

# **Safety Data Sheet**

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Common Name** 

Supplier/ Manufacturer

# West Fraser Wood Ash

West Fraser 1 Toronto Street, Suite 600 Toronto, Ontario M5C 2W4 <u>www.westfraser.com</u>

#### **EMERGENCY CONTACT**

# Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

Synonym Wood Fly Ash

None

Trade Name

Product Description Uses

Mixture of wood ash, fly ash and bottom ash. This product is used for soil fertilization and/or soil stabilization.

### SECTION 2. HAZARD (S) IDENTIFICATION

GHS Classification/ OHSA HCS 2012	
	Skin irritation (Category 2) Serious eye damage (Category 1) Carcinogenicity (Category 1A) Specific target organ toxicity, single exposure, Respiratory tract irritation (Category 3) Specific target organ toxicity, repeated exposure (Category 1)
Signal Word	DANGER
Hazard Statements	Causes serious eye damage May cause lungs cancer by inhalation of dust. Causes damage to organs through prolonged or repeated exposure by inhalation of dust. Causes skin irritation May cause respiratory irritation
Precautionary Statements	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Wash skin 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 and eye protection.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS				
Ingredients	CAS #	Wt. %		
Ash (contains amorphous material and trace amount of metals below 0.1%)	68131-74-8	82-89		
Silicate Crystalline Quartz (SiO <sub>2</sub> )	14808-60-7	7-9		
Calcium Carbonate (CaCO <sub>3</sub> )	1305-78-8	1-2		
Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> )	1344-28-1	1-2		
Illite (K,Ca,Na)AlSi <sub>3</sub> O <sub>8</sub>	12173-60-3	1-2		
Feldspar (K,H <sub>3</sub> O)Al <sub>2</sub> (Si <sub>3</sub> Al)O <sub>10</sub> (OH) <sub>2</sub> •xH <sub>2</sub> O	68476-25-5	1-3		

SECTION 4. FIRST AID MEASURE	
Eye Contact	In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes, holding lids apart to ensure flushing of each entire eye. If irritation persists, get medical attention immediately.
Skin Contact	In case of skin contact, immediately flush skin with plenty of water for at least 15 minutes. Get medical attention if rash or persistent irritation or dermatitis occurs.

Inhalation	Wash clothing contaminated with ash dust or wet ash before reuse.
	If inhaled, remove to fresh air. Get medical advice if persistent irritation, severe
Ingestion	coughing or breathing difficulty occurs.
ingestion	Not likely to occur. Rinse mouth out with water. Never give anything by mouth if
	victim is unconscious or convulsing. If discomfort occurs, get medical attention.
Notes to Physician	Respiratory ailments or pre-existing skin conditions may be aggravated by exposure
	to ash dust.

SECTION 5. FIRE FIGHTING MEASU	JRES
Flammability of the Product	Not Flammable
Extinguishing Media	Use appropriate extinguisher for surrounding fire. Could be sand, fog spray or fine water mist.
Hazardous Combustion Products	No information available.
Special Fire-Fighting Equipment/Procedure	Firefighters must wear fire resistant protective equipment. Wear self-contained breathing apparatus with full face piece operated under positive pressure demand mode.
Fire Hazards in Presence of Various Substances	Not Flammable
Explosion Hazards in Presence of Various Substances	None.
Sensitivity/mechanical impact	None
Sensitivity/static discharge	None.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

