

Safety Data Sheet

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Common Name Supplier/ Manufacturer

Ranger MDF

West Fraser.
Ranger Board, Box 6
Blue Ridge, Alberta,
T0E 0B0

www.westfraser.com

Emergency Contact

Call CHEMTREC 24h/24

Within the USA and Canada: 1.800.424.9300 Outside the USA and Canada: +1.703.527.3887

(collect calls accepted)

Synonym Trade Name Medium Density Fibreboard (MDF)

Product Description The product is used for furniture, cabinetry, flooring, and millwork. MDF is

manufactured from ligno-cellulosic fibers (wood and plant dry matter) bonded together with a formaldehyde containing binder, which may contain additives.

Note The hazards are determined based on wood dust (softwood) generated as a result

of cutting, sanding, or disturbing the product, and formaldehyde emissions which

may be present in trace quantities.

SECTION 2. HAZARD (S) IDENTIFICATION

GHS Classification This product is not classified as hazardous according to GHS criteria

WHIMS Classification This product is not classified as hazardous according to WIHMS criteria

Other Hazards Sawing, sanding, or machining processes performed on these products

may result in dust particles (wood dust and polymerized resin dust).

Emergency Overview Sawing, sanding, or machining wood or wood products can generate

combustible dust. Wood dust may ignite or form an explosive mixture with air in the presence of an ignition source. Product dust may be irritating to

the eyes, skin, or respiratory system

POTENTIAL HEALTH EFFECTS:

The wood panels in the purchase form do not represent a health hazard. The health effects mentioned below could happen if the board is mechanically processed, and dust particles (wood and polymerized resin)

are generated in the environment.

01.4001510.4510.11				
CLASSIFICATION:				
Combustible Dust	Category 1			
Acute Toxicity (Inhalation)	Category 4			
Skin Irritation	Category 2			
Eye Irritation	Category 2A			
Carcinogenicity	Category 1			
Specific Target Organ Toxicity (Single Expos	•			
Specific Target Organ Toxicity (Repeated Exp	posure) Category 1			
LABEL ELEMENTS:				
SIGNAL WORDS	DANGER			
HAZARD STATEMENT(S)				
H315	Causes skin irritation.			
H319	Causes serious eye irritation.			
H350	May cause cancer if inhaled.			
H332	Harmful if inhaled.			
H335	May cause respiratory irritation.			
H372	Causes damage to organs (respiratory system, lungs) through			
	prolonged or repeated exposure if inhaled.			
PRECAUTIONARY STATEMENT(S)				
Prevention:				
P260	Do not breathe dust.			
P271	Use only outdoors or in a well-ventilated area.			
P284	In case of inadequate ventilation wear respiratory protection (NIOSH			
	approved air-purifying respirator with N100, R100, or P100 filter).			
P264	Wash hands and skin thoroughly after handling.			
P280	Wear protective gloves/protective clothing/eye protection/face protection.			
P201	Obtain special instructions before use.			
P202	Do not handle until all safety precautions have been read and			
	understood.			
Response:				
P312	Call a POISON CENTRE or doctor if you feel unwell.			
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for			
	breathing.			
P321	Specific treatment (see supplemental first aid instruction on this label).			
P302 + P352	IF ON SKIN: Wash with plenty of water			
P332 +P313	If skin irritation occurs: Get medical advice/attention.			
P362 +P364	Take off contaminated clothing and wash it before reuse.			
P305 +P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove			
	contact lenses, if present and easy to do. Continue rinsing.			
P337 + P313	If eye irritation persists: Get medical advice/attention.			
Storage:				
P403	Store in a well-ventilated place.			
Disposal:				
P501	Dispose of contents and container in accordance with local, regional,			
	national, and international.			
OTHER HAZARDS				
	May form combustible dust concentrations in the air.			
	·			

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS				
Ingredients	CAS#	Wt. %	Other Identifiers	
Variety of softwood - But not Western Red Cedar	Not applicable	90-93	Wood dust (ligno-cellulosic materials)	
Cured Urea-Formaldehyde Polymer (less than 0.01% of free Formaldehyde) ¹	9011-05-6	6-12	Polymerized urea-formaldehyde resin	

Notes

Concentrations ranges of ingredients are presented according to WHMIS. The percentage of wood / ligno-cellulosic fibers (softwood species) is approximately 90% to 93%. The other compound present in MDF is urea polymer with formaldehyde (6% to 12% by weight) which is used to bond layers or strips of MDF together. Trace levels of formaldehyde may be emitted over time from decomposition or degradation of the bonding agent (urea polymer with formaldehyde). Formaldehyde concentrations are anticipated to be minimal (i.e., less than 0.1%). Ranger MDF is CARB compliant for NAF (complies with CCR 93120). It is expected that formaldehyde emissions decrease over time as MDF panels age.

