



MSDS - MATERIAL SAFETY DATA SHEET

The following information is the health and safety regulations of
ECOBoards, which is produced by Ecoboard Co.,

Section 1: Product Identification and Supplier

Product Name: ECOBoard

Th Netherlands

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Uses: Construction of furniture, cabinets, doors, Interior Decorating industries and general purpose building boards.

Section 2: Boards Ingredients and Proportion

Ingredients	Proportion
Straw	53%-76%
Cotton stalk	20%-40%
MDI(Isocyanate resin)	4%-6%

Section 3: Physical and Chemical Properties

Appearance: The products are manufactured as pressed panels ranging in thickness from 5 mm to 40 mm. They are made from agri-fibers that are bonded together with resin.

Odor: Characteristic straw or wheat odor

Density: 450-850 kg/m³

PH: Not applicable

Vapour Pressure: Not applicable

Vapour Density: Not applicable

Boiling Point: Not applicable

Melting Point: Not applicable

Flash Point: Not applicable

Solubility In Water: Not soluble

Flammability Limit: Not available

Auto Ignition Temp: Does not auto ignite

Viscosity: Not applicable

Evaporation Rate: Not applicable

VOCs Content: Not applicable

Volatile Percent: Not applicable

Section 4: Physical and Mechanical Properties

Index Name	Unit	ECOBoard or Agri-Board
Thickness Tolerance (within panel)	mm	+/-0.20
Size Tolerance (within panel)	mm	0/+5mm max in length and width
Density	Kg/m ³	650-800
Static bending strength	MPa	≥13
Internal bond strength	MPa	≥0.35
Nail-holding power of the vertical surface	N	≥1100
Nail-holding power of the paralleling surface	N	≥700
Swelling rate of 2h	%	≤6.0
Releasing amount of free formaldehyde method	mg/L	0
Fire retardant	—	

Section 5: Hazard Identification

Agri-fiber board itself is not classified as dangerous goods, but dust can be generated when machining, the potential health effects will be following:

Skin:

Prolonged and repeated skin exposure may cause irritation such as itchiness, redness or allergic dermatitis.

Eyes: Eye contact with dust and vapour may be painful and irritating may cause redness and discomfort.

Ingestion: It quite unlikely to happen. However, swallowing the dust may result in minor abdominal discomfort or pain.

Inhalation: Inhalation of fiber dust and vapour may be irritating to the nose, throat and lungs.

Chronic: Provided that the precautions and practices noted in this MSDS are followed and airborne dust is in controlled, one should not anticipate any chronic health effects. However, for some people who are repeatedly exposed to uncontrolled dust from the product over a long time, they may have allergic dermatitis, chronic nose and throat irritation or asthma.

Section 6: First Aid Measures

Swallowed / Inhaled:

If dust is swallowed, give water to drink. Seek medical attention if any abdominal discomfort. If dust is inhaled, leave the dusty area.

Wear Class P1 or P2 disposable face piece or replaceable filter when working with the product.

Eyes:

Dusts unfortunately contact with eyes will can cause allergies, Flush with flowing water for at least 15 minutes, and if symptoms persist seek immediate medical attention. Wear safety glasses or goggles when working with the product.

Skin:

Wash thoroughly with mild soap and water. Remove clothing if contaminated with dust. If irritation persists, seek medical attention. Wear long sleeve shirts and trousers.

Section 7: Protective measures

Engineering controls	<p>All work with these agri-fiber products should be carried out in such a way as to minimize the generation of dust, gas and vapours.</p> <p>Under factory conditions, sawing, drilling, sanding, etc, should be done with equipment fitted with exhaust devices capable of removing dust, gas and vapour at source. Hand powered tools should only be used in well ventilated. Work areas should be cleaned at least daily, and dust removed by vacuum cleaning or wet sweeping method.</p>
Skin Protection	<p>Wear loose, comfortable clothing. Long-sleeved shirts and trousers are recommended if skin irritation occurs. After handling panels, wash with mild soap and water. Do not scratch or rub the skin if it becomes irritated. Wash work clothes regularly and separate from other clothes. Comfortable work gloves should be worn.</p>
Respiratory Protection	<p>A replaceable filter or disposal half-face piece respirator should be worn when sawing, drilling or sanding etc.</p>
Eye Protection	<p>Safety glasses or non-fogging goggles should be worn sawing, drilling or sanding etc.</p>
Flammability	<p>These agri-fiber products are flammable but difficult to light. Avoid a build-up of dust and keep all storage and work areas well ventilated. Avoid sources of radiant heat and flame; and avoid sparks and sources of ignition in all electrical equipment, including dust extraction equipment.</p> <p>People must not smoke in storage or work areas.</p>

Section 8: Safe Handling Information

Storage and Transport:

Store under cool and dry conditions, out of exposure from direct sunlight and away from sources of possible ignition. No special transport requirements are considered necessary as this product is not regulated as dangerous good.

Spillage and Disposal:

Any disposal of general waste generated from processing of the products including off cuts, sanding dust and fine particles should be directed to the approved landfill sites or burned in approved incinerators by the local authorities. The intact product and dust must not be burnt in barbecues, combustion stoves or open fires in the home, as irritating gases are emitted.

Fire and Explosion Hazards:

The dust produced when machining or sanding the products is finer and more readily dispersed into the atmosphere. Therefore, an efficient extraction system is required to prevent accumulation of dust, which might create fire risk. Should fire happen, water and/or dry foam extinguishers should be used to extinguish it.

The information contained herein is correct to the best of our knowledge. However ECOBoard makes no warranty, expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. We suggest that you evaluate the product as well as the information, formulae and recommendations to determine fitness for the purpose for which its use proposed. No protection from any law or patent is to be inferred. Further information may be obtained by contacting the telephone number mentioned in Section 1.