clean spill. Ensure an HEPA filter is installed on the vacuum device to avoid release particulates in the environment during clean-up. Do not wash ash down sewage and drainage systems.	Personal Precautions Spill and Leak	
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Safe Handling Procedures	AVOID DUST CONTACT WITH EYES AND SKIN. AVOID BREATHING DUST.
Storage Requirement	Use in a well-ventilated area. Use in a manner that avoids creating "clouds" or airborne dust. Keep bulk ash dry until used. Wear eye protection, gloves and other protective clothing that are adapted to the tash being performed and the risks involved. Do not eat, do not drink and not smoke during use. Wash thoroughly after handling. Wash clothing before reuse. Piles of ash main retain heat for several hours. Be careful when handling ash o stepping on piles; it may be hot and unstable. Properly ground all pneumatic conveyance systems. The potential exists for static build-up and static discharge when moving ash through a plastic, non-conductive, o non-grounded pneumatic conveyance system. The static discharge may result in damage to equipment and injury to workers. Ash should be stored and transported in a covered bin or container.
Engulfment Hazard	To prevent burial or suffocation, do not enter a confined space such as a silo, bir bulk truck or vessel that stores or contains ash. Ash can buildup or adhere to the wa of a confined space. The ash can collapse, release or fall unexpectedly.
Incompatibility	Avoid contact with strong acids and oxidizing agents. Avoid open flame.

