

# Fire-Rated (FR) Particleboard

## Safety Data Sheet

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### SECTION 1: IDENTIFICATION

#### 1.1. Product Identifier

**Product Form:** Article

**Product Name:** Fire-Rated (FR) Particleboard

**Synonyms:** Decoratively Surfaced FR Particleboard; Duraflake FR, Duraflake Vesta ULEF FR; FR particleboard; Particleboard FR; TFL FR Particleboard; ULEF FR particleboard; Vesta ULEF FR

#### 1.2. Intended Use of the Product

**Use of the Substance/Mixture:** Building Materials – Decorative, Furniture, General Construction

#### 1.3. Name, Address, and Telephone of the Responsible Party

##### Company

Arauco North America, Inc. and Arauco Canada Limited (“ARAUCO North America”)

400 Perimeter Center Terrace

Suite 750

Atlanta, GA 30346

800-261-4890

[na.arauco.com](http://na.arauco.com)

#### 1.4. Emergency Telephone Number

**Emergency Number** : ChemTel LLC  
(800)255-3924 (North America)  
+1 (813)248-0585 (International)

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the Substance or Mixture

This is a wood product composed of wood and cured resin. The hazard information denoted in this SDS applies only when the product is altered downstream by cutting, sawing, sanding, heating or other means and significant dust or fume is generated. In its shipped and finished form, this product is not considered hazardous.

##### GHS-US Classification

**Classification as delivered:**

Not classified

**Classification for physical alteration resulting in dust or fume:**

Eye Irrit. 2A H319

Resp. Sens. 1 H334

Skin Sens. 1 H317

Carc. 1A H350

Repr. 1B H360

STOT SE 3 H335

STOT RE 1 H372

Comb. Dust

Full text of hazard classes and H-statements : see section 16

#### 2.2. Label Elements

##### GHS-US Labeling

**Classification as delivered:**

Not classified

**Classification for physical alteration resulting in dust or fume:**

**Hazard Pictograms (GHS-US)** :



**Signal Word (GHS-US)** :

Danger

**Hazard Statements (GHS-US)** :

May form combustible dust concentrations in air.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H334 - May cause an allergy or asthma symptoms or breathing difficulties if inhaled.

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H335 - May cause respiratory irritation.  
 H350 - May cause cancer (Inhalation).  
 H360 - May damage fertility or the unborn child (Oral).  
 H372 - Causes damage to organs (lungs) through prolonged or repeated exposure (Inhalation).

**Precautionary Statements (GHS-US)**

- : P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.
- P260 - Do not breathe dust, fume.
- P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P271 - Use only outdoors or in a well-ventilated area.
- P272 - Contaminated work clothing must not be allowed out of the workplace.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P284 - [In case of inadequate ventilation] wear respiratory protection.
- P302+P352 - If on skin: Wash with plenty of water.
- P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing.
- P304+P341 - If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 - If exposed or concerned: Get medical advice/attention.
- P312 - Call a poison center or doctor if you feel unwell.
- P314 - Get medical advice/attention if you feel unwell.
- P321 - Specific treatment (see supplemental first aid on this Label).
- P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 - If eye irritation persists: Get medical advice/attention.
- P342+P311 - If experiencing respiratory symptoms: Call a poison center or doctor.
- P363 - Wash contaminated clothing before reuse.
- P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
- P405 - Store locked up.
- P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

**Supplemental Information**

- : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Proper grounding procedures to avoid static electricity should be followed. Prevent dust accumulation (to minimize explosion hazard). Avoid generating dust.

**2.3. Other Hazards**

This product contains less than 0.01% free formaldehyde. Residual formaldehyde gas emissions may be released from this product (see Section 15, Regulatory). Formaldehyde gas is irritating to the eyes and upper respiratory tract and may aggravate existing respiratory conditions or allergies. Formaldehyde may cause cancer.