The hazards presented for MDF products pertain to wood dust from softwood, allergenic and non-allergenic species. No CAS Number is available.

Concentrations are expressed in % weight/weight.

N.Av. = Not Available

SECTION	4. FIRST	AID MEASURE
---------	----------	-------------

Eye Contact Wood dust may cause mechanical irritation.

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, holding lids apart to ensure flushing of each entire eye. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical

advice or attention.

Skin Contact Various species of wood dust may cause allergic contact dermatitis in

sensitized individuals.

In case of contact, flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and footwear. Wash clothing before reuse Get medical attention if rash or persistent irritation or dermatitis occurs. Depending on the species, wood dust may cause respiratory sensitization

and/or irritation.

If inhaled, remove to fresh air. Get medical advice if persistent irritation,

severe coughing, or breathing difficulty occurs.

Ingestion Not likely to occur.

First Aid Comments Provide general supportive measures (comfort, warmth, rest). If exposed or

concerned, get medical advice/attention.

Notes to Physician Respiratory ailments or pre-existing skin conditions may be aggravated by

exposure to wood dust.

Most Important Symptoms and Effects, Acute

and Delayed

Inhalation

The information pertains to wood dust. Can irritate the nose and throat. Can cause lung injury. Symptoms may include coughing, shortness of breath, difficulty breathing, and tightness in the chest. May cause asthma or an asthma-like reaction in some people. Repeated or prolonged exposure can irritate the skin. May cause an allergic skin reaction in some people.

Immediate Medical Attention and Special Treatment

Target Organs Eyes, skin, and respiratory system.

Special Instruction Not available based on the literature reviewed.

Special instruction Not available based on the literature reviewe

Medical Conditions Aggravated by Exposure

No information on the pure product is available based on the literature reviewed. Information based on the ingredients indicates pre-existing skin and respiratory conditions.

SECTION 5. FIRE FIGHTING MEASURES

Flammability of the Product

Auto-ignition Temperature Flash Point

Flammable Limits

Extinguishing Media

Hazardous Combustion Products

Special Fire-Fighting Equipment/Procedure

Fire Hazards in the presence of Various Substances

Explosion Hazards in the presence of Various Substances

Sensitivity/mechanical impact Sensitivity/static discharge These wood-based panels are flammable but difficult to ignite.

204 to 260 °C

Not available.

Higher: undetermined (varies with composition particle size,

moisture level, rate of heating, and dust concentration).

Lower: 40 grams/m³ (LEL) wood dust.

Use water spray, dry chemical, or carbon dioxide when fighting fires involving this material. Dry sand or earth can be used for a

small fire.

Burning of wood panels produces irritating and toxic emissions, including carbon dioxide, carbon monoxide, noxious fumes, aldehydes, organic acids, and polynuclear aromatic compounds.

Evacuate area. Fight fire from a safe distance or a protected

location. Approach fire from upwind to avoid hazardous vapors or gases.

Dust explosion hazard. Use water spray or fog to prevent dust formation and minimize the risk of explosion. If entry into the area is required wear positive pressure SCBA and full Bunker Gear.

There is a risk of fire/explosion when high concentrations of fine dust particles come in contact with a source of ignition such as heat or flame.

A dust explosion is strongly possible if dust concentrations rise to critical values (above 40 grams/m³) and a source of ignition is present (flame, heat, static discharge, etc.). May explode when in contact with strong acids and oxidants.

These products are not sensitive to mechanical impact.

These products are not sensitive to static discharge. However, fine dust clouds may be sensitive to static discharge and lead to explosive dust hazards.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
Environmental Precautions

Spill and Leak

Methods and Materials for Containment and Cleaning Up

Other Information

See protective measures in section 8.

