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
+56 2 800801000
+56 9 98267656

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.
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.
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 40g/m³ 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.


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.
Occupational limits exposure:

<table>
<thead>
<tr>
<th>Hazardous component</th>
<th>Identification CAS #</th>
<th>Exposure Limit OSHA PEL</th>
<th>Exposure Limit ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wood</td>
<td>Not applicable</td>
<td>5 mg/m³ TWA</td>
<td>5 mg/m³ TWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mg/m³ STEL</td>
<td>10 mg/m³ STEL</td>
</tr>
<tr>
<td>Paraffin</td>
<td>8002-74-2</td>
<td>Not available</td>
<td>2 mg/m³ TWA (vapor)</td>
</tr>
<tr>
<td>Resin Urea Formaldehyde</td>
<td>8011-05-6</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Formaldehyde (residual)</td>
<td>500-00-0</td>
<td>TWA = 0.75 ppm</td>
<td>TLV – C = 0.3 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL = 2 ppm</td>
<td></td>
</tr>
<tr>
<td>Saw dust</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

Note:

CAS: Chemical Abstract Services Number
OSHA: Occupational Safety and Health Administration
ACGIH: American Conference of Governmental Industrial Hygienists
PEL: Permissible Exposure Limits
TLV: Threshold Limit Value

TWA: Time Weighted Average
TWA – C: Time Weighted Average – Ceiling
STEL: Short Term Exposure
ppm: part per million

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.
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
Freezing Point: not applicable
Molecular Formula: not applicable
pH: not applicable
Specific Gravity: generally < 1
Vapor Pressure: not applicable
Volatile: no applicable
Evaporation Rate: not applicable
Melting Point: not applicable
Molecular Weight: not applicable
Solubility in Water: Insoluble
Vapor Density: not applicable
Viscosity: not 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:
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)**

<table>
<thead>
<tr>
<th>Test &amp; Species</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>96 Hr LC50 fathead minnow</td>
<td>24.1 mg/L flow through</td>
</tr>
<tr>
<td>96 Hr LC50 bluegill</td>
<td>0.10 mg/L flow through</td>
</tr>
<tr>
<td>5 min EC50 photobacterium phosphorium</td>
<td>9.0 mg/L</td>
</tr>
<tr>
<td>15 min EC50 photobacterium phosphorium</td>
<td>7.26 mg/L</td>
</tr>
<tr>
<td>25 min EC50 photobacterium phosphorium</td>
<td>6.81 mg/L</td>
</tr>
<tr>
<td>96 Hr EC50 water flea</td>
<td>20 mg/L</td>
</tr>
</tbody>
</table>

**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
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.
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.