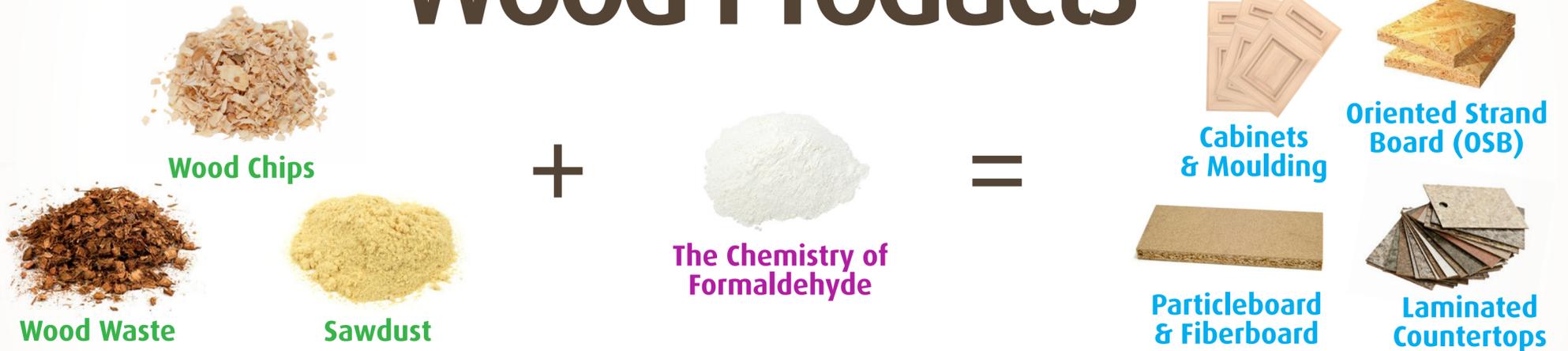


# Formaldehyde: Contributing to a Sustainable Future for Wood Products



## Renewable

## High Performance

## Efficient

### Wood Fiber & Wood Waste



63%

vs



95%

Only 63% of a tree can be used for solid lumber.

Composite panels allow 95% use of every tree.

Formaldehyde-based resins help the utilization rate of wood resources, resulting in a wide variety of value-added composite wood products.



Wood panel products can be carbon neutral based on greenhouse gas emissions.

### Formaldehyde Resins



Formaldehyde is a natural substance produced by every living organism.

Studies have shown that formaldehyde does not accumulate in the environment, people, plants or animals.



Technical Performance

+

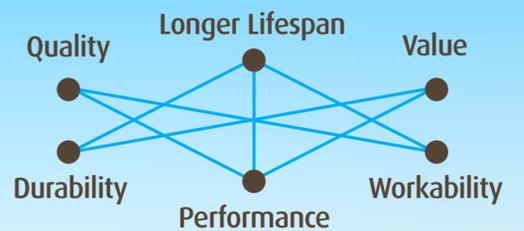


Economic Value

Currently, there is no alternative that can provide a better combination of technical performance and economic value than formaldehyde-based resins.

Formaldehyde-based glues and resins provide versatility and innovative solutions to wood products.

### Composite Wood Panels



Composite Wood Panels are typically made from recovered wood waste that would otherwise be burned or disposed of in a landfill, so they allow us to make better use of wood fiber.



Over the course of 100 years, net GHG emissions associated with wood-based houses are 20% to 50% lower than emissions associated with thermally comparable houses using steel or concrete-based building systems.

## Stringent Formaldehyde Regulations and Emissions Standards in North America



U.S. EPA Clean Air Act Standards

Emissions from the composite wood panel manufacturing process meet all U.S. EPA Clean Air Act standards.



California Air Resources Board (CARB)

Nearly 100% of N. American composite panel manufacturers comply with the CARB formaldehyde emissions regulation, the world's most stringent product testing and certification standard.



The Formaldehyde Standards for Composite Wood Products Act

With the industry's support, the Formaldehyde Standards for Composite Wood Products Act, signed into law in 2010, established a framework for the regulation of formaldehyde emissions from composite wood products at the national level.



The Eco-Certified Composite (ECC) Sustainability Standard

The Eco-Certified Composite (ECC) Sustainability Standard and Certification Program is a voluntary industry standard developed by the Composite Panel Association (CPA) for composite wood panels and finished products made with particleboard, MDF, hardboard and engineered wood siding and trim.