Although none is specifically required for wood dust: it is good practice to prevent releases into the environment. If a large quantity of dust is inside a building, prevent it from entering drains, ventilation systems, and confined areas.

Not likely to occur as a wood panel. Wood dust spill, sweep with wet technique or vacuum, and avoid creating airborne dust conditions. Dried wood dust can be a source of combustible and explosion hazards. Remove ignition source and provide adequate ventilation where dust conditions may occur. Place recovered wood dust in a container for proper disposal.

Based on wood dust: Review Section 7 (Handling) of this safety data sheet before proceeding with clean-up. Apply water to the dust before cleaning up. Avoid dry sweeping or using pneumatic powered air hoses to blow away dust. A HEPA vacuum (explosion proof) may be used. Place dust into suitable, covered, labeled containers for disposal.

Report large dust releases into the environment to local health, safety, and environmental authorities, as required. Dispose of dust in accordance with municipal, province/state, and federal requirements.

SECTION 7. HANDLING AND STORAGE	
Safe Handling Procedures	Avoid any source of heat or ignition and avoid creating "clouds" of dust during mechanical processes (sawing, sanding, drilling) on the wood panels. Wood dust can be a source of fire and explosion hazards. Use in a well-ventilated area. Wash thoroughly after handling. Wash clothing before reuse. AVOID DUST CONTACT WITH EYES AND SKIN. AVOID BREATHING DUST.
Storage Requirement	Store away from incompatibles. Keep in a cool, dry, and well-ventilated area. Keep away from any ignition source. Comply with all applicable health and safety regulations, and fire and building codes.
Incompatibility	Avoid contact with oxidizing agents and drying oils. Avoid open flame.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION						
Ingredients	USA ACGIH (2022)	USA OSHA 29CFR1910.1000	ALBERTA OSHA (Part 4 – 2022)			
Varied species of softwood - But not Western Red Cedar	TLV-TWA (Inhalable Dust) 1 mg/m³ (A4)	PEL-TWA ¹ (Total Dust as PNOR) 15 mg/m ³ PEL-TWA ¹ (Total Dust) 5 mg/m ³ STEL-TWA ¹ (Total Dust) 10 mg/m ³	OEL-TWA ¹ (Total Dust as PNOR) 5 mg/m ³			
Cured Urea Formaldehyde Polymer. (less than 0.01% of free Formaldehyde)	None Established	None Established	None Established			
Formaldehyde ²	TWA/Ceiling 0.1 ppm STEL 0.2 ppm (A1)	PEL 0.75 ppm STEL 2.0 ppm (See 29CFR1910.1048)	OEL 0.75 ppm CEILING 1.0 ppm			

¹ In *AFI - CIO v. OSHA*, 965 F. 2d 962 (11th Cir. 1992), the court overturned OSHA's 1989 Air Contaminants Rule, including the specific PELs for wood dust that OSHA had established at that time. **The 1989 PELs were: TWA - 5.0 mg/m³**; **STEL(15 MIN.) - 10.0 mg/m³** (all soft and hardwoods, except Western Red Cedar); Western Red Cedar; TWA - 2.5 mg/m³.

Wood dust is now officially regulated as organic dust under the Particulates Not Otherwise Regulated (PNOR) or Inert or Nuisance Dust Categories at PELs noted under Section 8 of this MSDS. However, some states have incorporated provisions of the 1989 Standard in their state plans. Additionally, OSHA indicated that it might cite companies under the OSH Act General Duty Clause under appropriate circumstances for non-compliance with the 1989 PELs.

Allergenic and non-allergenic softwood species have an IARC 1 notation (Carcinogenic to Humans).

All softwood dusts have an ACGIH A4 notation (Not Classifiable as a Human Carcinogen).

Formaledhyde has an ACGIH and IARC A1 notation (Carcinogenic to Humans)

²The OSHA 'Action Level' for Formaldehyde is 0.5 ppm based on an 8-hour TWA under 29 CFR 1910.1048. This level is not achieved under normal occupational exposures to these products. The formaldehyde 8-hour TWA exposure limits under the British-Columbia, Alberta, Quebec and Ontario Occupational Health and Safety Act have the "As Low As Reasonably Achievable" (ALARA) designation.

