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Material Safety Data Sheet

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.

MOISTURE CONTENT: 6.3 – 9.5%

DENSITY: 680 kg/m³

ULTIMATE BENDING STRENGTH: 87.0 – 107.0 MPA

SURFACE: Sanded 2 sides, UV coated

ULTIMATE SHEARING STRENGTH: 1.94 – 3.60 MPA

ULTIMATE TENSILE STRENGTH: 68.0-99.0 MPA

4. Hazard Identification:

Sawing, sanding or machining of the 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. 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.

6. 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

7. 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.

8. 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.

9. 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: Not applicable for product in purchased form. Outer garments may be 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/m ³
OSHA PEL –STEL	10mg/m ³

10. 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.

11. Toxicological Information

PLYWOOD 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 plywood dust. IARC did not find sufficient evidence to associate another kinds of cancer to dieboards dust.

12. 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.

13. Transport Information:

Birch dieboards is not regulated as hazardous material by no the U.S. Department of Transportation, nether Canadian Transportation of Dangerous Goods.

14. Regulatory information:

OSHA: Birch dieboards is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200/ However, plywood dust generated by sawing, sanding and machining may be hazardous.

WHMIS: This product is not considered controlled product