

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Manufactured Softwood Shavings
Synonyms: Lodgepole pine, douglas fir, white spruce, and balsam.
Product Use: Drilling Fluids Waste Absorbent; General Purpose Absorbent; Livestock and Poultry Bedding.
Manufacturer/Supplier: Britewood Industries Ltd.
 2049 Davis Lake Road
 Chase, B.C. V0E 1M2
Website: www.britewood.ca
Phone Number: 250-804-3305
Emergency Phone: 250-372-1494
Date of Preparation: January 20, 2012

Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER
 MAY FORM COMBUSTIBLE DUST- AIR MIXTURE
 MAY IRRITATE EYES AND SKIN. INHALATION OF WOOD
 DUST MAY CAUSE CANCER.

Colour: Light yellow.
Physical State: Solid.
Odour: Pine.

WHMIS	Personal Protection Equipment	TDG (Ground)
Exempt. Wood product.		Not regulated.

Potential Health Effects: See Section 11 for more information.

Likely Routes of Exposure: Eye contact. Skin contact. Inhalation. Ingestion.

Inhalation: Inhalation of dust may cause respiratory tract irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Eye: Dust may be irritating to eyes. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Skin: Dust may be irritating to skin. Acute exposure can result in erythema, blistering, erosion and secondary infections of the skin, redness, scaling, itching, and vesicular dermatitis. Signs/symptoms may include localized redness, swelling, and itching.

Ingestion: Ingestion of product is unlikely. May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Medical Conditions Aggravated By Exposure: Not available.

Target Organs: Skin. Eyes. Gastrointestinal tract. Respiratory system.

Potential Environmental Effects: See Section 12 for more information.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Wt. %
Wood shavings	(various)	100

Section 4: FIRST AID MEASURES

- Inhalation:** Remove person to fresh air. If breathing has stopped apply artificial respiration. If signs/symptoms develop, get medical attention.
- Eye Contact:** Flush eyes with plenty of water to remove wood particles. If signs/symptoms persist, get medical attention.
- Skin Contact:** Wash skin with soap and water for at least 15 minutes. If signs/symptoms develop, get medical attention.
- Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
- General Advice:** In case of accident or if you feel unwell, seek medical advice immediately (show the label or MSDS where possible).
- Note to Physicians:** Symptoms may not appear immediately.

Section 5: FIRE FIGHTING MEASURES

Flammability: Wood dust is a strong to severe explosion hazard, if a dust "cloud" contacts an ignition source. Use water to wet down wood dust to reduce the likelihood of ignition or dispersion of dust into the air. Partially burned or scorched wood dust is especially hazardous if dispersed in air because of its explosivity. Remove burned or wet dust to open area after fire is extinguished.

Means of Extinction

Suitable Extinguishing Media: Use appropriate extinguishing media for surrounding fire. Apply extinguishing media carefully to avoid creating airborne dust.

Unsuitable Extinguishing Media: Not available.

Products of Combustion: Oxides of carbon.

Protection of Firefighters: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and self-contained breathing apparatus.

Explosion Data

Sensitivity to Mechanical Impact: This material is not sensitive to mechanical impact.

Sensitivity to Static Discharge: In the form of dust, this material is sensitive to static discharge and may form explosive mixtures with air.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental Precautions: Keep out of drains, sewers, ditches, and waterways.

Methods for Containment: Do not flush to sewer or allow to enter waterways.

Methods for Clean-Up: Use explosion-proof equipment. Dust can be a fire or explosion hazard. Sweep up and shovel into suitable containers for disposal.

Other Information: Dispose of in accordance with all federal, provincial and local regulations. Comply with federal, provincial, and local requirements for spill and/or release notification.

Section 7: HANDLING AND STORAGE

Handling:

Do not breathe dusts. Do not swallow. Avoid contact with skin and eyes. Keep away from heat, sparks, open flames, and hot surfaces. – No smoking. Handle and open container with care. When using do not eat or drink. Wash hands before eating, drinking, or smoking. See Section 8 for information on Personal Protective Equipment.

Storage:

Store in a cool, well-ventilated area, away from incompatibles (see Section 10). Keep container tightly closed and dry.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines
Component**

Wood dusts

ACGIH: 1 mg/m³ (TWA); A4; Inhalable fraction (2009) - (All other wood dusts)

OSHA: 5 mg/m³ (TWA); 10 mg/m³ (STEL) [Vacated] - (except Western red cedar)

Particles Not Otherwise Regulated (PNOR)

OSHA: 15 mg/m³ (Total dust) (TWA), 5 mg/m³ (Respirable fraction) (TWA);

PEL: Permissible Exposure Limit
TLV: Threshold Limit Value
TWA: Time-Weighted Average
STEL: Short-Term Exposure Limit
C: Ceiling

Engineering Controls:

Use ventilation adequate to keep exposures (airborne levels of dust) below recommended exposure limits. Use explosion-proof ventilation equipment.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Eye/Face Protection:

Safety glasses are recommended. Indirect vented, dust-tight goggles are required if dust is generated when handling this product.

