



Birchland Plywood-Veneer Limited

MATERIAL SAFETY DATA SHEET

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: Hardwood Plywood

Product No.: Not applicable

Synonyms: Hardwood plywood, plywood paneling, plywood

Molecular Formula: Not applicable/Mixture

Manufacturer Name:

Birchland Plywood-Veneer Ltd
HWY 17 East
Thessalon, Ontario, CANADA

Emergency Telephone:

CHEMTREC – (800) 424-9300 or (703) 527-3887

Intended Use: Construction material

2 HAZARDS IDENTIFICATION

General Information: Under normal handling, the product is expected to pose low health hazards as the ingredients are firmly embedded in a wood matrix. Dusts generating from sawing, sanding, or machining of this particleboard may pose the health hazards described in this MSDS.

Emergency Overview

Physical State: Solid (panel)

Color: Varies with formulation

Odor: Varies with formulation

WARNING!

Inhalation of wood dust may cause allergic respiratory reactions depending on wood type.

Dust may cause eye and respiratory tract irritation.

Potential Health Effects

Health effects listed are for wood dust:

Inhalation: Dust may cause nasal dryness, respiratory tract irritation, and allergic respiratory reactions. Exposure may include coughing, asthmatic breathing, and breathlessness.

Eye Contact: Dust may cause eye irritation. Exposure may include eye tearing, redness and discomfort.

Skin Contact: Dust may cause mechanical irritation. Exposure may cause irritation, dermatitis, rash and redness.

Ingestion: Not expected to be a route of entry.

Chronic Health Effects: The NTP and IARC classify wood dust as a carcinogen. Wood dust, depending on the species, may cause allergic contact dermatitis and respiratory sensitization with prolonged, repetitive contact or exposure to elevated dust levels. Prolonged exposure (depending on the species) of wood dust has shown to be associated with nasal cancer.

Target Organ(s): Nasal passages, lung

OSHA Regulatory Status: Wood products are not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. However, any wood dust or formaldehyde emissions generated by sawing, sanding or machining this product may be hazardous.

3 COMPOSITION / INFORMATION ON INGREDIENTS

General Information: This product is used as plywood, a construction material.

Chemical Name	CAS No.	Concentration
wood dust	not applicable	proprietary
synthetic adhesive	not applicable	proprietary
formaldehyde	50-00-0	< .08 ppm

This product does not contain urea-formaldehyde (UF) resins.

The ingredients of this product are bound together under heat and pressure.

Components not listed are not hazardous or are below reportable limits.

4 FIRST AID MEASURES

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Eye Contact: In case of contact with dust, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention.

Skin Contact: Wash with soap and water. If skin irritation develops, get medical attention. Wash clothing before reuse.

Ingestion: Not applicable

5 FIRE-FIGHTING MEASURES

Extinguishing Media: Water spray, carbon dioxide or dry chemical

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Unusual Fire & Explosion Hazards: Dust may form explosive dust-air mixtures. Depending on moisture content and particle diameter, wood dust may explode in the presence of an ignition source.

Hazardous Combustion Products: Burning of wood can produce irritating fumes and gases including carbon monoxide, carbon dioxide, aldehydes and organic acids.

6**ACCIDENTAL RELEASE MEASURES**

Personal Precautions: Wear appropriate personal protective equipment (See Section 8).

Spill Cleanup Methods: Not applicable for product in purchased form. Wood dust generated from sawing, sanding, or machining may be vacuumed or shoveled for recovery or disposal. Avoid generating dust.

7.**HANDLING AND STORAGE**

Handling: No special handling precautions are warranted for product in purchased form.

When the product is sawed, sanded, machined, or other abrading processes, wear appropriate personal protective equipment. See Section 8. Avoid breathing dust. Avoid getting dust into eyes. Use only with adequate ventilation. Wash thoroughly after handling.

Prevention of Fire and Explosion: Keep away from strong oxidizing agents. Minimize dust generation and accumulation. In the United States of America, refer to NFPA® Pamphlet No. 654, "Prevention of Fire and Dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastics Industries."

Storage: Store in a cool, dry place. Keep away from ignition sources when machining.

8**EXPOSURE CONTROLS / PERSONAL PROTECTION****Exposure Limits:**

Chemical Name	Source	Type	Exposure Limits	Notes
Wood dusts inhalable fraction	ACGIH	TWA	1 mg/m ³	Pulmonary function
Wood dust (all hard and softwoods)	OSHA	TWA	5 mg/m ³	--
Wood dust (total dust)	OSHA	TWA	15 mg/m ³	--
Formaldehyde	ACGIH	Ceiling Limit	0.3 ppm	Irritation
Formaldehyde	OSHA	TWA	0.75 ppm	--
Formaldehyde	OSHA	Action Level	0.5 ppm	--
Formaldehyde	OSHA	STEL	2 ppm	--

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne contaminants below established exposure limits.

Respiratory Protection: If engineering controls do not keep airborne concentrations below established exposure limits, wear a NIOSH-approved respiratory equipped with high efficiency particulate filter. Contact health and safety professionals for specific information.

Eye Protection: When sawing, sanding or machining this product, wear approved safety goggles or glasses with side shields. Wear a full-face respirator, if needed.

Hand Protection: Wear leather gloves. Contact health and safety professionals for additional information.