Consult local authorities for provincial or state exposure limits. ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. TWA = Time-Weighted Average. STEL = Short-term Exposure Limit. C = Ceiling limit. OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits. I = Inhalable fraction. OEL = Occupational Exposure limit.

Engineering Controls

To reduce the exposure below the recommended exposure limits, control methods, including mechanical ventilation using dilution or control of the process, process conditions, or personal enclosure, must be considered. System design should consider the nature of contaminants and any explosive characteristics. Do not allow dust from the product to accumulate in the air in work or storage areas, or in confined spaces. Exhaust dust directly to the outside through explosion-proof ducting / ventilation systems, taking any necessary precautions for environmental protection. Eyewash stations are recommended.

Personal Protection

Eyes Not required if no transformation is performed on the product.

AVOID CONTACT WITH EYES.

Use safety glasses with side shields or dust-resistant safety goggles if the manual, mechanical cutting, or abrasion processes are performed on the product.

Body Not required if no transformation is performed on the product.

AVOID CONTACT WITH SKIN.

Coveralls or long-sleeved shirt is recommended if the manual, mechanical cutting, or abrasion processes are performed on the product.

Remove and wash dust-contaminated clothing before reuse.

Respiratory

Not required if no transformation is performed on the product.

AVOID BREATHING DUST.

When engineering controls and work practices are not effective in controlling exposure to recommended exposure limits, wear suitable respiratory protection. If a respirator is required, wear a minimum half facepiece respirator with P100 cartridges for protection against wood dust and their applicable exposure standards. Wear a half facepiece respirator for protection up to 10 times the exposure standard and a full facepiece respirator for protection up to 50 times the exposure standard.

Recommendations apply only to NIOSH approved respirators.

Consult an Industrial Hygienist for respirator decisions depending on the work environment.

Hands

AVOID CONTACT WITH SKIN.

Wear leather work gloves to protect the skin against mechanical irritation and splinters.

Advice on general, occupational hygiene

Do not eat, drink, and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before accessing the eating area.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Depend on wood species and **Physical state** Odor Solid

time since the panel was

produced.

Appearance Wood panel **Threshold Odor** Not available

Brown Light - Yellow Ha Not available Color

Melting /Freezing point (°C) Not available Vapour pressure (@20 °C) Not available Vapour density (Air=1) Boiling point (°C) Not available Not available Flashpoint (°C) Not available Solubility (in water) Not soluble **Evaporation rate** Coefficient of water/oil distribution Not available Not Available **Auto-ignition temperature** 204 to 260 °C **Decomposition temperature** Not available These wood panels are flammable in the presence of an ignition source

Flammability (solid, gas)

Upper flammability/explosive limit Higher: undetermined (varies with composition particle size, moisture level, rate of heating,

(% by volume) and dust concentration) Lower flammability/explosive limit 40 grams/m³ (wood dust)

(% by volume) A dust explosion is strongly possible if dust concentrations rise to critical values (above 40

grams/m³) and if there is a source of ignition present (flame, heat, static discharge, etc.)

Variable (dependent on wood species and moisture content) (<1) Relative density (@25 °C)

Viscosity Not applicable

SECTION 10.STABILITY AND REACTIVITY

Reactivity No information on the pure product or for the ingredient urea polymer with

formaldehyde.

Based on wood dust: Not reactive under normal conditions of use. Wood dust is reactive with oxidizing materials. Combustible in the presence of the following

materials or conditions: open flames, sparks, and static discharge.

Stability No information on the pure product or for the ingredient urea polymer with

formaldehyde.

Based on wood dust: Normally stable. Under normal conditions of storage and use,

hazardous polymerization will not occur

No information on the pure product or for the ingredient urea polymer with Possible hazardous reactions

formaldehyde. Based on wood dust: None expected under normal conditions of

storage and use.

Conditions to avoid No information on the pure product or for the ingredient urea polymer with

formaldehyde.

Based on wood dust: Generation of dust through cutting, sanding, or disturbing the pure product. Open flames, sparks, static discharge, heat, and other ignition sources. May form explosive dust-air mixtures. Temperatures above 204.0 °C

(399.2 °F)

Materials to avoid, and incompatibility No information on the pure product or for the ingredient urea polymer with

formaldehyde. Based on wood dust: Wood dust is incompatible with oxidizing

materials.

