emission Reporting</li> <li>• NAF Particleboard and ingredients (unless listed below)</li> </ul>	N/A	Not Listed
United States - California		
Environment U.S California - Proposition 65 - Carcinogens List • NAF Particleboard and ingredients (unless listed below)	N/A	Not Listed
Wood dust as Wood dust, all soft and hard woods	N/A	carcinogen, initial date 12/18/09

# Section 16 - Other Information

Classification method for mixtures Last Revision Date Preparation Date Disclaimer/Statement of Liability	<ul> <li>Carcinogenicity classification based upon cut-off values/concentration limits of ingredients.</li> <li>January 16, 2013</li> <li>June 1, 2015</li> <li>The information contained in this Material Safety Data Sheet is based on the experience of occupational health and safety professionals and comes from sources believed to be</li> </ul>			
	accurate or otherwise technically correct. It is the user's responsibility to determine if the product is suitable for its proposed application(s) and to follow necessary safety precautions. The user has the responsibility to make sure that this sheet is the most up-to-date issue.			
	• Arauco North America is a trade name used by Flakeboard Company Limited, America Limited, Arauco Panels USA LLC, and other North America affiliates, each of which is an independent company and is not liable or responsible for acts or obligations of its affiliates.			



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# **GHS Product Hazard Label**

### **Terra Particleboard (NAF)**

According to OSHA 29 CFR 1910.1200 HCS



This product is generally an article but is regulated under OSHA for the release of wood dust during mechanical operations releasing wood dust. No adverse health effects are expected if the product is handled in accordance with the product label and the product Safety Data Sheet. Symptoms or effects that may arise if the product is mishandled and overexposure occurs include:

Causes skin irritation. May cause an allergic skin reaction. Causes eye irritation. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause cancer via inhalation of respirable dust. May form combustible dust concentrations in air.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dust.

Contaminated work clothing should not be allowed out of the workplace.

In case of inadequate ventilation wear respiratory protection.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

IF exposed or concerned: Get medical advice/attention.

Store away from water and sources of ignition. It is recommended to store the product in an area with relative humidity and temperature that approximates end use conditions. Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

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# **California Proposition 65 Notification Requirement**

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# Warning

Drilling, sawing, or machining wood products generates wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection.

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