**2.4. Unknown Acute Toxicity (GHS-US)**

No data available

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substance**

Not applicable

**3.2. Mixture**

Name	Synonyms	Product Identifier	%	GHS US classification*
Wood dust, all soft and hard woods	Wood dust / Wood dust, hard and soft / Wood	(CAS-No.) Not applicable	69 – 90	Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372 Comb. Dust
Boric acid (H3BO3)	Orthoboric acid / Boracic acid	(CAS-No.) 10043-35-3	5 – 15	Repr. 1B, H360

Urea, polymer with formaldehyde and 1,3,5-triazine-2,4,6-triamine	Formaldehyde-melamine-urea polymer / Melamine-formaldehyde-urea resin / Urea-formaldehyde resin modified by polyethylenepolyamine / Urea-formaldehyde-melamine copolymer / SA-22	(CAS-No.) 25036-13-9	5 – 12	Flam. Liq. 3, H226 Eye Irrit. 2A, H319
Urea, polymer with formaldehyde	Formaldehyde copolymer with urea / Formaldehyde-urea condensate / Formaldehyde-urea precondensate / Resin, urea formaldehyde / Urea-formaldehyde adduct / Polynoxylin / Formaldehyde-urea copolymer / Urea formaldehyde polymer / Urea formaldehyde resin / Urea-formaldehyde polycondensate / Urea-formaldehyde resin / Formaldehyde urea / Carbamol / Ponoxylin / Polyoxymethylene urea / Urea-formaldehyde	(CAS-No.) 9011-05-6	≤ 12	Comb. Dust
Décor papers**	Decorative papers	(CAS-No.) Not applicable	< 5	Comb. Dust
Urea	Carbamide / Carbonyl diamide / Carbonic acid diamide	(CAS-No.) 57-13-6	0.15 – 3	Comb. Dust
Formaldehyde-melamine polymer**	Formaldehyde-melamine condensate / Melamine, polymer with formaldehyde / Melamine-formaldehyde condensate / Melamine-formaldehyde copolymer / Resin, melamine-formaldehyde / 1,3,5-Triazine-2,4,6-triamine, polymer with formaldehyde / Melamine formaldehyde resins / Melamine polymer with formaldehyde / Polyoxymethylene melamine / 2,4,6-Triamino-s-triazine-formaldehyde polymer / Melamine resin / Polymer of formaldehyde/1,3,5-triazine-2,4,6-triamine	(CAS-No.) 9003-08-1	< 1.2	Aquatic Chronic 1, H410
Titanium dioxide**	C.I. 77891 / C.I. Pigment White 6 / Titanium oxide (TiO <sub>2</sub> ) / Titanium(IV) oxide / C.I. Pigment White 7 / Titanium oxide	(CAS-No.) 13463-67-7	< 1.2	Carc. 2, H351
Carbon black**	C.I. 77266 / C.I. Pigment Black 6 / C.I. Pigment Black 7 / Lampblack / Vegetable carbon / Microjet Black CW / Pigment Black 7 / Coal soot / Channel black / Bonjet Black CW / D and C Black No. 4 / D and C Black No. 2	(CAS-No.) 1333-86-4	≤ 1	Carc. 2, H351 Comb. Dust
Formaldehyde	Formalin / Formic aldehyde / Methanal / Methaldehyde	(CAS-No.) 50-00-0	< 0.01	Flam. Liq. 4, H227 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1A, H350 STOT SE 3, H335 Aquatic Acute 2, H401 Aquatic Chronic 3, H412

Full text of H-phrases: see section 16

\*This is a wood product composed of wood and cured resin. The hazard information applies only when the product is altered downstream by cutting, sawing, sanding, heating or other means and significant dust or fume is generated. In its shipped and finished form, this product is not considered hazardous. Residual formaldehyde gas may be released from this product. The amount and level will depend on local conditions of use.

\*\* Ingredients used in either decorative surfacing.

### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of First-aid Measures

**First-aid Measures General:** The health effects listed below are not likely to occur unless dust or fumes are generated by processing.

**First-aid Measures After Inhalation:** Using proper respiratory protection, move the exposed person to fresh air at once. Encourage exposed person to cough, spit out, and blow nose to remove dust. Immediately call a poison center, physician, or emergency medical service.

**First-aid Measures After Skin Contact:** Remove contaminated clothing. Brush off loose particles from skin. Wash affected area with soap and water for at least 15 minutes. Obtain medical attention if irritation/rash develops or persists. If exposed or concerned: Get medical advice/attention.

**First-aid Measures After Eye Contact:** Immediately rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

**First-aid Measures After Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

#### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**Symptoms/Injuries:** Processing this material may release dust or fumes that are hazardous.

**Symptoms/Injuries After Inhalation:** For particulates and dust: Irritation of the respiratory tract and the other mucous membranes. Exposure may produce cough, mucous secretions, shortness of breath, chest tightness or other symptoms indicative of an allergic/sensitization reaction.