# WEST FRASER WOOD ASH

	JONTROLS /		SONAL PROTECTION		
	USA	4	USA	QUEBEC	
Ingredients	ACG		OSHA	OSHA	ONTARIO OSHA
	(201		29CFR1910.1000	(OEL S-2.1,	OEL-reg 833 (2013)
		•		r.15 - 2020)	
	TWA		PEL-TWA (T)		TWA (I)
Ash (contains amorphous	as PN		as PNOR	TWAEV (T)	as PNOS
material and trace of metals	10 mg		15 mg/m <sup>3</sup>	as PNOC	10 mg/m <sup>3</sup>
below 0.1%)	TWA	(R)	PEL-TWA (R)	10 mg/m <sup>3</sup>	TWA <sup>1</sup> (R)
,	as PN		as PNOR		as PNOS
	3 mg/	m³	5 mg/m <sup>3</sup>		3 mg/m <sup>3</sup>
	<b>T</b> )(1, <b>T</b> )(1)	A (D)			
Crystalline Silica Quartz (SiO <sub>2</sub> )	TVL-TW		30/(%SiO2 + 2) mg/m <sup>3</sup>	TWAEV (R)	TWAEV (R)
,	0.025 m	g/m <sup>3</sup>		0.1 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>
		(1)	10/(%SiO2 +2) mg/m <sup>3</sup>		
	TWA		PEL-TWA (T)		TWA (I)
	as PN		as PNOR	TWAEV (T)	as PNOS
Calcium Carbonate (CaCO <sub>3</sub> )	10 mg		15 mg/m <sup>3</sup>	as PNOC	10 mg/m <sup>3</sup>
	TWA		PEL-TWA <sup>1</sup> (R)	10 mg/m <sup>3</sup>	TWA <sup>1</sup> (R)
	as PN 3 mg/		5 mg/m <sup>3</sup>		as PNOS 3 mg/m³
	3 mg/	111	PEL-TWA (T)		3 mg/m²
			as PNOR		
	TVL-TW	A (R)	15 mg/m <sup>3</sup>	TWAEV (T)	TWAEV (T)
Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> )	1 mg/		PEL-TWA (R)	10mg/m <sup>3</sup>	10mg/m <sup>3</sup>
	i iiig/		as PNOR	roing/in	i oling/ili
			5 mg/m <sup>3</sup>		
	TWA	(I)	PEL-TWA (T)		TWA (I)
	as PN		as PNOR		as PNOS
	10 mg		15 mg/m <sup>3</sup>	TWAEV (T)	10 mg/m <sup>3</sup>
Illite	TWA		PEL-TWA (R)	as PNOC	TWA (R)
	as PN		as PNOR	10 mg/m <sup>3</sup>	as PNOS
	3 mg/		5 mg/m <sup>3</sup>		3 mg/m <sup>3</sup>
	TWĂ		PEL-TWA (T)		TWĂ (I)
	as PN		as PNOR		as PNOS
	10 mg		15 mg/m <sup>3</sup>	TWAEV (T)	10 mg/m <sup>3</sup>
Feldspar	TWĂ		PEL-TŴA (R)	as PNOC	TWA (R)
	as PN	òś	as PNOR	10 mg/m <sup>3</sup>	as PNOS
	3 mg/		5 mg/m <sup>3</sup>		3 mg/m <sup>3</sup>
(R) Respirable Fraction Dust (T	) Total Dust (I)				
Engineering Controls			onveying systems wheneve		
		airborne.	Wetting ash with water will r	educe airborne dust	. If a wet method is not
		feasible, le	ocal exhaust ventilation may	be needed to main	tain airborne concentration
			recommended exposure lin		
			stations are recommended.		
Personal Protection		Lyonaon			
	Eves		ONTACT WITH EYES.		
	Eyes			r duct registent oof	the googloo Suitable ave
			y glasses with side shields o		
			should always be worn whe	enever manual or m	echanical handling and/or
		using this			
		For more	details refer to ANSI or CSA	Standards.	
	Body	For more	details refer to ANSI or CSA ONTACT WITH SKIN.		
	Body	For more	details refer to ANSI or CSA		reduce contact with skin.
	Body	For more AVOID CO Wear Cov	details refer to ANSI or CSA <b>DNTACT WITH SKIN.</b> erall's. Long pants and shirt	s should be worn to	
	-	For more AVOID CO Wear Cov Remove a	details refer to ANSI or CSA <b>DNTACT WITH SKIN.</b> erall's. Long pants and shirt and wash dust contaminated	s should be worn to	
	Body Respiratory	For more AVOID CO Wear Cov Remove a AVOID BI	details refer to ANSI or CSA <b>DNTACT WITH SKIN.</b> erall's. Long pants and shirt and wash dust contaminated <b>REATHING DUST.</b>	s should be worn to clothing before reu	se.
	-	For more AVOID Co Wear Cov Remove a AVOID BI When eng	details refer to ANSI or CSA <b>DNTACT WITH SKIN.</b> erall's. Long pants and shirt and wash dust contaminated <b>REATHING DUST.</b> gineering controls and work p	s should be worn to clothing before reu practices are not eff	se. ective in controlling
	-	For more AVOID Co Wear Cov Remove a AVOID BI When eng exposure	details refer to ANSI or CSA <b>DNTACT WITH SKIN.</b> erall's. Long pants and shirt and wash dust contaminated <b>REATHING DUST.</b> gineering controls and work p below the recommended ex	s should be worn to clothing before reu practices are not eff posure limits, wear	se. ective in controlling suitable respiratory
	-	For more AVOID Co Wear Cow Remove a AVOID BI When eng exposure protection	details refer to ANSI or CSA <b>DNTACT WITH SKIN.</b> erall's. Long pants and shirt ind wash dust contaminated <b>REATHING DUST.</b> jineering controls and work ji below the recommended ex . If respirator required, use 1	s should be worn to clothing before reu practices are not eff posure limits, wear NIOSH/MSHA appro	se. ective in controlling suitable respiratory oved air-purifying N95 or
	-	For more AVOID Co Wear Cow Remove a AVOID BI When eng exposure protection higher. Co	details refer to ANSI or CSA <b>DNTACT WITH SKIN.</b> erall's. Long pants and shirt ind wash dust contaminated <b>REATHING DUST.</b> pineering controls and work p below the recommended ex . If respirator required, use for onsult the NIOSH pocket gui	s should be worn to clothing before reu practices are not eff posure limits, wear NIOSH/MSHA appro de for more details.	se. ective in controlling suitable respiratory oved air-purifying N95 or
