



**Activ'Air®**

*Cleaner and healthier air for your future*





**Activ’Air® is a new technology that can be added to any Gyproc plasterboard.**

**It is designed to decompose formaldehyde emissions into non-harmful inert compounds, eliminating the risk of re-emission.**

**Activ’Air® is available as an optional additives upon request.**

## How Activ’Air® cleans the air

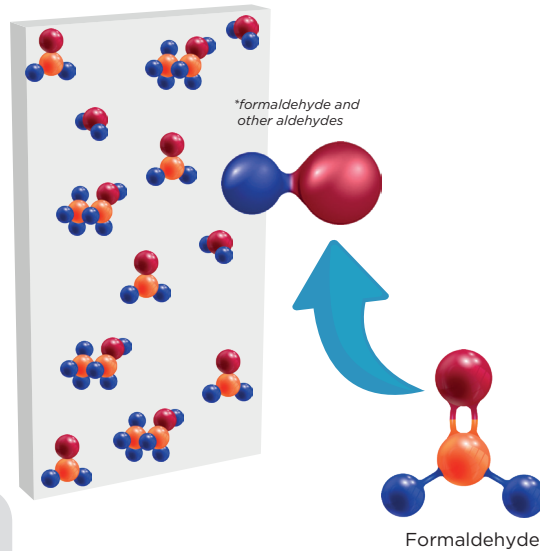
**Activ’Air® captures formaldehyde filled gases in the air and converts formaldehyde and other aldehydes into inert compounds.**

**Activ’Air® then traps formaldehyde within the board for up to 50 years, based on tests and analysis.**

## Clearing the air to reduce volatile organic compounds (VOCs) such as formaldehyde

Formaldehyde is a colourless, flammable, strong-smelling chemical used in building materials and household products like particleboard, plywood, glues, adhesives, permanent-press fabric, paper coatings, and insulation. It also serves as an industrial fungicide, germicide, disinfectant, and a preservative in mortuaries and labs. Naturally occurring, it is produced by most living organisms in small amounts.

Common sources of formaldehyde gas in homes include lit cigarettes, particleboard storage cabinets, subflooring, carpeting, wallboard, electronics, furniture, ceiling and flooring materials, door casings, insulation, household chemicals, and open stoves or heaters. The most common exposure is by inhaling air containing formaldehyde, especially indoors where the gas is released from these products. Exposure to liquid formalin may occur through skin contact or ingestion.



- INDOOR AIR QUALITY
- HEALTH & WELL BEING
- ECO FRIENDLY
- PRODUCTIVITY GAIN
- STABILITY
- RECYCLING CERTIFIED

- SMOOTH MANUAL FINISH
- INSPIRING SPACES

## How can formaldehyde affect my health?

Breathing air containing low levels of formaldehyde can cause burning and watering eyes. As levels increase, it can cause burning of the nose and throat, coughing, and difficulty breathing. Some people may be more sensitive to formaldehyde and experience effects at lower levels. Strong mixtures of formaldehyde gas or liquid can cause irritation or a rash if they contact the skin. When swallowed, formaldehyde can cause severe pain, vomiting, and diarrhea. Formaldehyde that enters the bloodstream can produce effects similar to drinking too much alcohol.



In occupational settings where people have significant daily exposure to formaldehyde, adverse effects on the central nervous system may include headaches, depression, mood changes, insomnia, irritability, attention deficit, and impairments in dexterity, memory, and equilibrium.

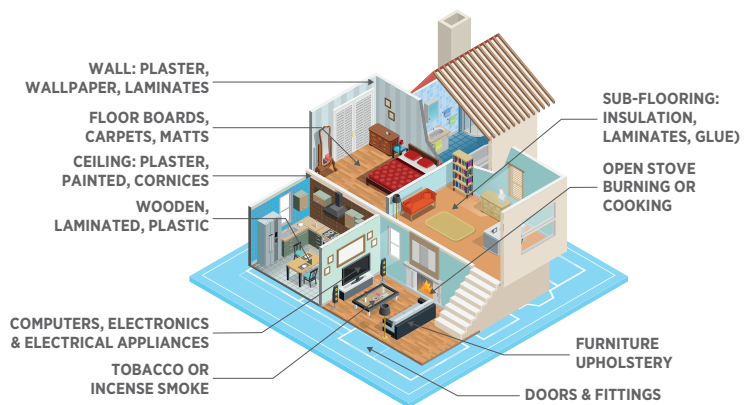
## COMMON SOURCES OF INDOOR AIR POLLUTANT EXPOSURE

### ALLERGIC REACTIONS

- People have suffered dermatitis after wearing clothing that contained high levels of formaldehyde.
- After exposure to formaldehyde in solution form or in resins used in clothing and textiles, people can become sensitive to formaldehyde and develop on-going allergies.
- People who have become sensitized to formaldehyde may suffer *asthma* or *contact dermatitis*.