**Symptoms/Injuries After Skin Contact:** Direct contact may cause irritation by mechanical abrasion. For particulates and dust: May cause an allergic skin reaction.

**Symptoms/Injuries After Eye Contact:** Contact may cause irritation due to mechanical abrasion. For particulates and dust: Contact causes severe irritation with redness and swelling of the conjunctiva.

**Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects. May damage fertility or the unborn child.

**Chronic Symptoms:** Ingestion may damage fertility or the unborn child. Prolonged inhalation of wood dust is known to cause cancer of the respiratory system and lung disease. Repeated or prolonged exposure to titanium dioxide dust via inhalation is suspected of causing cancer of the respiratory tract. Carbon black is classified under the IARC as 2B, "possibly carcinogenic to humans" and under ACGIH as A3 "confirmed animal carcinogen with unknown relevance to humans".

#### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

### SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Foam. Water spray, fog.

**Unsuitable Extinguishing Media:** For particulates and dust: Do not use a heavy water stream. Carbon dioxide (CO<sub>2</sub>).

#### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not considered flammable but will burn at high temperatures.

**Explosion Hazard:** Product itself is not explosive but if dust is generated, dust clouds suspended in air can be explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

#### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any fire.

**Firefighting Instructions:** Avoid raising dust. Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Boron compounds. Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides. Formaldehyde.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Do not handle until all safety precautions have been read and understood. Avoid generating dust. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Do not breathe dust. Do not get in eyes, on skin, or on clothing.

##### 6.1.1. For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protective equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

##### 6.1.2. For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

Ventilate area.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and Materials for Containment and Cleaning Up

**For Containment:** Avoid generation of dust during clean-up of spills. Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Use only non-sparking tools. Avoid generation of dust during clean-up of spills. Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal. For particulates and dust: Avoid dispersal of dust in the air (i.e, clearing dust surfaces with compressed air). Vacuum clean-up is preferred. If sweeping is required use a dust suppressant. Use explosion proof vacuum during cleanup, with appropriate filter. Do not mix with other materials. Contact competent authorities after a spill.

### 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Additional Hazards When Processed:** Accumulation and dispersion of dust with an ignition source can cause a combustible dust explosion. Keep dust levels to a minimum and follow applicable regulations.

**Precautions for Safe Handling:** Avoid creating or spreading dust. Keep away from heat, sparks, open flames, and hot surfaces. No smoking. For particulates and dust: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin, eyes and clothing. Do not breathe dust. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations. Avoid creating or spreading dust. For particulates and dust: Use explosion-proof electrical, ventilating, lighting equipment. Proper grounding procedures to avoid static electricity should be followed.

**Storage Conditions:** Store in a dry, cool place. Keep/Store away from Extremely high or low temperatures, Incompatible materials. Store locked up/in a secure area.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers.

### 7.3. Specific End Use(s)

Building Materials – Decorative, Furniture, General Construction

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

<b>Wood dust, all soft and hard woods</b>		
<b>USA NIOSH</b>	NIOSH REL TWA	1 mg/m <sup>3</sup>
<b>Urea (57-13-6)</b>		
<b>USA AIHA</b>	WEEL TWA	10 mg/m <sup>3</sup>
<b>Particulates Not Otherwise Regulated</b>		
<b>USA OSHA</b>	OSHA PEL TWA	5 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL STEL	15 mg/m <sup>3</sup>
<b>Formaldehyde (50-00-0)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	0.1 ppm
<b>USA ACGIH</b>	ACGIH OEL STEL	0.3 ppm
<b>USA ACGIH</b>	ACGIH chemical category	Confirmed Human Carcinogen,dermal sensitizer
<b>USA NIOSH</b>	NIOSH REL TWA	0.016 ppm
<b>USA NIOSH</b>	NIOSH REL C	0.1 ppm
<b>USA IDLH</b>	IDLH	20 ppm
<b>USA OSHA</b>	OSHA PEL TWA	0.75 ppm
<b>USA OSHA</b>	OSHA PEL STEL	2 ppm (see 29 CFR 1910.1048)
<b>USA OSHA</b>	OSHA Action Level/Excursion Limit	0.5 ppm (Action level, see 29 CFR 1910.1028)
<b>Titanium dioxide (13463-67-7)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	10 mg/m <sup>3</sup>
<b>USA ACGIH</b>	ACGIH chemical category	Not Classifiable as a Human Carcinogen

