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LaserPLY™
DIEBOARDS
BY PG WOOD IMPORTS

Material Safety Data Sheet in accordance with Regulation 1907/2006/EC

Flat Birch Dieboards LaserPLY™

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1. Product And Company Identification

PRODUCT: Flat Birch Dieboards LaserPLY™ **Manufacturing Location:** Russia

TRADE NAMES: LaserPLY Premium, LaserPLY Advantage, LaserPLY Value, LaserPLY Advantage UVC

PRODUCT USE: Flat die making

2. Ingredients

WOOD: Rotary Cut Kiln Dried Birch Veneer

GLUE: Carbamide (MR)

3. Physical And Chemical Properties

PHYSICAL STATE: Solid

APPEARANCE AND ODOR: Warm, light colored appearance, slightly wooden odor.

BOILING POINT: not applicable

VAPOR DENSITY: not applicable

MELTING POINT: not applicable

SOLUBILITY IN H20 (% by wt.) - <0,1%

EVAPORATION RATE (BUTYL ACETATE = 1) - not applicable

SPECIFIC GRAVITY (h20=1): <1

% VOLATILES BY VOLUME: 0%

VAPOR PRESSURE: not applicable

PH: not applicable

4. Hazard Identification:

Sawing, sanding or machining of the Birch Dieboards can produce wooden dust which can cause an explosion hazard.

PRIMARY ROUTES OF EXPOSURE:

- ✓ Skin: Wood dust can elicit allergic contact dermatitis in sensitized individuals.
- ✓ Inhalation: Wood dust may cause unpleasant obstruction in the nasal passages, resulting in nasal dryness, dry cough, sneezing, and wheezing as a result of inhalation.
- ✓ Eye: Wood dust can cause mechanical eye irritation

5. Composition

- ✓ Panel: 100% pure birch (*Betula pendula*) veneer
- ✓ Glue:

Component trade name	Exact chemical name* (IUPAC common name and CAS number)	Effect	Classification according to DIR 67/548/EEC or EC directive No. 1272/2008**	% of weight
Carbamide formaldehyde resin	Carbamide formaldehyde polymeric compound 9011-05-6	Production of birch dieboards	EU number - none, MACs of Harmful Substances in Occupational Air - not specified, Hazard class - none	~70-80
Technical liquid lignosulfonates	8061-51-6	Modifier for carbamide formaldehyde resin. Provides stickiness	EU number - none, MACs of Harmful Substances in Occupational Air - not specified, Hazard class - none	~15-20
Kaolin	1332-58-7	Filler for carbamide formaldehyde resin. Confers certain viscosity and stickiness to the glue	EU number - none, MACs of Harmful Substances in Occupational Air - not specified, Hazard class - none	~5-10
Ammonium chloride	12125-02-9	Hardener for carbamide formaldehyde resin	EU number - none, MACs of Harmful Substances in Occupational Air - not specified, Hazard class - none	<1

6. Emergency And First Aid Measures

- ✓ Skin contact: Wash affected areas with soap and water. Seek medical help if rash, irritation or dermatitis persists;
- ✓ Inhalation: Remove to fresh air. Seek medical help if persistent irritation, severe coughing or breathing difficulty occurs;
- ✓ Eye contact: Treat dust in eye as foreign object. Remove contact lenses. Flush eye with water to remove dust particle. Seek medical help if irritation persists.

7. Fire Fighting Measures

Birch dieboards is classified as a combustible material.

FLASH POINT: Not applicable

AUTOIGNITION TEMPERATURE: 400-500 °F (204-260 °C)

The fire resistance of a birch dieboards is about 13-15 minutes for 18mm thickness. The carbonization rate of birch dieboards varies in the range 0.8 - 1.2mm / min depending on the thickness of the panel.

Sawing, sanding or machining birch dieboards can produce wood dust as a by product. Wood dust may explode in the presence of an ignition source. An airborne concentration of 40 grams of dust per cubic meter is often used as the lowest explosion limit.

