

MATERIALS SAFETY DATA SHEET (MSDS) MELAMINE FACED CHIPBOARD (MFC) - E0

2005-06-30

Definition

Unilin Decor MFC is a three layer base board covered on the top and the backing with thermosetting decorative melamine paper. The base board consists of a surface layer with fine wood chips and a core layer of larger wood chips. The wood chips are mixed with a urea-formaldehyde adhesive. The melamine layers are pressed on the substrate under the simultaneous action of heat and pressure.



General composition

- ± 80% wood (composition of 45-55% softwood and 55-45% hardwood)
- 9 - 10% ureaformaldehyde resin
- 7 - 10 % water
- < 0,5% others (paraffin, hardener, silica)

Chemical Composition

Depending on the composition of the mixed woodchips we can give the following mean chemical formula:

46,8 %	carbon
6,3 %	hydrogen
41,7 %	oxygen
4,7 %	nitrogen
0,5 %	ashes

Contaminant Limits

Limit values for contaminants that may be present in recycled wood are an excellent tool for ensuring that wood-based panel products are safe to use. The table below contains a list of relevant maximum limit values for wood-based panels containing recycled wood. As a reference, the specific limits for the presence of certain elements as defined in the CEN report CR 13387 "Child use and care articles - General and common safety guidelines" dated October 1999 were chosen. These limits, referring to child contact articles intended to be mouthed (sucked) by children, were also laid down in EN 71-3 "Safety of toys". In addition, taking environmental considerations into account, limits for Fluorine (F), Chlorine (Cl), Pentachlorophenol (PCP) and Creosote have been established.

Elements/Compounds	Limit values (g/kg dry panel)
Arsenic (As)	0,025
Cadmium (Cd)	0,050
Chromium (Cr)	0,025
Copper (Cu)	0,04
Lead (Pb)	0,09
Mercury (Hg)	0,025
Fluorine (F)	0,1
Chlorine (Cl)	1
Pentachlorophenol (PCP)	0,005
Creosote (Benzo(a)pyrene)	0,0005

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Physical Characteristics

Boiling Point	N/A
Specific Gravity	0,60 - 0,75
Vapor Pressure	N/A
Melting Point	N/A
Vapor Density	N/A
Reactivity In Water	N/A
Evaporation Rate	N/A
Appearance	N/A

Toxicological Characteristics

Toxic Product	We do not use any toxic products in our chipboard
Formaldehyde	< 0,003 % (EN 120 / E0) < 0,3 mg/L (JIS A 5908) - F****

Fire-Explosion and Health Hazards

Sawing, sanding or machining of Unilin Decor MFC could result in the by-product wood-melamine dust. This by-product is similar to wood dust. Specific safety requirements are dealt by the safety data sheet of wood and timber.

Precautions, safety handling

Personal protective equipment	Wear goggles or safety glasses when manufacturing or machining the product. Other appropriate protective equipment such as gloves and other garments may be needed during processing.
Waste Disposal Method	In accordance with local, state and federal regulations.

Disclaimer-important

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