<b>USA NIOSH</b>	NIOSH REL TWA	2.4 mg/m <sup>3</sup> (CIB 63-fine) 0.3 mg/m <sup>3</sup> (CIB 63-ultrafine, including engineered nanoscale)
<b>USA IDLH</b>	IDLH	5000 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL TWA	15 mg/m <sup>3</sup> (total dust)
<b>Boric acid (H3BO3) (10043-35-3)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	2 mg/m <sup>3</sup> (inhalable particulate matter (Borate compounds, inorganic))
<b>USA ACGIH</b>	ACGIH OEL STEL	6 mg/m <sup>3</sup> (inhalable particulate matter (Borate compounds, inorganic))
<b>USA ACGIH</b>	ACGIH chemical category	Not Classifiable as a Human Carcinogen
<b>Carbon black (1333-86-4)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	3 mg/m <sup>3</sup> (inhalable particulate matter)
<b>USA ACGIH</b>	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
<b>USA NIOSH</b>	NIOSH REL TWA	3.5 mg/m <sup>3</sup> 0.1 mg/m <sup>3</sup> (Carbon black in presence of Polycyclic aromatic hydrocarbons)
<b>USA IDLH</b>	IDLH	1750 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL TWA	3.5 mg/m <sup>3</sup>

### 8.2. Exposure Controls

#### Appropriate Engineering Controls

: The following applies to the product if it is cut, sanded or altered in such a way that excessive and/or significant particulates and/or dusts may be generated: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Use local exhaust or general dilution ventilation or other suppression methods to maintain dust levels below exposure limits. Power equipment should be equipped with proper dust collection devices. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment.

#### Personal Protective Equipment

: Gloves. Protective clothing. Protective goggles or glasses. Insufficient ventilation: wear respiratory protection.



#### Materials for Protective Clothing

##### Hand Protection

##### Eye and Face Protection

##### Skin and Body Protection

##### Respiratory Protection

: Wear suitable protective clothing.

: Wear protective gloves.

: Goggles or safety glasses with side-shields.

: Wear appropriate personal protective equipment.

: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

#### Other Information

: When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

#### Physical State

: Solid

#### Appearance

: A particle board panel product manufactured from wood fibers bonded with resin. Color varies by product.

#### Odor

: No distinctive odor

#### Odor Threshold

: No data available

#### pH

: No data available

#### Evaporation Rate

: No data available

#### Melting Point

: No data available

#### Freezing Point

: No data available



Boiling Point	: No data available
Flash Point	: No data available
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: No data available
Lower Flammable Limit	: No data available
Upper Flammable Limit	: No data available
Vapor Pressure	: No data available
Relative Vapor Density at 20°C	: No data available
Relative Density	: No data available
Solubility	: Insoluble in water
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: No data available

### 9.2. Other Information

No additional information available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Hazardous reactions will not occur under normal conditions.

### 10.2. Chemical Stability

Stable under recommended handling and storage conditions (see section 7).

### 10.3. Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to Avoid

Dust accumulation (to minimize explosion hazard). Sparks, heat, open flame and other sources of ignition. Extremely high or low temperatures. Incompatible materials.

### 10.5. Incompatible Materials

Strong acids, strong bases, strong oxidizers.

### 10.6. Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products will not be produced. Thermal decomposition may produce: Boron compounds. Carbon oxides (CO, CO<sub>2</sub>). Formaldehyde. Nitrogen oxides.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on Toxicological Effects

**Likely Routes of Exposure:** Dermal; Eye contact; Inhalation

**Acute Toxicity (Oral):** Not classified

**Acute Toxicity (Dermal):** Not classified

**Acute Toxicity (Inhalation):** Not classified

<b>Urea (57-13-6)</b>	
LD50 Oral Rat	8471 mg/kg
<b>Formaldehyde (50-00-0)</b>	
LD50 Oral Rat	100 mg/kg
LD50 Dermal Rat	270 mg/kg
LC50 Inhalation Rat	< 463 ppm/4h
<b>Urea, polymer with formaldehyde (9011-05-6)</b>	
LD50 Oral Rat	8394 mg/kg
LD50 Dermal Rat	> 2100 mg/kg
LC50 Inhalation Rat	> 167 mg/m <sup>3</sup> (Exposure time: 4 h)
<b>Formaldehyde-melamine polymer (9003-08-1)</b>	
LD50 Oral Rat	> 10 g/kg
LD50 Dermal Rabbit	> 10 g/kg
<b>Titanium dioxide (13463-67-7)</b>	
LD50 Oral Rat	> 10000 mg/kg
LC50 Inhalation Rat	5.09 mg/l/4h
<b>Boric acid (H3BO3) (10043-35-3)</b>	
LD50 Oral Rat	2660 mg/kg