EXTINGUISHING MEDIA: Water, partially burned dust, carbon dioxide, sand

8. Accidental Release Measures

Not applicable to the product in purchased form. Wood dust may be vacuumed or shoveled for recovery or disposal. Provide good ventilation and avoid dusty conditions, use dust respirator and goggles if ventilation is not possible.

9. Handling And Storage

HANDLING: No special precautions are required for this product. Avoid dusty conditions and provide good ventilation.

STORAGE: Being combustible, birch dieboards should not be subjected to temperatures exceeding the auto ignition temperature, should be stored in well-ventilated, cool, dry place away from open flame.

10. Exposure Control And Personal Protection

PERSONAL PROTECTIVE EQUIPMENT:

- ✓ skin protection: Cloth, canvas or leather gloves are recommended to minimize potential slivers or mechanical irritation from handling product.
- ✓ eye protection: Not applicable for product in purchased form. Goggles or safety glasses are recommended when sawing, sanding or machining the product.
- ✓ respiratory protection: Not applicable for product in purchased form. A dust respirator is recommended when allowable exposure limits may be exceeded.

- ✓ other protecting clothing: garments may be

Not applicable for product in purchased form. Outer desirable in extremely dusty areas.

ENGINEERING CONTROLS:

Due to the explosive potential of wood dust when suspended in air, precautions should be taken during sawing, sanding and machining of birch dieboards to prevent igniting sources in ventilation equipment. Use of totally enclosed motors is recommended.

HYGIENE PRACTICES:

Follow good hygienic practices. Clean up areas where wood dust settles to avoid excessive accumulation of this combustible material. Minimize blowdown or other practices that generate high airborne-dust concentrations.

Following are wood dust exposure limits, which are in accord with those recommended by Occupational Safety and Health Administration (OSHA):

WOOD DUST:

OSHA PEL-TWA 5mg/m³
OSHA PEL –STEL 10mg/m³

11. Stability And Reactivity

Birch dieboards is stable material.

Avoid open flame. Keep in cool, dry place away from ignition sources. Avoid contact with oxidizing agents and drying oils.

Thermal and/or thermal oxidative decomposition can produce irritating and toxic fumes and gases, including carbon monoxide, hydrogen cyanide, aldehydes, organic acids and polynuclear aromatic compounds.

12. Toxicological Information

WOOD DUST:

Birch dieboards dust generated from sawing, sanding and machining this product may cause nasal dryness, irritation and coughing. OSHA or the NTP does not consider dieboards dust a potential cancer hazard. The IARC classifies dieboards 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 Birch Dieboards dust. IARC did not find sufficient evidence to associate another kinds of cancer to dieboards dust.

FORMALDEHYDE:

Formaldehyde is listed on the International Agency for Research on Cancer (IARC) as a probable human carcinogen. Formaldehyde is

regulated by OSHA as a potential cancer agent. In studies involving rats, formaldehyde has been shown to cause nasal cancer after long-term exposure to very high concentration (14+ ppm). Far above those normally found in the workplace, using this product. The National Cancer Institute (NCI) conducted an epidemiological study of industrial workers exposed to formaldehyde (published June 1986). The NCI concluded that the data provides little evidence that mortality from cancer is associated with formaldehyde exposure at the levels experienced by workers in the study.



13. Disposal Considerations:

This product is considered hazardous waste under Federal Hazardous Waste Regulations 40CFR 251. Please be advised that state and local requirements for waste disposal may be different from federal regulations.

14. Transport Information:

UN Number: none allocated. Dangerous goods class: none allocated.
Hazchem Code: none allocated.

15. Regulatory information:

- OSHA:** Birch dieboards is not hazardous under the criteria OSHA 29CFR 1910.1200.
- TSCA:** Complies with TSCA inventory requirements
- BARA 313:** None
- WHMIS:** This product is not considered controlled product

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