Metsä Wood, Building and Industry April 2015

MATERIAL SAFETY DATA SHEET

METSÄ WOOD SPRUCE MOULDGUARD PLYWOOD

The following data applies to **Metsä Wood Spruce MouldGuard** plywood glued with phenol formaldehyde adhesive and surface treated with waterborne wood preservative.

CHEMICAL COMPOSITION

Spruce MouldGuard plywood is manufactured from conifer (spruce) veneers bonded with phenol formaldehyde adhesive.

Composition of plywood is as follows:

Wood:	Cellulose	Hemi cellulose	Lignin	Terpene
	Pitch	Polyphenol	Sugar	Fatty acids
	Ash (calcium, potassium and magnesium in the form of carbonates, phosphates and sulphates)			
Glue:	Phenol formaldehyde adhesive (hardened)			
Wood preservative:	Alkyd binder 3-iodo-2-propynyl butylcarbamate < 0,6 g/m² (<0,07 kg/m³ / <0,15 kg/ton) Propiconazole < 1,8 g/m² (<0,20 kg/m³ / <0,44 kg/ton) (penetrated to the plywood surface, dry)			

PRODUCT USES

Uses are specified in the Metsä Wood Spruce MouldGuard Product Data Sheet.

OCCUPATIONAL EXPOSURE

Good industrial hygiene and safety practice shall be followed. If the plywood is sanded, cut or machined in confined work spaces, it will be necessary to provide adequate ventilation and dust extraction to meet the environmental limits set for free formaldehyde and wood dust concentrations by authorities. Gloves are recommended to be worn to protect hands from sharp edges and wood splinters. Safety goggles are recommended to protect eyes during sanding, cutting and machining.

FORMALDEHYDE EMISSION

Spruce MouldGuard plywood meets the requirements of standard **EN 13986 / Class E1** when determined in accordance with standards **EN 717-1** or **EN 717-2**. MouldGuard treatment does not contain any formaldehyde.

DETAILS OF KNOWN SYNERGISTIC REACTIONS

None known.

RECOMMENDED PRECAUTIONS FOR HANDLING AND STORAGE

The weight restrictions on handling equipment must be strictly observed when moving pallets or packs. Plywood should be stored flat and level in dry and well-ventilated conditions.

Handling shall be done according to good industrial hygiene and safety practice. Care should be taken when cutting steel pallet bands, as the tension in these bands can be high. When handling individual boards it is recommended to wear gloves to protect hands from sharp edges and wood splinters.

FIRE AND EXPLOSION HAZARDS

There is no risk of explosion with Spruce MouldGuard plywood in its solid form, but processors should avoid the build-up of fine dust particles to prevent dust explosion in the event of fire. In the event of fire, precautions normal to wood products should be taken.

HAZARD THAT RESEARCH OR USE EXPERIENCE HAS INDICATED MAY ARISE

Direct contact to foodstuff or animal feed should be avoided due to preservative treatment of the product.

Wood preservative is harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment. Product is not intended to be used in direct contact with liquid water or exposed to weather.

BIOCIDAL PRODUCTS REGULATION (EU) No 528/2012

Spruce MouldGuard is treated with biocide:

- preservative treatment reduces the risk of mould growth and blue stain
- active substances: propiconazole, 3-iodo-2-propynyl butylcarbamate
- direct contact to foodstuffs or animal feed should be avoided

WASTE HANDLING

Recycling of Spruce MouldGuard plywood by utilizing it in other applications is always preferred, but disposal of the product is carried out by burning. It should be noted that the instructions for disposal may vary in different countries depending on the current legislation.

Spruce MouldGuard plywood can be considered as biofuel (EN 14961-1) and it can be safely burnt when the combustion temperature is at least 850°C and correct combustion conditions are maintained. Due to preservative treatment the correct combustion conditions and suitable waste burning plants should be checked locally. Preservative treatment of Spruce MouldGuard contains following materials, which should be taken in to account when choosing the suitable combustion plant: Nitrogen <0,007 %, Chlorine < 0,01%, Iodine <0,007% calculated as percentage of weight.

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CONTACT DETAILS

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