

**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:**

Duratree.

**4. DESCRIPTION:**

a) **Duratree Hardboard:** this panel product is manufactured from interfelting wood fiber of Eucalyptus saligna & Eucalyptus grandis, obtained from private reforestation.

**a) Physical Data:**

• Boiling Point:	Not applicable.
• Specific gravity (H <sub>2</sub> O = 1):	Greater than 1.
• Vapor density:	Not applicable.
• % Volatiles by vol:	0.
• Melting point:	Not applicable.
• Vapor pressure:	Not applicable.
• Solubility in H <sub>2</sub> 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.

**b) 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 Explosion 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.

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**ELECTRONIC HOMOLOGATION**

APPROVAL

REGULATION

Carlos N. da Gama Neto  
(Engineering and Development Manager)

Pedro A. Fernandes  
(Products and Process Normalization)

**Specific Conditions**

**c) 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.	

**d) Health Effects Information:**

Exposure Limits:	• Wood Dust (certain hardwoods such as beech and oak):	ACGIH TLV – TWA 1mg/m <sup>3</sup> .
	• 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".	

**e) Precautions, Safe Handling:**

• Wood Dust:	Avoid dusty conditions and provide good ventilation.
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**f) 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.

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**g) 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.

**NOTE 2: "IMPORTANT:** The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification. Duratex S/A makes no warranty of any kind, express or implied concerning the accuracy or completeness of the information and data herein. Duratex S/A will not be liable for claims relating to any party's use of or reliance on information and data contained herein regardless of whether it is claimed that the information and data are inaccurate, incomplete or otherwise misleading. It is incumbent upon the user to obtain the most up-to-date information."

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**5. ADDITIONAL INFORMATION:**

a) Designed by: Products and Process Normalization.

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