LD50 Dermal Rabbit	> 2000 mg/kg
<b>Carbon black (1333-86-4)</b>	
LD50 Oral Rat	> 8000 mg/kg
LC50 Inhalation Rat	> 4.6 mg/m <sup>3</sup> (Exposure time: 4 h)

**Skin Corrosion/Irritation:** Not classified

**Serious Eye Damage/Irritation:** Classification as delivered: Not classified

Classification for physical alteration resulting in dust or fume: Causes serious eye irritation.

**Respiratory or Skin Sensitization:** Classification as delivered: Not classified

Classification for physical alteration resulting in dust or fume: May cause an allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

**Germ Cell Mutagenicity:** Not classified

**Carcinogenicity:** Classification as delivered: Not classified

Classification for physical alteration resulting in dust or fume: May cause cancer (Inhalation).

<b>Wood dust, all soft and hard woods</b>	
IARC group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.
<b>Formaldehyde (50-00-0)</b>	
IARC group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.
<b>Titanium dioxide (13463-67-7)</b>	
IARC group	2B
<b>Carbon black (1333-86-4)</b>	
IARC group	2B

**Reproductive Toxicity:** Classification as delivered: Not classified

Classification for physical alteration resulting in dust or fume: May damage fertility or the unborn child (oral).

**Specific Target Organ Toxicity (Single Exposure):** Classification as delivered: Not classified

Classification for physical alteration resulting in dust or fume: May cause respiratory irritation.

**Specific Target Organ Toxicity (Repeated Exposure):** Classification as delivered: Not classified

Classification for physical alteration resulting in dust or fume: Causes damage to organs (lungs) through prolonged or repeated exposure (Inhalation).

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** For particulates and dust: Irritation of the respiratory tract and the other mucous membranes. Exposure may produce cough, mucous secretions, shortness of breath, chest tightness or other symptoms indicative of an allergic/sensitization reaction.

**Symptoms/Injuries After Skin Contact:** Direct contact may cause irritation by mechanical abrasion. For particulates and dust: May cause an allergic skin reaction.

**Symptoms/Injuries After Eye Contact:** Contact may cause irritation due to mechanical abrasion. For particulates and dust: Contact causes severe irritation with redness and swelling of the conjunctiva.

**Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects. May damage fertility or the unborn child.

**Chronic Symptoms:** Ingestion may damage fertility or the unborn child. Prolonged inhalation of wood dust is known to cause cancer of the respiratory system and lung disease. Repeated or prolonged exposure to titanium dioxide dust via inhalation is suspected of causing cancer of the respiratory tract. Carbon black is classified under the IARC as 2B, "possibly carcinogenic to humans" and under ACGIH as A3 "confirmed animal carcinogen with unknown relevance to humans".

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1. Toxicity

**Ecology - General** : Not classified.

<b>Urea (57-13-6)</b>	
LC50 Fish	16200 – 18300 mg/l (Exposure time: 96 h - Species: Poecilia reticulata)
EC50 Crustacea	3910 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
<b>Formaldehyde (50-00-0)</b>	
LC50 Fish 1	22.6 – 25.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Crustacea 1	2 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	1510 µg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Crustacea 2	11.3 – 18 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])



NOEC Chronic Crustacea	1 mg/l
<b>Carbon black (1333-86-4)</b>	
EC50 Crustacea	5600 mg/l (Exposure time: 24 h - Species: Daphnia magna)
<b>Boric acid (H3BO3) (10043-35-3)</b>	
LC50 Fish	447 mg/l
EC50 Crustacea	115 – 153 mg/l (Exposure time: 48 h - Species: Daphnia magna)
ErC50 Algae	290 mg/l
NOEC Chronic Fish	2.1 mg/l

### 12.2. Persistence and Degradability

<b>Fire-Rated (FR) Particleboard</b>	
Persistence and Degradability	Not established.