Hand Protection:

Wear impervious gloves. Consult manufacturer specifications for further information.

Skin and Body Protection:

Wear suitable protective clothing. Clothing with full length sleeves and pants should be worn.

Respiratory Protection:

If engineering controls and ventilation are not sufficient to control exposure to below the allowable limits then an appropriate NIOSH/MSHA approved air-purifying respirator or self-contained breathing apparatus must be used. Supplied air breathing apparatus must be used when oxygen concentrations are low or if airborne concentrations exceed the limits of the air-purifying respirators.

General Hygiene Considerations:

Handle according to established industrial hygiene and safety practices.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light yellow wood shavings.
Colour:	Light yellow.
Odour:	Pine.
Odour Threshold:	Not available.
Physical State:	Solid.
pH:	Not available.
Viscosity:	Not available.
Melting Point:	Not available.
Boiling Point:	Not available.
Flash Point:	Not available.
Evaporation Rate:	Not available.
Lower Flammability Limit:	40 g/m ³
Upper Flammability Limit:	Not available.
Vapor Pressure:	Not available.
Vapor Density:	Not available.
Specific Gravity:	Variable.
Density:	Not available.
Solubility in Water:	Insoluble.
Coefficient of Water/Oil Distribution:	Not available.
Auto-ignition Temperature:	100 °C (212 °F)
Percent Volatile, wt. %:	Not available.
VOC content, wt. %:	Not available.

Section 10: STABILITY AND REACTIVITY

Stability:	Stable under normal storage conditions.
Conditions of Reactivity:	Explosive concentrations of dust may be ignited by contact with heat, sparks or open flame.
Incompatible Materials:	Strong oxidizers.
Hazardous Decomposition Products:	Not available.
Possibility of Hazardous Reactions:	None known.

Section 11: TOXICOLOGICAL INFORMATION

EFFECTS OF ACUTE EXPOSURE

Inhalation:	Inhalation of dust may cause respiratory tract irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.
Eye:	Dust may be irritating to eyes. Signs/symptoms may include redness, swelling, pain,

tearing, and blurred or hazy vision.

Skin: Dust may be irritating to skin. Acute exposure can result in erythema, blistering, erosion and secondary infections of the skin, redness, scaling, itching, and vesicular dermatitis. Signs/symptoms may include localized redness, swelling, and itching.

Ingestion: Ingestion of product is unlikely. May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Skin Sensitization: Not hazardous by WHMIS criteria.

Respiratory Sensitization: Not hazardous by WHMIS criteria.

EFFECTS OF CHRONIC EXPOSURE

Target Organs: Skin. Eyes. Gastrointestinal tract. Respiratory system.

Chronic Effects: Chronic exposure to wood dusts can result in dermatitis reactions, asthma, pneumonitis, and coughing, wheezing, fever and the other signs and symptoms associated with chronic bronchitis. Chronic exposure may also result in nasal cancer.

Carcinogenicity: May cause cancer. Inhalation of wood dusts have been shown to cause cancer in humans.

Component Carcinogenicity

Component	ACGIH	IARC	NTP	OSHA	Prop 65
Wood dust	A4	Group 1	List 1	OSHA Carcinogen	Listed.

Mutagenicity: Not hazardous by WHMIS criteria.

Reproductive Effects: Not hazardous by WHMIS criteria.

Developmental Effects

Teratogenicity: Not hazardous by WHMIS criteria.

Embryotoxicity: Not hazardous by WHMIS criteria.

Toxicologically Synergistic Materials: Not available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not expected to be ecotoxic.

Persistence / Degradability: Not available.

Bioaccumulation / Accumulation: Not available.

Mobility in Environment: Not available.

Section 13: DISPOSAL CONSIDERATIONS

Disposal Instructions: Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

Section 14: TRANSPORTATION INFORMATION

TDG

Proper Shipping Name: Not regulated.

Class: Not applicable.

UN Number: Not applicable.

Packing Group: Not applicable.

Label Code: Not applicable.

Section 15: REGULATORY INFORMATION

Chemical Inventories

Canada (DSL)

The components of this product are in compliance with the chemical notification requirements of the NSN Regulations under CEPA, 1999.

Federal Regulations

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Classification: Exempt. Wood product.

Hazard Symbols: None.

Section 16: OTHER INFORMATION

Disclaimer:

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for his own particular use.

Expiry Date: January 19, 2015

Version: 1.0

MSDS Prepared by: Aegis Regulatory Inc.

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