Skin Protection: Wear disposable coveralls, lab coat, or apron to prevent skin contact.

Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9	PHYSICAL AND CHEMICAL PROPERTIES
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Color: Varies with formulation

Odor: Varies with formulation

Odor Threshold: No data available

Physical State: Solid (panel)

pH: Not applicable

Melting Point: Not applicable

Freezing Point: Not applicable

Boiling Point: Not applicable

Flash Point: No data available

Evaporation Rate: No data available

Flammability Limit - Upper (%): No data available

Flammability Limit - Lower (%): No data available

Vapor Pressure: Not applicable

Vapor Density (Air=1): Not applicable

Specific Gravity: < 1 (estimated)

Solubility in Water: Insoluble

Solubility (Other): No data available

Partition Coefficient (n-Octanol/water): Not applicable

Auto-ignition Temperature: No data available.

Decomposition Temperature: No data available.

Viscosity: Not applicable

Percent Volatile: Not applicable

10	STABILITY AND REACTIVITY
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Stability: Stable.

Conditions to Avoid: Dust accumulation, sources of ignition, elevated temperatures.

Incompatible Materials: Strong oxidizing agents, strong acids.

Hazardous Decomposition Products:

At Elevated Temperatures: Carbon dioxide, carbon monoxide, aldehydes, organic acids

Possibility of Hazardous Reactions: Will not occur.

11 TOXICOLOGICAL INFORMATION

This product has not been tested for toxicological effects in purchased form.

Specified Substances:

OSHA lethal dose for wood dust = 0.5 – 5 g/kg

Listed Carcinogens:

Chemical Name	IARC	NTP	OSHA	ACGIH
Wood dust	Group 1 Carcinogenic to humans	Known Carcinogen	--	A4 – Not classifiable as a human carcinogen

Acute Effects: The dust, which may be generated during manual or mechanical cutting, drilling, sanding, or other abrading processes and the smoke generated by heating or cutting, may cause temporary irritation of the eyes and respiratory tract. Allergic skin and lung reactions have been reported with exposure to various wood dusts due to the chemicals presented in wood.

Chronic Effects: Wood dust, depending on the species, may cause respiratory sensitization and/or irritation. IARC classifies wood dust as a Group 1 carcinogen to humans. Long-term inhalation of wood dust, above exposure limits, can cause nasal lesions, bleeding, asthma, or possible pulmonary abnormalities (i.e. lung and nasal cancer).

12 ECOLOGICAL INFORMATION

This product has not been tested for environmental effects.

13 DISPOSAL CONSIDERATIONS

General Information: Dispose in accordance with applicable federal, state, and local regulations. Incinerate.

Disposal Methods: No specific disposal method required.

Recycle: This panel is recyclable.

14 TRANSPORT INFORMATION

DOT: Not Regulated

TDG: Not Regulated

IATA: Not Regulated

IMDG: Not Regulated

Canadian Controlled Products Regulations: This product has been classified according to the hazard criteria of the Canadian Controlled Products Regulations, Section 33, and the MSDS contains all required information.

WHMIS Classification: D/2/A

Inventory Status

This product or all components are listed on the following inventory: TSCA, DSL

US Regulations

CERCLA Hazardous Substance List (40 CFR 302.4): Not regulated

SARA Title III

Section 302 Extremely Hazardous Substances (40 CFR 355, Appendix A): Not regulated

Section 311/312 (40 CFR 370):

Acute (Immediate) Chronic (Delayed) Fire Reactive Pressure Generating

Section 313 Toxic Release Inventory (40 CFR 372): Not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

Regulated Component	Classification	CAS No.
Formaldehyde (solution)	Regulated Toxic Substance	50-00-0

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3):

Regulated Component	CAS No.	Reportable Quantities
Formaldehyde	50-00-0	100 lbs

Drug Enforcement Act: Not regulated.

TSCA:

TSCA Section 4(a) Final Test Rules & Testing Consent Orders: Not regulated.

TSCA Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt. E): Not regulated

TSCA Section 5(e) PMN-Substance Consent Orders: Not regulated

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated

State Regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING: This product contains a chemical that is known to the State of California to cause cancer.

CA Prop 65 Chemical(s): Formaldehyde (Gas)

Massachusetts Right-To-Know List: Formaldehyde

Michigan Critical Materials List (Michigan Natural Resources and Environmental Protection Act (Act. 451 of 1994)): Not listed

Minnesota Hazardous Substances List: Wood dust (all soft and hard woods)

New Jersey Right-To-Know List: None listed.

Pennsylvania Right-To-Know List: Wood dust (certain hardwoods and all softwoods)

Rhode Island Right-To-Know List: Wood dust

16	OTHER INFORMATION
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HAZARD RATINGS

	Health Hazard	Fire Hazard	Instability	Special Hazard
NFPA	1	1	0	NONE

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

NFPA Label colored diamond code: Blue - Health; Red - Flammability; Yellow - Instability; White - Special Hazards

	Health Hazard	Flammability	Physical Hazard	Personal Protection
HMIS	1*	1	0	E

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; *- Chronic Health Effect

Personal Protection codes: E – Safety glasses + gloves + dust mask

HMIS Label colored bar code: Blue - Health; Red - Flammability; Orange - Physical Hazards; White - Special

Issue Date: 24 July 2008

Supersedes Date: New

Disclaimer: To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.