

GREENFIBER CO.,LTD.

MATERIAL SAFETY DATA SHEET - Hardboard

STATEMENT OF HAZARDOUS NATURE:

This product in its intact state is not classified as hazardous, but the dust from this product is classified as hazardous.

Name: GREENFIBER CO.,LTD.

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Product Name:	Hardboard
Manufacturer's Product	Not Applicable
UN Number:	None Allocated
Dangerous Goods Class & Subsidiary Risk:	None Allocated
Hazchem Code:	None Allocated
Poisons Schedule Number:	None Scheduled
Use:	Wall/ceiling linings, furniture and cabinet linings, general purpose building boards, door facings, floor underlay,automotive components, packaging, space support, shop-fit panels.
Appearance:	<p>The products are manufactured as pressed, hardboards ranging in thickness from 1.80 mm to 7.00 mm. They are made from hard wood fibres, which are chip or sawdust steamed for 3 minutes in a pressurized preheater at pressure of about 10 bar .</p> <p>Then defibrated and the pulp is blown to cyclone and diluted to consistency 2%,sheet is formed , cut , spay paraffin wax < 1% , and then either hot-pressed at pressured about 200 - 250 bar at 195°C. Then heat treated average 4 hours at about 160°C and reconditioned to equilibrium moisture content.</p>
Boiling Point: (°C)	Not Applicable
Melting Point: (°C)	Not Applicable
Vapour Pressure:	Not Applicable
Specific Gravity (H2O = 1)	0.85 - 1.1
Flashpoint:	Not Applicable
Flammability Limits:	Not Applicable
Solubility in Water:	Negligible
Auto-ignition	>200°C

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Ingredients:		
Chemical Name:	CAS Number:	Proportion:
Hardwood (mixed eucalypt species)	–	> 99.9 %
Wax Emulsion	–	< 0.1 %

NB : The proportion of paint used on coated board is less than 0.1% of board mass.

HEALTH HAZARD INFORMATION

NB : In its intact state this product is not classified as a hazardous substance, but dust generated when using the product has been classified as hazardous . Exposures to wood dust from the surface of the board or produced from machining the boards, and smoke or vapour from processing (e.g. heating or laser cutting) boards with inadequate ventilation may result in the following health effects:

HEALTH EFFECTS	
Swallowed:	Unlikely to occur but swallowing the dust may result in abdominal discomfort.
Eye:	The dust, smoke or vapour may be irritating to the eyes causing discomfort and redness.
Skin:	The dust, smoke or vapour may irritate the skin, resulting in itching and redness; and dermatitis in some people.
Inhaled:	The dust, smoke or vapour may irritate the nose, throat and lungs, especially in people with upper respiratory tract or chest complaints such as asthma.
Chronic:	Repeated exposure over many years to uncontrolled wood dust increases the risk of nasal cavity cancer. Inhalation of wood dust may also increase the risk of lung fibrosis (scarring). There are increased risks of respiratory/skin sensitisation from wood dust resulting in asthma/dermatitis respectively.

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FIRST AID	
Swallowed:	Give water to drink. If abdominal discomfort occurs seek medical attention.
Eye:	Flush with flowing water for at least 15 minutes, and if symptoms persist seek medical attention.
Skin:	Wash with mild soap and running water. Remove clothing contaminated with wood dust.
Inhaled:	Leave the dusty area.
Advice to Doctor:	Treat symptomatically.

PRECAUTIONS FOR USE

Engineering Controls:	All work with the hardboards should be carried out in such a way as to minimize the generation of, and exposure to dust, smoke or vapour. Under factory conditions, sawing, drilling, sanding, heat pressing and laser cutting etc. should be done with equipment fitted with exhaust devices capable of removing wood dust, smoke and vapour at source. Hand power tools should be fitted with dust bags and used in well-ventilated areas. Work areas should be well ventilated. They should be cleaned at least daily, and dust removed by vacuum cleaning or wet sweeping method.
Personal Protection:	Wear loose, comfortable clothing. Long-sleeved shirts/trousers are recommended to prevent skin irritation. After handling boards, wash with mild soap and water. Do not scratch or rub the skin if it becomes irritated.
Skin Protection:	Wash work clothes regularly and separately from other clothes.
Flammability:	The boards are flammable but difficult to ignite. Fine airborne dust can ignite so avoid build-up of dust and keep all storage and work areas well ventilated. 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.

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SAFE HANDLING INFORMATION

Storage and Transport:	Boards should be stored in well-ventilated areas away from sources of heat, flame or sparks. No special transport requirements are considered necessary.
Spills and disposal:	Off-cuts and general waste material should be placed in containers and disposed of at approved disposal facilities, or burnt in an approved furnace or incinerator, in accordance with disposal Dust from the boards should be removed by vacuuming or wet sweeping.
Fire/explosion hazard:	Burning or smouldering boards or dust can generate carbon dioxide and other pyrolysis products Use water or dry foam fire extinguishers and avoid breathing smoke from burning or smouldering material. Dry dusts in high concentrations can be explosive.
Smoking and Other Dust:	Inhalation of airborne particles from other sources in the work environment, including those from cigarette smoke, may increase the risk of contracting the lung disease associated with exposure to dust from this product. GreenFiber Company Limited recommends that all work and storage areas are smoke free zones and other airborne contaminants be kept to a minimum.

CONTACT POINT

For further information on this product, please contact the following:

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This MSDS was correct at the time it was prepared. Greenfiber Co.,Ltd. as part of its health and safety program, updates MSDSs when ongoing review processes indicates a need for a change to be made.