Hazardous decomposition products No information on the pure product or for the ingredient urea polymer with

> formaldehyde (although trace amounts of formaldehyde may be released). Based on wood dust: Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

If a fire occurs, hazardous combustion products will be emitted: carbon monoxide, carbon dioxide, soot, and toxic and irritating fumes and gases, such as aldehydes,

organic acids, and polynuclear aromatic compounds.

SECTION 11.TOXICOLOGICAL INFORMATION

In purchase form, these products do not represent a health hazard

Routes of exposures
Toxicological data
Inhalation, skin, and eye contact
No test data exists on the purchased form products. Listed below are the data available on individual chemical ingredients entering the wood panels and wood dust composition.

Exposure to wood dust may cause asthmatic symptoms and signs.

LC_{50 (4-hours)} **GHS** LD_{50} **Chemical ingredients** Dermal Irritation Oral Inhalation >167 mg/m³ 8,394 >2,100 Acute toxicity, **Urea Polymer with Formaldehyde** mg/kg mg/kg No Data Inhalation of dust, (rat) category 2 (rat) (rat) 0,20 - 0.59 100 - 830 270 mg/l Acute toxicity, Free Formaldehyde mg/kg No Data Inhalation of dust, mg/kg (rat) (rabbit) 0.45 mg/l category 1 (rat) (mouse) Variety of Softwood No Data No Data No Data No Data No Data

No information is available for the pure product based on the literature reviewed. Information for the product ingredients is presented where available.

Inhalation ATEmix = 1.28 mg/L (4-hour exposure) (dust/mist)

0% of the mixture consists of an ingredient or ingredients of unknown acute toxicity (inhalation)

Oral ATEmix = 64569.23 mg/kg

- But not Western Red Cedar

0% of the mixture consists of an ingredient or ingredients of unknown acute toxicity (oral)

Dermal ATEmix = 16153.85 mg/kg

0% of the mixture consists of an ingredient or ingredients of unknown acute toxicity (dermal

Skin Irritation

Eye Irritation

Skin Sensitization

Respiratory Sensitization

No test data is available on the wood panel itself. Data available on identified ingredients are listed below.

Dermatitis has been reported in humans; the nature of the wood and the origin of the dust have to be taken into consideration during the cutting or sanding operations of this product.

Urea-formaldehyde polymer - One test on a rodent/rabbit resulted in a severe reaction to the skin.

No test data is available on the wood panel itself. Data available on identified ingredients are listed below.

Conjunctivitis has been reported in humans. The nature of the wood and the origin of the dust have to be taken into consideration. Urea-formaldehyde polymer - One test on a rodent/rabbit resulted in a severe reaction to the eyes.

No test data is available on the wood panel itself. Data available on identified ingredients are listed below.

Repeated exposure to some species of wood and the sensitivity of some workers may cause the outbreak of some allergies that can become a potential health hazard to these individuals.

However, considering the small quantity of the resin contained in these products and the polymerization of the polymer during the press cycle, the risk of exposure to formaldehyde during cutting or sanding operations must be considered very low.

No test data is available on the product itself. Data available on identified ingredients are listed below.

Inhalation of wood dust may sensitize the respiratory system and cause asthmatic symptoms and signs.

People with existing respiratory tract ailments (e.g., bronchitis) should avoid exposure to wood dust as they may suffer severe irritation and difficulty breathing.

Some reports suggest that formaldehyde may cause respiratory sensitization, such as asthma, and pre-existing respiratory sensitization may be aggravated by exposure.

Mutagenicity

Carcinogenicity

However, considering the small quantity of the polymer contained in these products and the polymerization of the resin during the press cycle, the risk of exposure to formaldehyde during cutting or sanding operations must be considered very low.

No test data is available on the product itself. Data available on

identified ingredients are listed below.

Data on wood dust suggests that exposure to wood dust may

cause cellular changes in the nasal epithelium.

No test data is available on the product itself. Data available on identified ingradients are listed below.

identified ingredients are listed below.

