

# SAFETY DATA SHEET FOR PLAIN & PRE-LAMINATED CHIPBOARD

## Product and Company Information

- **Manufacturer:**  
GREENLAM LIMITED, INDIA
- **Industry address:**  
Greenlam Ltd, Plot no. 19,19A, 19A-1, APIIC-IP Naidupeta,  
Menakuru Village, Naidupeta Mandal, Tirupati District,  
Andhra Pradesh, 524421 India
- **Trade names:**  
Greenlam Chipboard, Greenlam Pre-laminated Chipboard
- **Corporate office address:**  
Greenlam Industries Ltd., 203, 2<sup>nd</sup> floor, West Wing, World Mark 1,  
Aerocity, IGI Airport Hospitality District, New Delhi-110037  
Telephone: 011-42791300, Website: www.greenlam.com
- **Product uses:**  
Chipboards are used in furniture, cabinets, doors and  
construction industries.  
In case of emergency, contact: 9949479154

## Hazard Identification

<b>Physical state:</b>	Solid
<b>Color:</b>	Straw yellow to medium brown.
<b>Hazard statement:</b>	<b>Intact state:</b> Chipboards. are not hazardous when intact.
<b>Physical hazards:</b>	Board edges and broken panels can cause skin cuts.
<b>Formaldehyde:</b>	This product contains and may release formaldehyde, a harmful chemical.
<b>Dust hazards:</b>	Dust from Chipboards is hazardous and classified by the WHO as carcinogenic.
<b>Inhalation:</b>	Remove them from exposure move to an area with fresh air. <b>Monitor for discomfort:</b> If they continue to feel unwell, seek medical attention.
<b>Eye</b>	<b>Irrigate with water:</b> Rinse the eyes thoroughly with clean water. <b>Monitor for discomfort:</b> If discomfort continues, seek medical attention.
<b>Skin</b>	<b>Wash off with soap and water:</b> Clean the affected area thoroughly. <b>Monitor irritation:</b> If any irritation or discomfort persists consider seeking medical advice.
<b>Ingestion</b>	<b>Wash the mouth with water:</b> Rinse thoroughly to remove any particles. <b>Monitor for symptoms:</b> If any discomfort or symptoms persist, seek medical attention.

## First Aid and Measures

- **General advice:** Consult a physician: Seek medical advice promptly.
- **Show the safety data sheet:** Provide the MSDS to doctor for detailed information.
- **Move out of the dangerous area:** Ensure the affected person is in a safe environment.
- **Eye contact: Flush the eyes with water:** Rinse thoroughly with clean water to remove any irritants.
- **Monitor for irritation:** If irritation persists, seek medical attention.
- **Skin contact: Wash the skin with soapy water:** Clean the affected area thoroughly. **Seek medical advice:** If chronic symptoms of exposure occur, consult a physician.
- **Inhalation:** Gaseous formaldehyde and wood dust may irritate respiratory system. Seek fresh air if PEL values are exceeded. Seek medical advice for chronic symptoms of exposure.

## Firefighting Measures

**Dust from cutting and milling operations is an explosive hazard. Thermal decomposition produces irritating and toxic gases including CO, Aldehydes and organic acids.**

<b>Extinguishing media:</b>	Use water, dry chemical or carbon dioxide (CO <sub>2</sub> ) to extinguish flames.
<b>Special hazards arising from the substance or mixture:</b>	Don't inhale smoke and gases produced during the combustion.
<b>Flammability:</b>	The material will burn: Particleboards or Chip boards are flammable. Avoid wood dust contact with ignition sources: Keep wood dust away from sparks, open flames, and other ignition sources.
<b>LEL:</b>	40 gm/m <sup>3</sup> for wood dust
<b>Auto ignition temperature:</b>	204 - 260 centigrade
<b>Flash point:</b>	None
<b>Hazardous combustion products:</b>	Smoke, Fume, Oxides of carbon, and Aldehydes.
<b>Protective measures in fire:</b>	Evacuate area. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.
<b>NFPA rating:</b>	Health: 1, Flammability: 2, Reactivity: 0

## ⚠ Accidental Release Measure

- **Personal precautions & emergency procedures:** The material is non-hazardous in its solid sheet or board form.
- **Spillage not applicable:** Since it is provided as solid sheets or boards, spillage is not a concern.
- **Maintain proper ventilation:** Ensure good ventilation in the area to avoid inhalation of dust or fumes.

## Environmental Precautions:

- **Prevent contamination:** Avoid allowing dust or particles to enter water bodies, sewage systems, or soil.
- **Proper disposal:** Dispose of waste material according to local regulations to minimize environmental impact.
- **Maintain good ventilation:** Ensure proper ventilation to reduce the concentration of airborne particles.
- **Methods for clean-up:** Recover undamaged materials for reuse or reclamation. Sweep or pick up scrap material and dust and place in disposal containers.

## 🧤 Handling and Storage

When handling and storing Chipboard, it's important to:

- **Protect your hands:** Use gloves to avoid small splinters of wood.
- **Maintain good housekeeping practices:** Regularly clean up areas where wood dust settles to prevent excessive accumulation.
- **Avoid generating explosive levels of wood dust:** Ensure proper ventilation and dust control measures to keep wood dust levels in the air low. Store in a cool, dry, and well-ventilated area.

