

# Material Safety Data Sheet



## Product Overview

saveBOARD is focused on building a circular economy by turning composite packaging waste back into products that re-enter the local supply chain eliminating future waste. We manufacture healthy, affordable, high performance building materials that make a circular economy an everyday reality.

We upcycle packaging waste in Australasia through the implementation of proven, scalable technologies that turn locally collected waste into locally distributed, recyclable building

## Product Names

saveBOARD Exposed  
saveBOARD Rigid Air Barrier  
saveBOARD Roofing Substrate

saveBOARD Paperfaced  
saveBOARD Ceiling Tiles  
saveBOARD Multi-use Panel

## Manufacturer

Upcycled Building Materials Ltd  
30 Sunshine Ave  
Te Rapa  
Hamilton 3200  
New Zealand

Upcycled Building Materials Australia Pty Ltd  
11 Production Avenue  
Warragamba  
NSW 2705  
Australia

## Physical and Chemical Properties

**Composition:** Wood fibres, polyethylene, cellulose, aluminium, glass oxide, polypropylene.

**Odour:** No odour

**pH:** 7.4 (pH7 being neutral)

**Boiling Point:** N/A

**Melting Point:** 200°C

**Max. Recommended Service Temp:** 80°C

**Vapour Pressure:** N/A

**Density:** 700-900 kg/m<sup>3</sup> depending on product

**Flash Point:** N/A

**Explosive Limits:** N/A

**Solubility in Water:** Not soluble

**Moisture Absorption:** Less than 5% by weight

Relative Vapour Density: N/A Percent

**Volatiles:** Nil

**Corrosiveness:** Non-corrosive

## Chemical Stability and Reactivity

saveBOARD building products are chemically stable. Hazardous reactions will not occur under normal conditions of use and storage. Avoid contact with strong acids, strong bases, or oxidising agents.

## Storage and Transport

Packaging as recommended by the manufacturer.

Keep clean and dry and do not bend product or packaging. Do store more than 6x pallets high.

saveBOARD building products are not classified

**UN Number:** Not Allocated

**Class:** Not Allocated

**Hazchem Code:** Not Allocated

**DOT(US):** Not Regulated

**IATA:** Not Regulated

**IMDG:** Not Regulated

## Moisture Absorption

The structural integrity of saveBOARD building products are affected by moisture. Exposure of saveBOARD building products to an atmosphere of 49°C at 95% relative humidity for four days showed moisture absorption by weight of less than 5%.

## Hazard Identification

saveBOARD building products are considered as non-hazardous and non-dangerous goods.

## Fire Hazards

saveBOARD products are a Material Group 3 product, same as plywood, MDF, particle board unless they have had fire retardants added during manufacture. As per our Declare label, our boards contain approx. 70% wood fibre, 20% is Polyethylene and up to 4-5% aluminium.  
<https://declare.living-future.org/products/saveboard>

When Polyethylene is burnt by itself, it produces 90% carbon monoxide, 6% carbon dioxide, remaining 4% are small quantities of ethylene, propylene, butane. Based on research these other components can provide throat irritation. When wood is burnt carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), sulfur oxides (SO<sub>x</sub>), and nitrogen oxides (NO<sub>x</sub>) are released. Carbon monoxide and carbon dioxide are the ones that will kill you in both cases.

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## Health Effects/Personal Protection

There are no known health hazards relating to the use or handling of saveBOARD building products. No protective clothing is required when handling or installing saveBOARD building products. Any free fibres which may be present are not of respirable size.

Caution should be taken when cutting saveBOARD products. Use of personal protective equipment such as cut resistant gloves, safety glasses, dust mask is highly recommend. Follow the manufacturer's use and safety instructions, as well as site and individual safe working practices and requirements.

No first aid measures are expected under normal conditions of use, handling, and installation of saveBOARD building products. If exposed to fumes from combustion of products, move to fresh air and seek medical attention if symptoms persist. If a substantial portion of the product is accidentally ingested, do not induce vomiting and immediately seek medical attention.

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## Volatile Organic Compounds (Voc) Emissions

saveBOARD products are considered as low-emitting product. saveBOARD building products have been tested for VOC and formaldehyde emissions according to ASTM D5116-2017, 7-day emission data with the following results:

Total Volatile Organic Compound Rate = 0.004 mg/m<sup>2</sup>/hr (Green Star Interior limit ≤0.500 mg/m<sup>2</sup>/hr)

Formaldehyde Emission Rate: 0.005 mg/m<sup>2</sup>/hr (Green Star Interior limit ≤0.100 mg/m<sup>2</sup>/hr)

The measured VOC and formaldehyde emissions meet the threshold limits set under applicable green building standards and regulations.

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## Environmental Information

saveBOARD building products are manufactured using 100% recycled composite packaging using a minimum of 95% post-consumer / industrial recycled content (i.e. used beverage cartons, soft plastics and mixed fibre).

saveBOARD products are also Declare certified to be Red-List Free and can be used in Living Building Challenge projects.

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## Micoplastics Information

Microplastics can be generated by any plastic component during wear or breakdown. Most micro plastics in the world are generated by car tyres, synthetic clothes, city dust and road markings.

Like any material containing plastic (including saveBOARD), they should be replaced at signs of wear. As with saveBOARD, if they are showing signs of wear they should be removed and returned to saveBOARD for reprocessing into new boards. When cutting saveBOARD products, the saw dust should be collected and disposed responsibly preventing it entering the open environment as dust

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## Disposal Considerations

saveBOARD building products are 100% recyclable (by saveBOARD) at end of life. Any recovered products (off cuts or end of life) will be shredded and remanufactured into new saveBOARD products providing a circular economy solution for our products.

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## Zero ODP

saveBOARD building products manufactured from 100% waste composite packaging have an Ozone Depleting Potential (ODP) of zero, meaning no Ozone Depleting Substances (ODS) are present in the final product or used in the direct manufacture of the product.