Formaldehyde IARC (Group 1) Human carcinogen

ACGIH (Group A1) Confirmed human carcinogen
NTP
Known to be a human carcinogen

Wood Dust IARC (Group 1) Human carcinogen

ACGIH (Group A1) Oak and beech - Confirmed human

carcinogen

ACGIH (Group A2) Birch, mahogany, teak, walnut - Suspected

human carcinogen

ACGIH (Group A4) All other wood dust - Not classifiable as a

human carcinogen

Not available.

NTP Known to be a human carcinogen Not available.

Teratogenicity
Synergetic Effects

Potential Health Effects

Inhalation Wood dust May cause irritation to the upper respiratory system.

Skin Wood dust may cause irritation to the skin.

Eyes Wood dust may cause chemical and/or me

Wood dust may cause chemical and/or mechanical irritation to the

eye.

Ingestion Not likely to occur.

STOT (Specific Target Organ Toxicity) - Single

Exposure

Inhalation No information is available for the pure product based on

the literature reviewed. Ingredients with information available

are presented:

Softwood, allergenic and non-allergenic species - Handling and/or processing this material may generate dust which

can cause respiratory tract irritation, asthma,

coughing/wheezing, allergic reactions, and sinusitis.

Skin Absorption No information is available for the pure product or the

ingredients based on the literature reviewed

Ingestion No information is available for the pure product or the

ingredients based on the literature reviewed.

Aspiration Hazard No information is available for the pure product or the

ingredients based on the literature reviewed.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

Inhalation

No information is available for the pure product based on

the literature reviewed. Ingredients with information available

are presented:

Softwood, allergenic, and non-allergenic species - Repeated inhalation of dust can produce varying degrees of

respiratory irritation or lung damage. Chronic exposure to wood dust can result in dermatitis reactions, asthma,

pneumonitis, coughing, changes in the nasal mucosa, wheezing, fever, and other signs and symptoms associated

Respiratory and/or Skin Sensitization with chronic bronchitis.

No information is available for the pure product or the

ingredients based on the literature reviewed.

SECTION 12.ECOLOGICAL INFORMATION

Ecotoxicity

Persistence and degradability

Not available. The product has not been tested.

The product has not been tested. Depending on the kind of wood

Possibly hazardous short-term degradation products are unlikely. Long-term degradation products may arise due to Formaldehyde.

Not available. The product has not been tested. Not available. The product has not been tested.

Not available. The product has not been tested.

Bioaccumulation potential

Mobility in soil

Results of PBT and vPvB assessment

Other adverse effects

Formaldehyde Formaldehyde is acutely toxic for aquatic organisms

Category	Species	Test	Result	GHS Acute Hazard Category
Algae (Fresh water)	Scenedesmus quadricauda	Not specified	24 h EC50 = 14.7 mg/l	3
Invertebrates		DIN 38412 Part 11	24 h EC50 = 42 mg/l	3
(Fresh Water)	Daphnia magna	OECD Guideline 203	48 h EC50 = 29 mg/l	3
	Morone Saxatilis	Not Specified	96 h LC50 = 6.7 mg/l	2
Fish (Fresh Water)	Fathead minnow	Flow-through	96 h L50 = 24.1 mg/l	3
	Micropterus Dolomieu	Not Specified	96 h LC50 = 54.4 mg/l	3

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Information

Canadian Environmental Protection Act: Not hazardous waste as sold. Comply with all provincial and local regulations. Incineration or dry-land disposal is acceptable in most jurisdictions.

Resource Conservation and Recovery Act (RCRA): Not a United States Environmental Protection Agency (EPA) hazardous waste as sold. Comply with all state and local regulations. It is the user's responsibility to determine at the time of disposal if their waste product meets RCRA, Title 40 CFR 261 criteria for hazardous wastes. Incineration or dryland disposal is acceptable in most jurisdictions.

SECTION 14.TRANSPORT INFORMATION						
Regulatory Information	U.N. Number	Proper Shipping Name	Classes	Packing Group	Label	Other Information
Canada - TDG Classification	NR	NR	NR	NR	NR	None
US - DOT Classification	NR	NR	NR	NR	NR	None
ICAO/IATA	NR	NR	NR	NR	NR	None

Environmental Hazards

Special Precautions for User

Transport in Bulk According to Annex II of MARPOL 73/78

and the IBC Code

Emergency Response Guide No.

