

Material Safety Data Sheet
HARDBOARD Eucalyptus Fiber

1. Product Identification

Hardboard.

Note 1: This fact sheet is for products that have not been finished (coated or laminated) or treated (for example, with preservative or fire retardant).

2. Synonyms

Fiberboard, Fibreboard

3. Trade Name

HARDBOARD Eucalyptus Fiber

4. Description

HARDBOARD Eucalyptus Fiber: this panel product is manufactured from interfelting wood fiber of *Eucalyptus saligna* & *Eucalyptus grandis*, obtained from private reforestation.

Physical data

Boiling point	Not applicable
Specific gravity (H ₂ O = 1)	Greater than 1
Vapor density	0
Melting point	Not applicable
Vapor pressure	Not applicable
Solubility in H ₂ O (% by wt)	Less than 0.1%
Evaporation rate (butyl acetate = 1)	Not applicable
pH	Not applicable
Appearance and odor	Medium brown; color and odor are dependent upon Eucalyptus wood species
Emission of formaldehyde	Product tested at WKI (Wilhelm Klauwitz Institut) in Germany according to methodology specified by norm DIN EN 120 that achieved average results of 0,4 mg HCHO/100g dry board classifying it as "E1-hardboard" i.e. of low formaldehyde emission.

Fire and explosion data

Flash point	Not applicable
Autoignition temperature	400°F - 500°F
Explosive limits in air	See below under "Unusual Fire and Explosion Hazards"
Extinguishing media	Water, carbon dioxide, sand
Special fire fighting procedures	None
Unusual fire and explosive hazards	Sawing, sanding or machining can produce wood dust as a by product which may present an explosion hazard if a dust cloud contacts an ignition source. An airborne concentration of 40 grams of dust per cubic meter of air is often used as the LEL for wood dust.

Reactivity data

Conditions Contributing to	Instability	Stable under normal conditions
	Incompatibility	Avoid contact with oxidizing agents. Avoid open flame. Product may ignite in excess of 400°F.
Hazardous decomposition	Products	Thermal and/or thermal oxidative decomposition can produce irritating and toxic fumes and gases, including carbon monoxide, hydrogen cyanide, aldehydes, organic acids and polynuclear aromatic compounds.
Hazardous polymerization	Not applicable	

Health effects information

Exposure limits	Wood dust (certain hardwoods such as beech and oak)	ACGIH TLV - TWA 1mg/m ³ .
	Eye contact	Wood dust can cause mechanical irritation
	Skin contact	Various species of wood dust may evoke allergic contact dermatitis in sensitized individuals
	Ingestion	Not likely to occur
	Wood dust	May cause nasal dryness, irritation and obstruction. Coughing, wheezing, and sneezing; sinusitis and prolonged colds have also been reported. Depending on species may cause respiratory sensitization and/or irritation. Prolonged exposure to wood dust has been reported by some observers to be associated with nasal cancer.
Heavy metal	Fully completes with requirements of the European norm EN71: Part 3: 1988 - "Safety of Toys - Specification for migration of certain elements".	

Precautions, safe handling

Wood dust	Avoid dusty conditions and provide good ventilation
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Generally applicable control measures

Ventilation	Provide adequate general and local exhaust ventilation to meet exposure limits
Personal protective equipment	Wear goggles or safety glasses when manufacturing or machining the product Wear NIOSH/MSHA approved respirator when the allowable exposure limits may be exceeded. Other protective equipment such as gloves and outer garments may be needed depending on dust conditions.

Emergency and first aid procedures

Eyes	Flush eyes with large amounts of water. Remove to fresh air. If irritation persists, get medical attention.
Skin	Wash affected areas with soap and water. Get medical advice if rash or persistent irritation or dermatitis occurs.
Inhalation	Remove to fresh air. Get medical advice if persistent irritation, severe coughing or breathing difficulty occurs.
Ingestion	Not applicable

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Additional information

Designed by: Products and Process Normalization