

Material Safety Data Sheet

Maica High Pressure Decorative Laminate

SECTION 1:

Product and Company Identification

MANUFACTURER:

Maica Laminates Sdn Bhd
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MANUFACTURER'S EMERGENCY CONTACT:

Marketing Department
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PRODUCT NAME:

maiLaminate and maiCompact (All grade and thickness)

SYNONYMS:

High Pressure Decorative Laminate (All grades and thicknesses)

MATERIAL USES:

Decorative Laminate

FIRST ISSUE DATE:

27 JANUARY 2011

SECOND ISSUE DATE:

13 JULY 2021

SECTION 2:

Hazard Identification

ENVIRONMENTAL AND HEALTH ASPECT, IN USE

maiLaminate and maiCompact are fully cured and therefore chemically inert. VOC Gas released from surfaces and edges is extremely low. The formaldehyde emission level of maiLaminate and maiCompact is far below the limit for wood-based materials (emission << Formaldehyde Class E1).

Furthermore, the low chemical emissions were tested by UL Environment, according to the GREENGUARD Method, Laboratory Quality Requirements and ASTM D5116 standard. maiLaminate and maiCompact were awarded two GREENGUARD Certification marks from GREENGUARD Environmental Institute: GREENGUARD Certification mark and GREENGUARD GOLD Certification mark for complying with the requirements.

The decorative surfaces are resistant to all common household solvents and chemicals and can therefore be used for many years for its designated applications as long as cleanliness and hygiene standards are adhered to.

The non-porous maiLaminate and maiCompact surfaces and edges are easy to disinfect with hot water, steam and all types of common disinfectants used in hospitals and for professional applications.

No halogen, biocides, pesticides, heavy metals (e.g. lead, cadmium, chromiumVI, mercury), or plasticizers are used in the production. The level of heavy metals is therefore present at a level below the Singapore Green Label requirement.

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SECTION 3: Composition / Information on Ingredients

| Substances | CAS No. | Proportions (%w/w) | |
|------------|---------|--------------------|-------------|
| | | HPL | Compact |
| Fiber | N/A | 47.0 – 68.0 | 55.0 – 68.0 |
| Resin | N/A | 29.0 – 46.0 | 29.0 – 40.0 |
| Other | N/A | 3.0 – 9.0 | 2.0 – 6.0 |

SECTION 4: First Aid Measures

SWALLOWED:

Give water to drink. If abnormal discomfort occurs, seek medical attention

EYE:

Flush with flowing water for at least 15 minutes, and medical attention should be sought if symptoms persist.

SKIN:

Wash with mild soap and running water. Seek medical attention if symptoms persist. For cuts, clean wound and apply antiseptic dressing.

INHALED:

Leave the dusty area.

SECTION 5: Fire Fighting Measures

DO NOT BURN in barbecues, combustion stoves or open fires in the home as irritating gases are emitted.

Avoid breathing smoke from laser cutting machines and from burning or smouldering materials.

Full protective clothing and self-contained breathing apparatus should be worn for firefighting.

The intact product and dust must not be burnt in barbecues; combustion stoves or open fires in the home as irritating gases are emitted.

FIRE FIGHTING RECOMMENDATIONS:

Use water, fog, CO₂, foam or dry chemical fire extinguishers.

SECTION 6: Accidental Release Measures

Off-cuts and general waste materials should be placed in containers and disposed of at approved landfill sites, or burnt in an approved furnace or incinerator, in accordance with the guidelines released by disposal authority. Dust from the laminates should be cleaned up by vacuuming or wet sweeping.

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SECTION 7:

Handling and Storage

The laminates should be stored in well ventilated areas, away from sources of heat, flame or sparks. No special transport requirements are necessary. Storage and transportation should be carried out in accordance with Maica Product Care, Handling and Storage Information.