	-	For more AVOID CO Wear Cow Remove a AVOID BI When eng exposure protection higher. Co http://www	details refer to ANSI or CSA <b>DNTACT WITH SKIN.</b> erall's. Long pants and shirt ind wash dust contaminated <b>REATHING DUST.</b> pineering controls and work p below the recommended ex . If respirator required, use f onsult the NIOSH pocket gui v.cdc.gov/niosh/npg/npgd06	s should be worn to clothing before reu practices are not eff posure limits, wear NIOSH/MSHA appro de for more details. 84.html	se. ective in controlling suitable respiratory oved air-purifying N95 or
	-	For more AVOID CO Wear Cov Remove a AVOID BI When eng exposure protection higher. Co http://www If the expo	details refer to ANSI or CSA <b>DNTACT WITH SKIN.</b> erall's. Long pants and shirt and wash dust contaminated <b>REATHING DUST.</b> gineering controls and work p below the recommended ex . If respirator required, use f onsult the NIOSH pocket gui v.cdc.gov/niosh/npg/npgd06 osure concentration is unknown	s should be worn to clothing before reu practices are not eff posure limits, wear NIOSH/MSHA appro de for more details. <u>84.html</u> own, any self-containe	se. ective in controlling suitable respiratory oved air-purifying N95 or ed breathing apparatus that ha
	-	For more AVOID CO Wear Cov Remove a AVOID BI When eng exposure protection higher. Co http://www If the expo a full facep	details refer to ANSI or CSA <b>DNTACT WITH SKIN.</b> erall's. Long pants and shirt ind wash dust contaminated <b>REATHING DUST.</b> pineering controls and work p below the recommended ex . If respirator required, use f onsult the NIOSH pocket gui v.cdc.gov/niosh/npg/npgd06	s should be worn to clothing before reu practices are not eff posure limits, wear NIOSH/MSHA appro de for more details. <u>84.html</u> own, any self-containe	se. ective in controlling suitable respiratory oved air-purifying N95 or ed breathing apparatus that ha
	Respiratory	For more AVOID CO Wear Cov Remove a AVOID BI When eng exposure protection higher. Co http://www If the expo a full facep worn.	details refer to ANSI or CSA <b>DNTACT WITH SKIN.</b> erall's. Long pants and shirt and wash dust contaminated <b>REATHING DUST.</b> gineering controls and work p below the recommended ex . If respirator required, use f posult the NIOSH pocket gui <u>v.cdc.gov/niosh/npg/npgd06</u> psure concentration is unknown tece and is operated in a pressu	s should be worn to clothing before reu practices are not eff posure limits, wear NIOSH/MSHA appro de for more details. <u>84.html</u> own, any self-containe	se. ective in controlling suitable respiratory oved air-purifying N95 or ed breathing apparatus that ha
	-	For more AVOID CO Wear Cov Remove a AVOID BI When eng exposure protection higher. Co http://www If the expo a full facep worn. AVOID CO	details refer to ANSI or CSA <b>DNTACT WITH SKIN.</b> erall's. Long pants and shirt and wash dust contaminated <b>REATHING DUST.</b> gineering controls and work p below the recommended ex . If respirator required, use f onsult the NIOSH pocket gui <u>Acdc.gov/niosh/npg/npgd06</u> psure concentration is unknow iece and is operated in a pressu <b>DNTACT WITH SKIN.</b>	s should be worn to clothing before reu practices are not eff posure limits, wear NIOSH/MSHA appro de for more details. <u>84.html</u> wm, any self-containe ure-demand or other p	se. ective in controlling suitable respiratory oved air-purifying N95 or ed breathing apparatus that has ositive-pressure mode must be
	Respiratory	For more AVOID CO Wear Cov Remove a AVOID BI When eng exposure protection higher. Co http://www If the expo a full facep worn. AVOID CO Wear imp	details refer to ANSI or CSA <b>DNTACT WITH SKIN.</b> erall's. Long pants and shirt and wash dust contaminated <b>REATHING DUST.</b> gineering controls and work p below the recommended ex . If respirator required, use f posult the NIOSH pocket gui <u>v.cdc.gov/niosh/npg/npgd06</u> psure concentration is unknown tece and is operated in a pressu	s should be worn to clothing before reu practices are not eff posure limits, wear NIOSH/MSHA appro de for more details. <u>84.html</u> own, any self-containe ure-demand or other p	se. ective in controlling suitable respiratory oved air-purifying N95 or ed breathing apparatus that has ositive-pressure mode must be n from contact with wet ash

