

## MATERIAL SAFETY DATA SHEET

### 1. Product and company identification:

Material name Russian Birch plywood bonded with phenol-formaldehyde adhesive.

### 2. Composition and ingredients:

Appearance and color Plywood is made of Birch veneers bonded together using phenol-formaldehyde adhesive. Plywood has slightly aromatic resinous odor and natural wood color that can vary from white to light yellow.

Components Wood/wood dust 60-100%  
Adhesive composed of 44-48%  
phenol-formaldehyde resin with dried residue

### 3. Hazards overview:

Sawing, sanding or machining the plywood can generate dust. Wood dust may ignite or form explosive mixture with air. Wood dust or formaldehyde may be irritating to eyes, skin or respiratory system.

### 4. Potential health effects and first-aid measures:

Eyes Wood dust may mechanically irritate the eye resulting in redness or watering. Flush eyes with plenty of water for at least 15 minutes. If irritation persists, seek medical advice

Skin Contact with wood dust may cause irritation. Wash affected areas with soap and water. Get medical attention if irritation persists

Inhalation Dust may cause respiratory tract irritation, respiratory allergies and obstruction in the nasal passages, resulting in dryness of nose, dry cough and sneezing.  
Remove from area to fresh air. If persistent

	irritation, severe coughing or breathing difficulty occurs, get medical help.
Ingestion	Not applicable under normal use.
5. Fire and explosion: Unusual fire and explosion hazards	Plywood does not present an explosion hazard. Sawing, sanding or machining the plywood can generate dust as a by-product. Wood dust may form explosive mixtures with air in the presence of an ignition source.
Autoignition temperature	variable (typically 200-260 °C).
Extinguishing agent recommended	Water, carbon dioxide, sand.
6. Accidental release measures: Avoid dusty conditions and provide good ventilation. Wear appropriate protective equipment and clothing when manufacturing or during clean-up. Wood dust generated from machining can may be vacuumed or shoveled for recovery or disposal.	
7. Handling and storage: Handling	No special handling precautions required for product in purchase form. Avoid repeated or prolonged breathing of wood dust. Plywood may release very small quantities of formaldehyde in gaseous form. Under foreseeable conditions of use, plywood releases less than 0.05ppm in standard large chamber test conditions.
Storage	Store flat, supported and protected from direct contact with the ground. Keep in a well-ventilated place away from incompatible materials. Store in a cool dry place, protected from rain and sun.
8. Exposure controls and personal protection: Check exposure limits given by local authorities.	
Wood dust	Generated as by-product when sawing, sanding or machining the plywood.
Formaldehyde emissions	Ceiling exposure limit for formaldehyde – 0.05ppm. The product is CARB Phase 2 (§93.120) compliant.
Respiratory protection	N/A for product in purchased form. Dust respirator is recommended in poorly ventilated areas or when allowable exposure limits may be exceeded.
Protective gloves	Not required. Cloth, canvas or leather gloves

	are recommended to minimize potential mechanical irritation from handling product.
Eye protection	N/A for product in purchased form. Goggles or safety glasses are recommended when machining this product.
Skin protection	N/A for product in purchased form. Protective clothing and gloves may be needed depending on dust conditions.
<b>9. Physical and chemical properties:</b>	
Appearance	Solid
Color	White to light yellow
Odor	Resinous
pH value	Not applicable
Melting point	Not applicable
Freezing point	Not applicable
Boiling point	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Autoignition temperature	200-260 °C
Vapor pressure	Not applicable
Vapor density	Not applicable
Solubility in water (% by weight)	<0.1%
Density	700kg/m <sup>3</sup>
<b>10. Chemical stability and reactivity information:</b>	
Chemical stability	Stable at normal conditions.
Conditions to avoid	Avoid contact with incompatible materials. Avoid high temperatures, heat and open flame.
Incompatible materials	Strong acids, alkalis, oxidizing agents and drilling oils
Hazardous decomposition products	Thermal decomposition may emit irritating fumes or gases of carbon monoxide, carbon dioxide, aldehydes, organic acids and polycyclic aromatic hydrocarbons.
<b>11. Toxicological information:</b>	
Not available for product in purchased form. Toxicological information for components of this product is listed below.	
Wood dust	Dust may cause respiratory tract irritation, respiratory allergies and obstruction in the nasal passages, resulting in dryness of nose, dry cough and sneezing.
Formaldehyde	Exposure to formaldehyde may cause temporary irritation to the nose and throat and may lead to

respiratory disorders. In general, irritation will not be reported until concentrations reach 0.5-1.0ppm.

**12. Ecological information:**

According to available data this product is not classified as hazardous to the environment.

**13. Disposal considerations**

Dispose of material according to Local, State, Federal and Provincial environmental regulations.

There are several ways of disposal – recycling, energy recovering (burning), composting and disposal in a dumping area. According to available data this product contains nothing classified as hazardous waste.

**14. Transport information:**

Normally this product is not regulated as a hazardous material. Contact your local authorities for detailed information.

It is recommended to transport plywood well protected from rain, sun and incompatible materials.