SECTION 8:

Exposure Controls / Personal Protection

ENGINEERING CONTROLS:

All work with these laminates should be carried out in such a way as to minimize the generation of, and exposure to dust. Under factory conditions, sawing, drilling, sanding, heat processing etc. should be done with equipment fitted with exhaust devices capable of removing dust, gas and vapour at source. Hand power tools should be fitted with the dust bags and used in well-ventilated areas.

Work areas should be well-ventilated. These areas should be cleaned daily, and dust removed by vacuum cleaning or wet sweeping method.

PERSONAL PROTECTION:

Skin Protection

Wear loose, comfortable clothing. After handling the laminates, wash hand with mild soap and water. Do not scratch or rub the skin if it becomes irritated. Wash work clothes regularly and separately from other clothes.

Comfortable light weight leather or protective gloves should be worn.

Eye Protection

Dust resistant safety glasses or non-fogging goggles should be worn when machining.

Respiratory Protection

A class P1 or P2 replaceable filter or disposable half face-piece particulates respirator should be worn when machining. Respirators should comply with AS/NZS 1716 and be selected, used and maintained in accordance with AS/NZS 1715.

Flammability

Keep all storage and work areas well-ventilated to avoid build-up of dust that can ignite. Avoid sources of radiant heat and flame; and avoid sparks and sources of ignition in all electrical equipment, including dust extraction equipment. People must not smoke in storage or work areas. Products will only burn in a fire situation and in the presence of open flames.

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SECTION 9: Physical and Chemical Properties

| | |
|-------------------------|---|
| Appearance | Maica products are a high pressure decorative compact laminate sheet consisting of layers of cellulosic fibrous impregnated with thermosetting resins and bonded together by a high pressure process. |
| Odour | Newly manufactured board and freshly cut surfaces may have an odour due to residue formaldehyde from the resin binder. |
| Physical State | Solid Sheet |
| Density | >1,35 g/cm ³ |
| Solubility | Insoluble in water, oil, methanol, diethyl ether, n-octanol, acetone |
| Boiling Point | Not applicable |
| Evaporation rate | Not applicable |
| Melting Point | Not applicable |
| Flash Point, °C | Not applicable |
| Heavy Metals | Does not contain toxic compounds of antimony, barium, cadmium, chromium III, chromium VI, lead, mercury, selenium. |

SECTION 10: Stability and Reactivity

| | |
|---|---|
| Stability | This product is stable. |
| Conditions to avoid | None |
| Materials to avoid (incompatibility) | None |
| Hazardous Decomposition Products | Carbon oxides (CO and CO ₂) |
| Hazardous Polymerization | Will not polymerize |

SECTION 11: Toxicological Information

maiLaminate and maiCompact are not considered to be dangerous for humans and animals. There is no evidence of maiLaminate and maiCompact generating toxicological effects and eco-toxicity.

SECTION 12: Ecological Information

This product should be used only for its designated purposes.

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SECTION 13: Waste material shall be handled according to local regulation.
Disposal Consideration

SECTION 14: This product is not regulated as a dangerous good. No special transport requirements are necessary.
Transport Information

SECTION 15: No special State or Commonwealth regulation applies. The product is not listed on the Standard for the Uniform Scheduling of Drugs and Poisons.
Regulatory Information

Wood dust – (certain hardwoods such as beech and oak), and Wood dust – softwood are listed in the 1999 NOHSC list of Designated Hazardous Substances: NOHSC: 10005(1999).

Formaldehyde – is listed in the 1999 NOHSC list of Designated Hazardous Substances: NOHSC 10005(1999) If presenting concentrations of 0.2% or more.

SECTION 16: The Forest Research Institute Malaysia (FRIM) evaluated maiCompact's resistance against termite attack compared to other wood-based materials (rubberwood, pinewood and particle board).
Other Information

Two test methods were used:

1. Controlled laboratory environment (test standard ASTM D3345-08)
2. Field test (FRIM Working Procedure PK A1 test).

maiCompact proved to be the most resistant (in both laboratory and field test environment) against termite attack compared to the other tested wood-based materials, followed by pinewood, rubberwood, and particle board.

SECTION 17: Marketing Department
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