# WEST FRASER WOOD ASH

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 to eating area.

Physical state	Solid		Odor	Slight burnt or charcoal odor
Appearance	Grey/black p contain solid	owder which may ified masses	Threshold Odor	None
рН		12.7 at 1% solution	Color	Light grey to black
Melting /Freezing Boiling point (°C Flash point (°C) Evaporation rate	)	Not applicable Not applicable Not applicable Not applicable	Vapor pressure (@20 °C) Vapor density (Air=1) Solubility (in water) Coefficient of water/oil distribution	Not applicable Not applicable Slight (<5%) Not applicable
Auto-ignition ten Flammability (So		Not available Not flammable	Decomposition temperature	Not applicable

Upper flammability/explosive limit (% by volume)	Undetermined (varies with composition particle size, moisture level, rate of heating and dust concentration)
Lower flammability/explosive	Not applicable
limit (% by volume)	Ash dust explosion is possible if in contained area and in presence of a source of ignition
	(flame, heat, static discharge, etc.).
Relative density (@25 °C)	Not applicable
Viscosity	Not applicable

SECTION 10.STABILITY AND REACTIVITY		
Reactivity	Not applicable	
Stability	Stable under normal conditions	
Possible hazardous reactions	Not hazardous reactions will occur	
Conditions to avoid	Keep away of ignition sources (excessive heat, open flames, sparks) and incompatible materials	
Materials to avoid and incompatibility	Ash dust can ignite if it comes in contact with strong acids, ammonium salts, aluminum metal and strong oxidizing agents.	
Hazardous decomposition products	None.	

SECTION 11.TOXICOLOGICAL INF	ORMATION	1			
Toxicological data No	Inhalation, skin and eyes contact No test data exists on the purchased form product. Listed below is the data available on individual chemical ingredients entering in the composition of the ash dust. Exposure to ash dust may cause asthmatic symptoms and signs.				
Chemical ingradients	LD <sub>50</sub>		LC <sub>50 (4-hours)</sub>		0110
Chemical ingredients	Oral	Dermal	Inhalation	Irritation	GHS
Crystalline Silica	>500 mg/kg (rat)	Not available	Not available		Carcinogenicity Cat.1A STOT RE Cat.1
Calcium Carbonate	6450 mg/kg (rat)	Not available	Not available		Acute toxicity, Oral Cat.5 Skin Irrit. Cat.2 Eye Dam. Cat.1 STOT SE Cat.3 STOT RE Cat.1
Aluminum Oxide	>5000 mg/kg (rat)	>2000 mg/kg (rabbit)	>2.6 ml/L/4h		STOT SE Cat.3 STOT RE Cat.1
Ash	Not available	Not available	Not available	Not available	Not available
Illite	Not available	Not available	Not available	Not available	Not available
Feldspar	Not available	Not available	Not available	Not available	Not available

Skin Instation	
Skin Irritation	CAUSES IRRITATION
	Dry skin, discomfort and irritation may be observed after skin contact exposure to ash dust.
Eye Irritation	CAUSES SEVERE IRRITATION AND EYE DAMAGE
	Exposure to ash dust may cause immediate or delayed irritation or inflammation.
Mutagenicity	No test data available on the product itself. Data available on identified ingredients listed
Carcinogenicity	gave negative result. No test data available on the product itself. Data available on identified ingredients are
Cructalling Silies (Quartz)	listed below.
Crystalline Silica (Quartz)	IARC (Group 1) Human carcinogen ACGIH (Group A2) Suspected human carcinogen
	NTP (Group 1) Known to be carcinogen
	The International Agency for Research on Cancer (IARC) concluded that there was "sufficient evidence in humans for the carcinogenicity of crystalline silica in the forms of
	quartz or cristobalite from occupational sources", and that there is "sufficient evidence in experimental animals for the carcinogenicity of quartz and cristobalite." The overall IARC evaluation was that "crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1)." The IARC evaluation noted that not all industrial circumstances studied showed evidence of carcinogenicity. For further information on the IARC evaluation, see IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Volume 68, Silica, Some Silicates" (1997). The National Toxicology Program's (NTP) Eleventh Annual Report on Carcinogens
	classifies "silica, crystalline (respirable size)" as a known human carcinogen.
Chronic Health Effects	
Crystalline Silica (Quartz)	
	SILICOSIS
<ul> <li>Serious disabling lung disease th crystalline silica dust to level above</li> </ul>	at can occur after many years (20 – 45 years) of prolonged or repeated exposures to respirable re the OEL
,	s of breath, progressively more difficult breathing (with or without exertion), cough, fever, fatigue,
	ave obvious signs or symptoms of disease and are particularly susceptible to tuberculosis.

