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### **SECTION 1: IDENTIFICATION**

Product Identifier: Unfinished Medium Density Fiberboard (MDF) Panels.

General use: Re-manufacturing, construction and furniture processes. May receive

melaminic or paint covering.

Distributor: Masisa S.A.

Apoquindo 3650, floor 10, Santiago Chile

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#### SECTION 2: HAZARDS IDENTIFICATION

**CAUTION!** Sawing, sanding or machining wood products may produce wood dust, which cause an explosion hazard. This product may release small quantities of formaldehyde (CAS 500-00-0) gases. Emissions decrease through time as the panel ages. Formaldehyde and/or wood dust may cause irritation to the eye, skin and respiratory tract.

**Hazard Statements:** May form combustible dust concentrations in air. May cause cancer (inhalation).

#### **Precautionary statements:**

Wash your hands after you handle the product.

While you handling the product it is not recommend to drink, eat and smoke.

Is recommended to use personal equipment protection during the handling process of the product.

You should obtain the information about the product before you handle it.

You should store the product in a suitable place.

In case of emergency, you must proceed the indications of this SDS.

Other Hazards: No additional information available.



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### **SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

Wood: > 85%

Paraffin (CAS 8002-74-2): <1%

Resin Urea Formaldehyde (8011-05-6): < 20%

Formaldehyde, residual (500-00-0): < 0,025%

### **SECTION 4: FIRST AID MEASURES**

Inhalation: Remove to fresh air. Get medical attention if irritation persists, severe

coughing or breathing difficulty occurs.

Eye contact: Treat dust in eye as foreign object. Flush eyes with large amounts of water.

Remove to fresh air. If irritation persists, get medical attention.

Skin contact: Wash affected areas with soap and water until dust is entirely removed from

skin. Get medical attention if rash or irritation persists or dermatitis occurs.

**Ingestion:** Not applicable under normal conditions of use.

Most important symptoms and effects, both acute and delayed: Mucosal irritation (eyes, nose, throat, respiratory tract), difficult breathing and dermatitis. Formaldehyde and wood dust may cause respiratory sensitization such as asthma and pre-existing respiratory disorders may be aggravated by exposure.

### **SECTION 5: FIRE FIGHTING MEASURES**

**Extinguishing media**: Use water in spray form, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

**Combustion products:** Thermal decomposition can produce oxides of carbon, aldehydes, and organic acids.

**Fire fighting instructions:** Evacuate area. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus. Use water spray to cool fire exposed surfaces and to protect personnel.



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Note: Wood dust is highly explosive, and there is a constant risk if dust comes into contact with heat sources. The Low Explosive Limit (LEL) is  $40q/m^3$  for wood dust.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Land Spill: Generally not applicable to panel products, however if a spill occurs the applicable federal, provincial, state, and local regulations must be followed.

Water Spill: Generally not applicable to panel products, however if a spill occurs the applicable federal, provincial, state and local regulations must be followed.

Note: Use precaution to control dust generation from abrasive cutting or sanding of the finished product.

#### SECTION 7: HANDLING AND STORAGE

**Handling:** Provide adequate ventilation to avoid possible build up of formaldehyde emissions and wood dust. Wood dust clean up and disposal activities should be accomplished in a manner to minimize creation of airborne dust. Do not inhale dusts during clean up. Wash hands and face after to handle and before to eat, drink or smoke. If necessary, use the personal protective equipment (section 8).

**Storage:** stored in a well-ventilated and dry area, away from heat sources, flames and sparks. Avoid storing in areas of high relative humidity and temperature. High temperature and inadequate ventilation could allow high concentrations of gaseous formaldehyde in the storage area.

Note: Refer to the Composite Panel Association (CPA) Technical Bulletin titled "Storage and Handling of Particleboard and MDF" for further information. Available on website www.pbmdf.com.

### **SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Engineering controls**: Certain activities of the re-manufacturing process of this product could possibly produce ligno-cellulosic fibers or gaseous formaldehyde. Provide adequate general and local exhaust ventilation to keep airborne contaminant concentration levels to meet OSHA requirements for wood dust exposure.



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## Occupational limits exposure:

Hazardous component	Identification CAS#	Exposure Limit OSHA PEL	Exposure Limit ACGIH TLV	
Wood	Not applicable	5 mg/m³ TWA 10 mg/m³ STEL	5 mg/m³ TWA 10 mg/m³ STEL	
Paraffin	8002-74-2	Not available	2 mg/m³ TWA (vapor)	
Resin Urea Formaldehyde	8011-05-6	Not available		
Formaldehyde (residual)	500-00-0	TWA = 0,75 ppm STEL = 2 ppm	TLV – C = 0,3 ppm	
Saw dust	Not aplicable	Not aplicable	Not aplicable	

Note:

CAS: Chemical Abstract Services Number

TWA: Time Weighted Average

OSHA: Occupational Safety and Health

TWA - C: Time Weighted Average - Ceiling

Administration

ACGIH: American Conference of

Governmental Industrial Hygienists

STEL: Short Term Exposure

PEL: Permissible Exposure Limits

ppm: part per milion

TLV: Threshold Limit Value

### **Personal Protective Equipment (PPE):**

**Respiratory:** Protective mask against dust and formaldehyde when the exposure limits are exceeded.

**Eyes and face:** Safety glasses with side shields are recommended when cutting, sanding, sawing, sanding or machining this product.

