

MATERIAL SAFETY DATA SHEET

ECO-CORE WHITE BIRCH MULTIPLY

➤ PRODUCT IDENTIFICATION

Timber Specie: Russian Birch Plywood
Product Name: White Birch Multiply

➤ PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour : Light tan to dark tan. Colour and odour are dependent on the plywood species.
Physical State : Solid
Boiling Point : Not applicable
PH : Not applicable
Melting Point : Not applicable
Vapour Pressure : Not applicable
Solubility in Water : Not applicable
Water : Not applicable
Vapour Density : Not applicable
Specific Gravity : <1.0
Average Density : Approximately 680 - 700 kg/m³
Formaldehyde Gas Emission Class: Super E0

No hazardous ingredients. No chemical residue is left on the surface of the board.

➤ HAZARDS IDENTIFICATION

Emergency Overview: Sawing, sanding or machining plywood products can produce plywood dust, which can cause an explosion hazard. Plywood dust may cause eye, nose and throat irritation.

Formaldehyde Gas Emission Test Certificate available on request.

Potential Health Effects

Inhalation: Plywood dust may cause nasal dryness, irritation and coughing.
Eye Contact: Plywood dust can cause mechanical irritation.
Skin Contact: Various species of plywood dust may evoke allergic contact dermatitis in sensitized individuals. If an allergy pre-exists or develops, it may be necessary to remove the sensitized worker from further exposure to plywood dust or plywood based products.
Ingestion: Not applicable under normal conditions of use

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➤ FIRST AID MEASURES

- Inhalation:** Remove to fresh air. If persistent irritation, severe coughing or breathing difficulty occurs, seek medical attention.
- Eye Contact:** Remove contact lenses. Flush eyes, including under eyelids, with little amounts of water. If irritation persists, seek medical attention.
- Skin Contact:** Wash affected areas with soap and water. If rash or persistent irritation or dermatitis occurs, seek medical attention.
- Ingestion:** Not applicable under normal conditions of use

➤ FIRE FIGHTING MEASURES

- Flash Point:** Not applicable
- Explosion Hazard:** Sawing, sanding or machining plywood products can produce plywood dust as a by product. Plywood dust is a strong to severe explosion hazard if a dust "cloud" contacts an ignition source. 100°C (212°F) has been suggested as the upper temperature limit for continuous exposure for plywood without risk of ignition (plywood dust may even require a lower temperature.) An airborne concentration of 40 grams of dust per cubic metre of air is often used as the lowest explosion limit (LEL) for plywood dust.
- Fire Extinguishing Media:** Water. Partially burned dust is especially hazardous if dispersed into the air. Remove burned or wet dust to open area after fire is extinguished.
- Hazardous Combustion: Products** Thermal-oxidative degradation or burning of plywood can produce irritating and potentially toxic fumes and gases including carbon monoxide, aldehydes and organic acids.
- Auto Ignition Temperature:** 204-260°C (400-500°F)

➤ ACCIDENTAL RELEASE MEASURES

Not applicable for product in purchased form. Sweep or vacuum dust for recovery on disposal. Plywood dust clean-up and disposal activities should be accomplished in a manner to minimize creation of airborne dust.

➤ HANDLING AND STORAGE

- Handling:** Provide adequate ventilation to reduce the possible buildup of formaldehyde gas, particularly when high temperatures occur. Avoid dusty conditions and provide good ventilation.
- Storage:** Plywood products are combustible and therefore, should not be subjected to temperatures exceeding the auto ignition temperature. Water spray may be used to wet down plywood dust generated by sawing, sanding or machining to reduce the likelihood of ignition or dispersion of dust into the air.

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➤ EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:	Due to explosive potential of plywood dust when suspended in air, precautions should be taken during sanding, sawing or machining of plywood products to prevent an ignition source in ventilation equipment. Use of totally enclosed motors is recommended. Provide local exhaust as necessary to meet OSHA requirements for plywood dust exposure.
Respiratory Protection:	Wear NIOSH/OSHA approved respirator when the exposure limits to plywood dust may be exceeded.
Eye Protection:	Recommended goggles or safety glasses as conditions indicate when sawing, sanding or machining plywood products.
Skin Protection:	Protective equipment such as gloves and outer garments may be needed to reduce skin contact. Following are plywood dust exposure limits, which are in accordance with those recommended by OSHA in the 1989 revision of PELs. <u>Formaldehyde:</u> OSHA PEL-TWA – 0.75ppm OSHA PEL-STEL – 2ppm ACGIH TLV – 0.3ppm <u>Wood Dust:</u> OSHA PEL-TWA – 5mg/m ³ OSHA PEL-STEL – 10mg/m ³

➤ STABILITY AND REACTIVITY

Stability:	Stable under normal conditions
Conditions to avoid:	Plywood dust generated from sawing, sanding or machining the product is extremely combustible. Keep in cool dry place away from ignition sources.
Incompatibility (Materials to Avoid):	Oxidizing agents and drying oils
Hazardous Polymerization:	Will not occur

➤ TOXICOLOGICAL INFORMATION

Plywood Dust:	Plywood dust generated from sawing, sanding or machining this product may cause nasal dryness, irritation, coughing and sinusitis. OSHA or the National Toxicology Program (NTP) does not consider plywood dust a potential cancer hazard. The International Agency for Research on Cancer (IARC) classifies plywood dust as a carcinogen to humans (Group 1.) This classification is based primarily on IARC's evaluation of increased risk in the occurrence of adenocarcinomas of the nasal cavities and paranasal sinuses associated with exposure to plywood dust. IARC did not find sufficient evidence to associate cancers of the oropharynx, hypopharynx, lung, lymphatic and hematopoietic systems, stomach, colon, or rectum with exposure to plywood dust.
Skin Contact:	May cause temporary irritation to eyes, nose and throat. Some reports suggest that formaldehyde may cause respiratory sensitization, such as asthma, and that pre-existing respiratory disorders may be aggravated by exposure. Formaldehyde is listed by the IARC as a probable human carcinogen. The NTP includes formaldehyde in the Annual Report on Carcinogens. Formaldehyde is regulated by OSHA as a potential cancer agent.

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➤ DISPOSAL CONSIDERATIONS

This product is not considered hazardous waste under Federal Hazardous Waste Regulations 40 CFR 251. Please be advised, however, state and local requirements for waste disposal may be different from federal regulations.

Incinerate or landfill in accordance with local, state and federal regulations.

➤ TRANSPORT INFORMATION

This product is not a DOT hazardous material.

➤ REGULATORY INFORMATION

OSHA: Plywood products are not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. However, plywood dust generated by sawing, sanding, or machining these products may be hazardous.

TSCA: This product complies with TSCA inventory requirements.

BARA 313: None.

CANADIAN WHMIS: These products are not considered controlled products.

➤ OTHER INFORMATION

IMPORTANT: The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification. Buyer assumes all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations. The manufacturer and its subsidiaries make no warranty of any kind, express or implied, concerning the accuracy or completeness of the information and data herein. The implied warranties of merchantability and fitness for a particular purpose are specifically excluded. The manufacturer and its subsidiaries will not be liable for claims relating to any party's use of or reliance on information and data contained herein regardless of whether it is claimed that the information and data are inaccurate, incomplete or otherwise misleading.

This Material Safety Data Sheet is being furnished for similar plywood produced by different manufacturers.