



Robin Resources (Malaysia) Sdn.Bhd.

(A member of the Robin Group of Companies)
(289258 U)

MATERIAL SAFETY DATA SHEET

MEDIUM DENSITY FIBREBOARD (MDF)

SECTION 1 - PRODUCT INFORMATION

1.1 Product Details:

Product Name	: Medium Density Fibreboard (MDF)
Bonding Reagent	: Resin and Wax
Type of Resin	: Melamine Urea Formaldehyde
Type of Wax	: Solid Paraffin Wax
Use	: Panel for Furniture, Cabinets and Wood Working Industry.

1.2 Company Identification

Manufacturer's Name	: Robin Resources (M) Sdn. Bhd.
Manufacturer's Address	: No. 1, Jalan Industri 5, Taman Perindustrian Temerloh, 28400 Mentakab, Pahang Darul Makmur.
Telephone Number	: 609 - 271 9000
Fax Number	: 609 - 271 9100

SECTION 2 - COMPOSITION INFORMATION ON INGREDIENT

Substance	Proportion
Fibre (Rubberwood)	680 - 850 kg/m ³
Urea Formaldehyde (UF)	< 17% (Refer to Dynea MSDS)
Paraffin Wax	< 1.0% (Refer to Shell MSDS)

SECTION 3 - PHYSICAL AND MECHANICAL PROPERTIES

Physical and mechanical properties of MUF panels are manufactured according to the requirements of EN 622-5 : 2006.

Density	: 680 - 850 kg/m ³
Internal Bond	: min 0.60 N/mm ²
Modulus of Rupture	: 28 - 35 N/mm ²
Formaldehyde Emission	: E1

SECTION 4 - HAZARDS IDENTIFICATION

Formaldehyde gas may be released from the unsealed surfaces of the boards. In well-ventilated storage and workplaces, the concentration of formaldehyde is lowest when compared to the boards stored in confined and poorly ventilated places. Wood dust and vapor produced as a result of machining the board and heat processing is regarded as harmless.

- Inhalation : Irritation of nose and throat
- Ingestion : Unlikely to occur, but swallowing the wood dust would result in some abdominal discomfort or pain.
- Stain contact : Dust and vapor may cause stain irritation in sensitized individual.
- Eye contact : May cause temporary irritation.
- Chronic : Repeated exposures over many years to uncontrolled dusts from the boards may result in allergic dermatitis, asthma or chronic nose or throat irritation in some people. The risk of nasal cavity cancer may be increased. No chronic health effects are expected if the work practices in the MSDS are followed along with exposures to airborne dusts being kept at a low level.

SECTION 5 - FIRST AID MEASURES

Product is of very low toxicity. First aid may be required if large quantities of dust are inhaled or upon contact with the eyes.

- Inhalation : Remove to fresh air.
- Eye contact : Flush with flowing water for at least 15 minutes. If symptoms persist, seek medical attention.
- Skin contact : Wash affected areas with soap and water
- Swallowed : Drink a glass of water. If irritation persists, seek medical attention.
- Advice to Doctor : Treat symptomatically.

SECTION 6 - FIRE FIGHTING MEASURES

Panels are flammable but difficult to light. Product may ignite in excess of 200°C

- Extinguishing Media : Water, carbon dioxide and dry powder.
- Decomposition Products : Combustion may produce carbon monoxide, carbon dioxide and formaldehyde.
- Fire Fighting Procedures : Fire fighting for wood products is well known.

SECTION 7 - STORAGE AND HANDLING

- Storage : Provide adequate ventilation. Should not be stored where exposure to water could occur and away from sources of heat, flame and sparks.
- Handling : Wood products are combustible and, therefore, should not be subjected to temperatures exceeding 200°C

SECTION 8 - PERSONAL PROTECTION

- Respiratory Protection : Wear approved dust mask or respirator when sanding, sawing and with machining processes.
- Eye Protection : Wear appropriate eye protection in sanding, sawing and machining processes.
- Skin Protection : Protective equipment such as gloves and water garments may be needed to reduce stain contact.

SECTION 9 - OTHER INFORMATION

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