• Individual with silicosis may not have obvious signs or symptoms of disease and are particularly susceptible to tuberculosis.

•	Three advanced forms of silicosis
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Simple/Chronic Silicosis	Accelerated Silicosis	Acute Silicosis
<ul> <li>Most common type of silicosis.</li> <li>Long-term exposure (10-30 years) to relatively low concentrations.</li> <li>Lung lesion &lt;1 cm in diameter.</li> <li>Primarily located in the upper lung area.</li> <li>Mild impairment of lung functioning.</li> <li>Disease may be progressive and develop into complicated/progressive massive fibrosis (PMF).</li> </ul>	<ul> <li>Very rare.</li> <li>Exposure to high concentrations over a short period (5-10 years).</li> <li>Lung lesion can appear within 5 years following the initial exposure.</li> <li>Fast progression of the disease.</li> <li>Similar to simple silicosis except that the lung lesions appear earlier and the progression is more rapid.</li> <li>Individual often develop rheumatoid arthritis and other autoimmune disorders.</li> <li>Disease may be progressive and develop into progressive massive fibrosis (PMF).</li> <li>itcated/PMF</li> </ul>	<ul> <li>Acute Sincosis</li> <li>Exposure to very high concentrations over a very short time period, sometimes as short as a few months.</li> <li>The silicosis can develop within a few weeks to 5 years after the exposure.</li> <li>Individuals are at severe risk of developing tuberculosis.</li> <li>Individuals are constantly short of breath and lose a great deal of weight.</li> <li>Rapidly progressive, incurable lung disease and is typically fatal.</li> </ul>
<ul> <li>More common in the accelerated silicosis</li> <li>At risk of developing tuberculosis.</li> </ul>	-	

Auto-immune Disease	Some case studies show that there is evidence that exposure to respirable crystalline silica (without silicosis) or that the disease silicosis may be associated with the increased incidence of several autoimmune disorders such as systemic sclerosis (thickening of the skin), lupus, rheumatoid arthritis and diseases affecting the kidneys.
Renal Disease	There is evidence that exposure to respirable crystalline silica (without silicosis) or that the disease silicosis is associated with the increased incidence of the end stage kidney disease and kidney dysfunction
Teratogenicity	Not available.
SECTION 12.ECOLOGICAL	INFORMATION
Ecotoxicity	Not available. This product has not tested.
Presistence and degrability	The term biodegradability as such is not applicable to inorganic compounds

DAICILY	Not available. This product has not tested.
stence and degrability	The term biodegradability, as such, is not applicable to inorganic com

Presistence and degrability	The term biodegradability, as such, is not applicable to inorganic compounds.
Bioaccumulation potential	Not available.
Mobility in soil	Not available. The product has not been tested.
Results of PBT and vPvB	Not available. The product has not been tested.
assessment	
Other adverse effects	No other information available at this moment.