Marine pollutant

Not applicable

Please note: No information is available based on the literature

reviewed.

Not applicable

No information is available for the pure product.

No component of this product is listed as a marine pollutant by

the DOT (49 CFR 172.101, Appendix B.)

SECTION 15.REGULATORY INFORMATION

U.S. Federal Regulations

The product in purchase form is not controlled under the US Hazard Communication Rule (29 CFR 1900.1200).

TSCA

All listed ingredients that appear on the TSCA inventory are exempted.

CERCLA

Formaldehyde (100 lbs reportable quantity) is on the CERCLA chemical substance inventory.

OSHA

Wood products are not hazardous under the criteria of the federal OSHA Hazard Communication Standard 29 CFR 1910.1200 (Hazcom 2012).). However, wood dust and other chemical substances generated by mechanical activities performed on this product are regulated under this standard. Workplace exposure to Formaldehyde is specifically regulated under 29 CFR 1910.1048.

SARA Title III Section 311/312 Hazard Category:

Hazard classification under 40 CFR 370 Hazard Classes:

An immediate acute health hazard	Yes	A delayed chronic health hazard	Yes	A Fire Hazard	Yes
A corrosive hazard	No	A reactive hazard	No	A sudden release Hazard	No

SARA Section 313 Reporting:

US State Notifications, Warnings, Right-to-Know

This product does not contain any chemical substance(s) listed under 40 CFR 372.65 and in concentrations that should require reporting under SARA 313.

While freshly pressed or depending on the environmental conditions (temperature and relative humidity), a minimal level of Formaldehyde may be released from the panels.

The chamber tests performed on OSB panels and conducted by the APA Engineered Association has demonstrated that the formaldehyde level from the off-gas of these types of the panel was negligible (below 0.1 ppm).

However, the user should ensure that its specific mechanical process, handling, storage, and ventilation conditions will not contribute to formaldehyde emission exceeding the safe threshold level.

California Proposition 65

Warning

Drilling, sawing, sanding, 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 to avoid inhaling wood dust (California Health and Safety Code Section 25249.6).

New Jersey

Machined processes performed on these wood panels may generate wood dust. A very small quantity of formaldehyde vapor may be released from the hot panel. All these substances are on New Jersey's Hazardous Substance Lists.

Pennsylvania

Machined processes performed on these wood panels may generate wood dust. A very small quantity of formaldehyde vapor may be released from the hot panel. All these substances are on Pennsylvania's Appendix A, Hazardous Substance Lists.

Minnesota

Machined processes performed on these wood panels may generate wood dust. A very small quantity of formaldehyde vapor may be released from the hot panel. All of these substances are listed on the Minnesota Right-to-Know Chapter 5206 Section 5 Hazardous Substance List.

Canadian Regulations		The product is	not controlled under WHMIS.	
		Controlled Prod	It has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains a the information required by the CPR.	
WH	HMIS Classification	See Section 2		
	DSL	Excepted wood (Domestic Subs	I, all listed ingredients appear on the DSL stance List) list	
International Regulations				
	Europe Inventory	(CLP)	All components are listed or exempted and the product is exempted	
A	ustralian inventory	(AICS)	All components are listed or exempted and the product is exempted	
	China inventory	(IECSC)	All components are listed or exempted and the product is exempted	
	Japan inventory	(ENCS)	All components are listed or exempted and the product is exempted	
	Japan inventory	(ISHL)	All components are listed or exempted and the product is exempted	
	Korea inventory	(KECI)	Not determined.	
New	Zealand Inventory	(NZIoC)	All components are listed or exempted and the product is exempted	
Ph	nilippines inventory	(PICCS)	All components are listed or exempted and the product is exempted	