**Note: In poorly ventilated areas, particularly under moist and warm conditions, small traces of formaldehyde may be emitted.**

## 🧯 Exposure Controls / Personal Protection Equipment

- **WEL wood dusts:** 8 hour WEL 3 mg / m<sup>3</sup> WEL Formaldehyde - 8 hour WEL 2 ppm (2.5 mg / m<sup>3</sup>) STEL 15 minute 2 ppm (2.5 mg/m<sup>3</sup>).
- **Respirator:** Approved respirator under dusty conditions recommended.
- **Ventilation: Local exhaust:** Due to explosive potential of wood dust when suspended in air, precautions should be taken to prevent sparks or other ignition sources in ventilation equipment. Use of total enclosed motors is recommended.
- **Gloves:** Recommended to reduce skin contact, except where moving machinery parts expose fingers to hazards.
- **Engineering controls:**
  - Provide adequate ventilation to maintain exposure levels below applicable limits wherever fabrication works, cutting, sanding and generate dust or fines.
  - Measures to prevent and mitigate dust explosion such as dust-tight fittings for electrical connections and explosion vents should also be provided in the dust collection system.
- **Eye/face protection:** Wear safety glasses when sawing, sanding, drilling or routing.

## 🧯 Exposure Controls / Personal Protection Equipment

- **Skin protection:** No special ventilation requirements under ordinary conditions. Wood sensitive individuals should take precautions to avoid skin contact by wearing appropriate protective gloves and clothing.
- **Foot protection:** Wear safety shoes.
- **Respiratory protection:** Where airborne concentrations of dust are expected to exceed the allowable exposures approved respirator should be worn, chosen based on the form and concentration of the contaminant. Respirator usage must be in accordance with the OSHA Respiratory Protection Standard.
- **General hygiene:** Wash thoroughly after sawing, cutting, drilling, or routing. Have eyewash facilities at different points of work.

## 🧪 Physical Property

**Colour:** Straw to tan (moisture resistant boards may have green surface or core ) density 500 - 900 kg / m<sup>3</sup>.

## 🔥 Stability & Reactivity

- **Reactivity:** Chipboards are non-reactive under normal conditions.
- **Conditions to avoid:** Extreme heat high temperatures can cause the emission of formaldehyde.
- **Incompatible materials:** Strong acids Oxidizing agents these materials can react with chipboards and potentially cause harmful effects.
- **Hazardous decomposition products:** Under normal conditions of storage and use, chipboards should not produce hazardous decomposition products. However, during thermal decomposition, the following may be released: Oxides of carbon, Aldehydes, Organic acids. These substances can be harmful, so it's important to handle chipboards with care, especially under high temperatures.
- **Hazardous polymerization:** No hazardous polymerization or reactions occur.

## ⚠ Toxicological Data Chronic Effects

- Quantitative data on the toxicity of this product is not available.
- Chronic effects of skin contact with wood dust are not fully known and may vary.

## ♻ Disposal Consideration

**For the disposal of chipboards:**

- **Follow regulations:** Ensure disposal is in accordance with regional, national, and local laws and regulations.
- **Disposal methods:** This product can be incinerated or land filled.
- **Check regulations:** Verify with local, state, and federal regulations before disposal.

## Transportation Information

No transport warning sign is required.

## Regulatory Information

In India, the use of hazardous materials is regulated under the occupational safety, Health and working conditions code; 2020. This code consolidates various regulations related to work place safety, including the management of hazardous substance. It aims to ensure the safety of workers by setting standards for the handling, storage and disposal of hazardous materials.

## Handling and Stacking Of boards

Chipboards, whether plain or pre-laminated, require care in handling and stacking to prevent damage, since they are in 'ready to use' condition. Every care is taken at the time of dispatch at the factory, by wrapping each board with protective film and paper. Similar care has to be taken while unloading the material, to avoid damage of the edges and corners, which are most vulnerable in any type of chipboards.

### Stacking:

The best method of stacking chipboards are as follows:

#### A. Horizontal stacking one over the other using chipboard reapers as shown in the drawing.

- Stack them on flat surface.
- Keep a thicker board , e.g. 25 mm, underneath and stack the thinner board on it.
- You can also use battens for the stacks.

#### B. Vertical stacking

- Vertical stacking should be avoided as far as possible in case of limitation of space. Vertical stacking can be done by keeping vertical supports and keeping uniform gap between the boards from one end to other end.

### Right method of storage of boards

#### Note:

- The size of wooden batten / support shall be min. 100 mm (width) x 100 (height) mm.
- Minimum nos. of battens at bottom / support shall be five.
- Batten / supports shall be straight, and no bend / warpage is allowed.

#### Disclaimer:

- **Accuracy:** The information is accurate to the best of their current knowledge.
- **Liability:** Greenlam Limited assumes no liability for the completeness or accuracy of the data.
- **User responsibility:** It is the user's responsibility to determine the suitability of the product for their specific needs.
- **Hazards:** The disclaimer notes that while certain hazards are described, they do not claim these are the only hazards that exist.
- **Purpose:** The information is intended to inform about the products and their application possibilities, not as a guarantee of any specific product characteristic.