#### SECTION 13. DISPOSAL CONSIDERATIONS

**Waste Information** 

Waste must be disposed of in accordance with all applicable federal, state, provincial and local environmental control regulations. It is the user's responsibility to determine at the time of disposal if your waste product meets RCRA, Title 40 CFR 261 criteria for hazardous wastes

	Name	Classes	Packing Group	Label	Other Information
NR	NR	NR	NR	NR	None
NR	NR	NR	NR	NR	None
NR	NR	NR	NR	NR	None
	NR	NR NR NR NR	NR     NR       NR     NR	NRNRNRNRNRNR	NR         NR         NR         NR

SECTION 15.REGULATORY INI	<b>ORMATION</b>					
U.S. Federal Regulations	The product is contract The product is contract the tensor of	The product is controlled under the US Hazard Communication Rule (29 CFR 1910.1200).				
TSCA	All listed ingredie	All listed ingredients appear on the TSCA inventory and/or exempted				
CERCLA	No material is lis	No material is listed on the CERCLA chemical substance inventory.				
OSHA		The product and all listed ingredients are controlled under the OSHA HCS 2012 (29 CFR 1910.1200) and must be included in the employer's hazard communication program.				
SARA Title III Section 311/312 Hazard Category:	This product has been evaluated to meet the following hazard definitions under 40 CFR 370 Hazard Classes					
	An immediate acute health hazard	Yes	A delayed chronic health hazard	Yes	A fire Hazard	No
	A corrosive hazard	No	A reactive hazard	No	A sudden release Hazard	No
SARA Section 313 Reporting:	This product does not contain any chemical substance(s) listed under 40 CFR 372.65 and in concentrations that should required reporting under SARA 313.					
State Right-to-Know						
California Proposition 65	Silica, crystalline cancer according	· ·	oarticles of respirable of California.	size) is an i	ingredient that	can cause

# WEST FRASER WOOD ASH

New Jersey		Crystalline Silica, calcium carbonate, aluminum oxide. All these substances are on the New Jersey's Hazardous Substance Lists.		
Pennsylvania		Crystalline Silica, calcium carbonate, aluminum oxide. All these substances are on the Pennsylvania's Appendix A, Hazardous Substance Lists.		
Canadian Regulations	•	This product contains calcium carbonate and crystalline silica (Quartz) that are controlled as E, D2A under WHMIS.		
		This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.		
DSL	All listed ingredients appear on the DSL (Domestic Substance List) list			
International Regulations				
Europe Inventory	(CLP)	All components are listed or exempted		
Australian inventory	(AICS)	All components are listed or exempted		
China inventory	(IECSC)	All components are listed or exempted		
Japan inventory	(ENCS)	All components are listed or exempted		
Japan inventory	(ISHL)	All components are listed or exempted		
Korea inventory	(KECI)	Not determined.		
New Zealand Inventory	(NZIoC)	All components are listed or exempted		
Philippines inventory	(PICCS)	All components are listed or exempted		

### SECTION 16. OTHER INFORMATION

HMIS Rat	ing			NFPA Rating
		1	Health	
		0	Flammability	
		0	Reactivity	
		E	Protective Equipment	]
				_
Glossary T	<b>Ferms</b>			
ACGIH	American C	Conference	e of Governmental Industrial Hy	/gienists

CSA Chemical Abstracts System Number

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 which kills 50% of a experimental animal population)
LD50	Lethal Dose 50 (the administered dose of a chemical which kills 50% of a experimental animals population)
LEL	Lower Explosion Limit
mg/kg	Milligram per kilogram
mg/m <sup>3</sup>	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
PNOR	Particles Not Otherwise Regulated
PNOS	Particles Not Otherwise Specified
PPM	Parts per million
RCRA	Resource Conservation and Recovery Act

Preparation	Date: 03/31/2015 Revision Date: 12/21/2021 Version:1.2	
Other Special Consideration		SHA
WHISM	Workplace Hazardous Materials Information System	
VECD	Valeur d'exposition de courte durée (Québec) = STEV = STEL	
VEMP	Valeur d'exposition moyenne pondérée (Québec) = TWAEV = TWA	
TWAEV	Time Weighted Average Value (Ontario)	
TWA	Time Weighted Average (United States - ACGIH)	
STEV	Short-Term Exposure Value (Ontario)	
STEL	Short –Term Exposure Limit (United States)	

#### Notice to Reader

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