### 12.3. Bioaccumulative Potential

<b>Fire-Rated (FR) Particleboard</b>	
Bioaccumulative Potential	Not established.
<b>Urea (57-13-6)</b>	
BCF Fish	< 10
Partition coefficient n-octanol/water (Log Pow)	-1.59 (at 25 °C)
<b>Formaldehyde (50-00-0)</b>	
Partition coefficient n-octanol/water (Log Pow)	0.35 (at 25 °C)
<b>Boric acid (H3BO3) (10043-35-3)</b>	
BCF Fish	0
Partition coefficient n-octanol/water (Log Pow)	-0.757 (at 25 °C)

### 12.4. Mobility in Soil

No additional information available

### 12.5. Other Adverse Effects

**Other Information** : Avoid unintended release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste Treatment Methods

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, and international regulations.

**Ecology - Waste Materials:** Avoid unintended release to the environment.

## SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

### 14.1. In Accordance with DOT

Not regulated for transport

### 14.2. In Accordance with IMDG

Not regulated for transport

### 14.3. In Accordance with IATA

Not regulated for transport

## SECTION 15: REGULATORY INFORMATION

### 15.1. US Federal Regulations

<b>Fire-Rated (FR) Particleboard</b>	
SARA Section 311/312 Hazard Classes	Health hazard - Carcinogenicity Health hazard - Reproductive toxicity Health hazard - Respiratory or skin sensitization Health hazard - Serious eye damage or eye irritation Health hazard - Specific target organ toxicity (single or repeated exposure) Physical hazard - Combustible dust
<b>Urea (57-13-6)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Formaldehyde (50-00-0)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	



# Fire-Rated (FR) Particleboard

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Listed on the United States SARA Section 302	
Subject to reporting requirements of United States SARA Section 313	
<b>CERCLA RQ</b>	100 lb
<b>SARA Section 302 Threshold Planning Quantity (TPQ)</b>	500 lb
<b>SARA Section 313 - Emission Reporting</b>	0.1 %
<b>Urea, polymer with formaldehyde (9011-05-6)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>EPA TSCA Regulatory Flag</b>	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
<b>Urea, polymer with formaldehyde and 1,3,5-triazine-2,4,6-triamine (25036-13-9)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>EPA TSCA Regulatory Flag</b>	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
<b>Formaldehyde-melamine polymer (9003-08-1)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>EPA TSCA Regulatory Flag</b>	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
<b>Titanium dioxide (13463-67-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Carbon black (1333-86-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Boric acid (H3BO3) (10043-35-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	

### 15.2. US State Regulations

<b>Wood dust, all soft and hard woods</b>	
U.S. - New Jersey - Right to Know Hazardous Substance List	
U.S. - Pennsylvania - RTK (Right to Know) List	
<b>Formaldehyde (50-00-0)</b>	
U.S. - New Jersey - Right to Know Hazardous Substance List	
U.S. - Pennsylvania - RTK (Right to Know) List	
U.S. - Massachusetts - Right To Know List	
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances	
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List	
<b>Titanium dioxide (13463-67-7)</b>	
U.S. - New Jersey - Right to Know Hazardous Substance List	
U.S. - Pennsylvania - RTK (Right to Know) List	
U.S. - Massachusetts - Right To Know List	
<b>Carbon black (1333-86-4)</b>	
U.S. - New Jersey - Right to Know Hazardous Substance List	
U.S. - Pennsylvania - RTK (Right to Know) List	
U.S. - Massachusetts - Right To Know List	

### 15.3. Canadian Regulations

Wood and wood products are exempt from the requirement to have a WHMIS label and SDS.

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

<b>Date of Preparation or Latest Revision</b>	: 09/06/2022
<b>Other Information</b>	: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

### GHS Full Text Phrases:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhalation) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2

# Fire-Rated (FR) Particleboard

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Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Carc. 1A	Carcinogenicity Category 1A
Carc. 2	Carcinogenicity Category 2
Comb. Dust	Combustible Dust
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 3	Flammable liquids Category 3
Flam. Liq. 4	Flammable liquids Category 4
Muta. 2	Germ cell mutagenicity Category 2
Repr. 1B	Reproductive toxicity Category 1B
Resp. Sens. 1	Respiratory sensitization, Category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Sens. 1	Skin sensitization, Category 1
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapor
H227	Combustible liquid
H301	Toxic if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H334	May cause an allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H341	Suspected of causing genetic defects
H350	May cause cancer
H351	Suspected of causing cancer
H360	May damage fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H401	Toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. The information should not be construed as guaranteeing any specific property of the product. The information contained in this Safety Data Sheet is based on the experience of occupational health and safety professionals and comes from sources believed to be 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.*

SDS US (GHS HazCom)