SECTION 16. OTHER INFORMATION

HMIS Rating

Protective Equipment

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 -

Serious; 4 - Severe

NFPA Rating



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Ol	
Glossary Terms	
ACGIH	American Conference of Governmental Industrial Hygienists
CSA	Chemical Abstracts System Number
CFR	Code of Federal Regulation
GHS	Globally Harmonized System
IARC	International Agency for Research on Cancer
LC50	Concentration L50 (the concentration in air of a chemical that kills 50% of an experimental animal population)
LD50	Lethal Dose 50 (the administered dose of a chemical that kills 50% of an experimental animals population)
LEL	Lower Explosion Limit
mg/kg	Milligram per kilogram
mg/m³	Milligram per cubic meter
MSHA	Mining Safety and Health Administration
NIOSH	National Institute of Occupational Safety and Health
NFPA	National Fire Protection Association
NR	Not Regulated
NTP	National Toxicology Program
OECD	Organization for Economic Co-operation and Development
OEL	Occupational Exposure Limit
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit

PPM Parts per million

RCRA Resource Conservation and Recovery Act
STEL Short –Term Exposure Limit (United States)
STEV Short-Term Exposure Value (Ontario)
TWA Time Weighted Average (United States)
TWAEV Time Weighted Average Value (Ontario)

VEMP Valeur d'exposition moyenne pondérée (Québec) = TWAEV = TWA
VECD Valeur d'exposition de courte durée (Québec) = STEV = STEL

WHISM Workplace Hazardous Materials Information System

Other Special Considerations

This 16 heading format SDS complies with or exceeds the Canadian WHMIS criteria, the GHS, and the

OSHA hazard communication standard 29 CFR 1910.1200. (Hazcom 2012).

Preparation Date: 03/10/2016 Revision Date: 06/03/2022

Version:1.2 SDS No. 004 Modifications:

New SDS Format.

Emergency Contact

Minor Clerical Changes

References:

Alberta Occupational Health and Safety Act, Occupational Health and Safety Code, Schedule

Chemical Substances. 2009

Agency for Toxic Substances and Disease Registry (ATSDR). Viewed June 2022. Available at: http://www.atsdr.cdc.gov/toxprofiles/index.asp

American Conference of Governmental Industrial Hygienists. 2022. Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices.

Canadian Centre for Occupational Health and Safety (CCOHS) - Multiple databases: Chempendium / Cheminfo / Cesars / HSDB / RTECS / TDG / DSI-NDSL / NIOSH

Pocket Guide database. Viewed June 2022. Available at: http://ccinfoweb2.ccohs.ca/cheminfo/records/20E.html

ESIS (European Chemical Substances Information System) / European Chemicals Agency (ECHA). Viewed June 2022. Available at:

http://echa.europa.

eu/information-on-chemicals; jsessionid=27D3D23CAC10DA9D6BA7DF26DA012804.live1

International Agency for Research on Cancer (IARC). Viewed June 2022. Available at: http://monographs.iarc.fr/

International Programme on Chemical Safety (IPCS)-Inchem. Viewed June 2022. Available at: http://www.inchem.org/

National Toxicology Program (NTP). Viewed June 2022. Available at: http://ntp.niehs.nih.gov/pubhealth/roc/roc13/index.html

United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS) Ninth Revised Edition. 2021.

US Environmental Protection Agency (EPA) Integrated Risk Information System (IRIS). Viewed June 2022. Available at: http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?IRIS

References:

US EPA Envirofacts. Viewed June 2022. Available at: http://www.epa.gov/enviro/html/emci/emci_query.html

WorkSafeBC. Part 5 Regulations. Viewed June 2022. Available at: http://www2.worksafebc.com/Publications/OHSRegulation/Part5.asp

Carex Canada. Viewed June 2022. Available at: http://www.carexcanada.ca/en/wood_dust/?print

National Institute for Occupational Safety and Health. Viewed June 2022. Available at: http://www.cdc.gov/niosh/pel88/wooddust.html

American Conference of Governmental Industrial Hygienists. Wood Dust. 2005

Notice to Reader

This product has been classified in accordance with the hazard criteria for the Controlled Products Regulations (CPR) and the Global Harmonized System (GHS) and the MSDS / SDS contains all of the information required by the CPR and GHS." At the time of preparation, the information and data contained in this MSDS / SDS are believed to be accurate and have been compiled from sources that are believed to be reliable (e.g., CCOHS CHEMINFO, HSDB, RTECS, DSL/NDSL, ESIS, ECHA, online information).

West Fraser provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. Accordingly, West Fraser will not be responsible for damages resulting from the use of or reliance upon this information. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of this company's knowledge and believed accurate and reliable as of the date indicated