**Skin and body protection**: Protective equipment such as gloves and other garments are needed to reduce skin contact. Safety boot with steel toe.

**Protective clothing**: Wear side shield safety glasses during the re-manufacturing of this product. Other protective equipment such as gloves and outer garments may be needed depending on dust conditions.



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### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: light to dark colored solid, color and odor are depends on the wood species.

Boiling Point: not applicable Evaporation Rate: not applicable

Freezing Point: not applicable Melting Point: not applicable

Molecular Formula: not applicable Molecular Weight: not applicable

pH: not applicable Solubility in Water: Insoluble

Specific Gravity: generally < 1 Vapor Density: not applicable

Vapor Pressure: not applicable

Viscosity: not applicable

Volatiles: no applicable

### **SECTION 10: STABILITY AND REACTIVITY**

Stability: Stable under normal conditions.

Conditions to Avoid: Extreme heat and high relative humidity may liberate emissions of formaldehyde.

**Reactivity:** Avoid product contact with open flame and any temperature sources that could induce thermal decomposition. Avoid product contact with oxidizing agents, drying oils and strong acids.

**Hazardous Decomposition:** Product does not decompose at ambient temperatures. Thermal decomposition can produce oxides of carbon, aldehydes, and organic acids.

Hazardous Polymerization: Will not occur.

### **SECTION 11: TOXICOLOGICAL INFORMATION**

**Acute toxicity:** Mucosal irritation (eyes, nose, throat, respiratory tract), difficult breathing and dermatitis. Formaldehyde and wood dust may cause respiratory sensitization such as asthma and pre-existing respiratory disorders may be aggravated by exposure.

#### Chronic effects:



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Exposure to gaseous formaldehyde at elevated levels may cause temporary irritation to the nose and throat as well as lead to respiratory disorders.

Wood dust (generated from sawing, sanding or machining the product) may cause nasal dryness, irritation, coughing and sinusitis. The International Agency for Research on Cancer (IARC) classify wood dust and formaldehyde as a human carcinogen (IARC Group 1).

### **SECTION 12: ECOLOGICAL INFORMATION**

Not available for product in purchased form. See Component Analysis.

Component Analysis – Aquatic Toxicity Formaldehyde (50-00-0)

Test & Species	Conditions	
96 Hr LC50 fathead minnow	24.1 mg/L	flow through
96 Hr LC50 bluegill	0.10 mg/L	flow through
5 min EC50 photobacterium phosphorium	9.0 mg/L	
15 min EC50 photobacterium phosphorium	7.26 mg/L	
25 min EC50 photobacterium phosphorium	6.81 mg/L	
96 Hr EC50 water flea	20 mg/L	

### **Environmental Fate**

Not available for product in purchased form.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

**General Product Information:** This panel product is recyclable. It is the user's responsibility to determine at the time of disposal whether your product meets any applicable criteria for hazardous waste disposal. Disposal must follow applicable federal, provincial, state and local regulations.

**EPA Waste Number & Descriptions:** This product in purchased form is not considered hazardous waste under federal hazardous waste regulations 40 CFR 261. If the product is altered by processing, use or contamination, waste can be tested using methods described



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in 40 CFR 261 to determine whether the altered product meets the criteria for hazardous waste.

**Disposal Instructions:** If disposed or discarded in its purchased form, ordinary trash collection is acceptable. It is the user's responsibility to determine at the time of disposal whether your product meets RCRA criteria for hazardous waste. Follow applicable federal, state, provincial and local regulations.

Note: Waste disposal must be according to the country, state, provincial and any other local applicable requirements.

### **SECTION 14: TRANSPORT INFORMATION**

Department of Transportation (DOT): This product is not a hazardous material according to the Department of Transportation – DOT (USA).

### **SECTION 15: REGULATORY INFORMATION**

- **U.S. OSHA Hazard communication Standard:** This product is not classified as hazardous in accordance with OSHA 29 CFR (Code of Federal Regulations) 1910.1200.
- **U.S. Superfund Amendments and Reauthorization Act (SARA)**: This product contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA Comprehensive Environmental Response Compensation & Liability Act (40 CFR 302.4).

Workplace Hazardous Material Information System: This product is not considered a controlled product.

### **SECTION 16: OTHER INFORMATION**

This information was believed to be accurate at the time of preparation, and compiled from sources believed to be reliable. Products and/or articles manufactured from this product may have characteristics that are significantly different; therefore, it is the user's responsibility to investigate and understand other pertinent information and to comply with all applicable laws



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and regulations. There is no warranty of any kind, express or implied, concerning product or merchantability or fitness thereof for any purpose. Buyer assumes all risk of use, storage and handling of the product in compliance with applicable Federal, State and local laws and regulations. **Masisa 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 the information and data are inaccurate, incomplete or otherwise misleading.