### SKIN IRRITATIONS

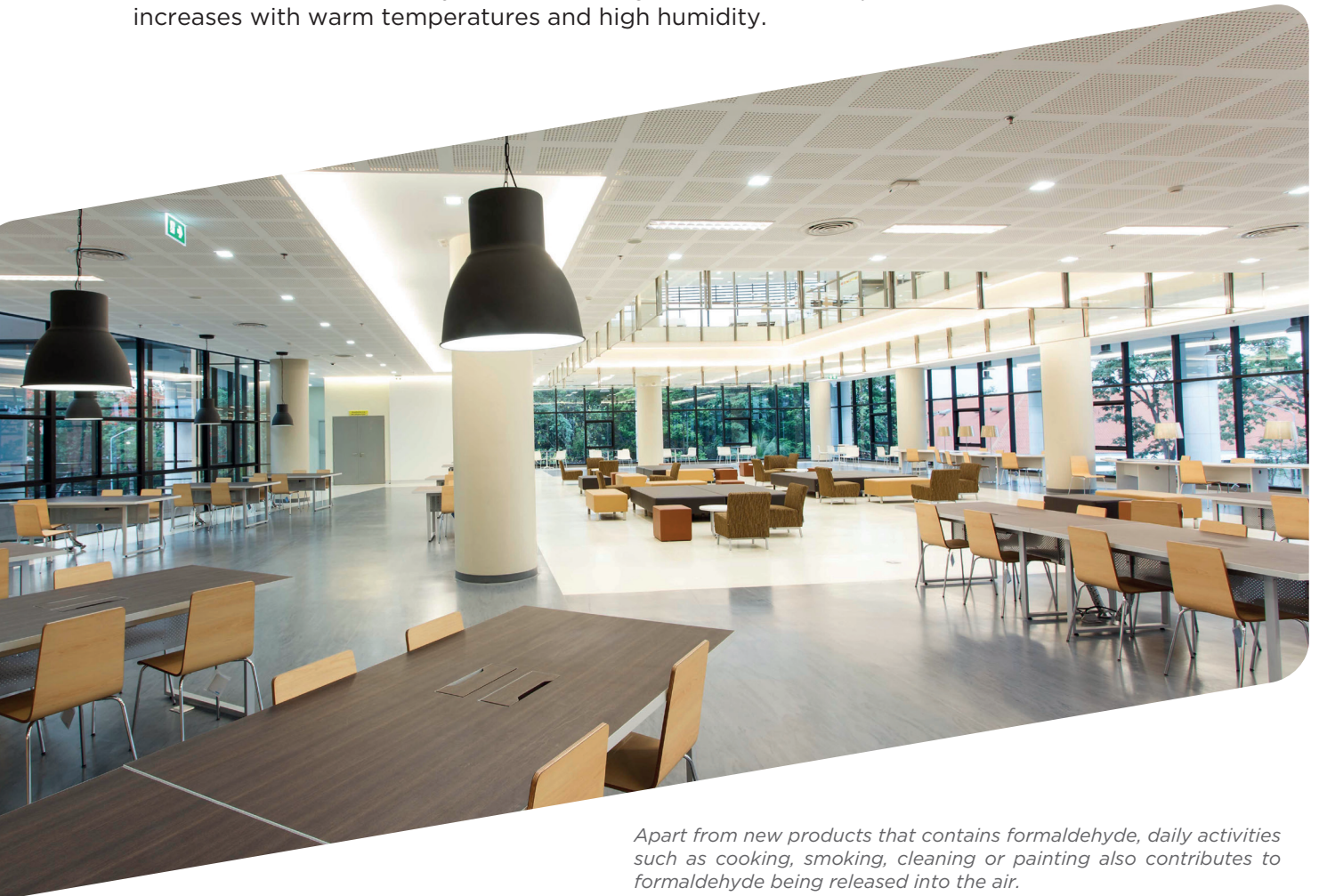
- Skin rashes can result from exposure to formaldehyde. Symptoms of temporary exposure to formaldehyde vapour will usually disappear quickly, with no lasting effects, once exposure stops.
- Breathing formaldehyde vapour can result in irritation of nerves in the eyes and nose.
- This may cause sore throat, teary eyes, blocked sinuses, runny nose, sneezing, stinging, or itching sensations.



# How is formaldehyde associated with manufactured housing?

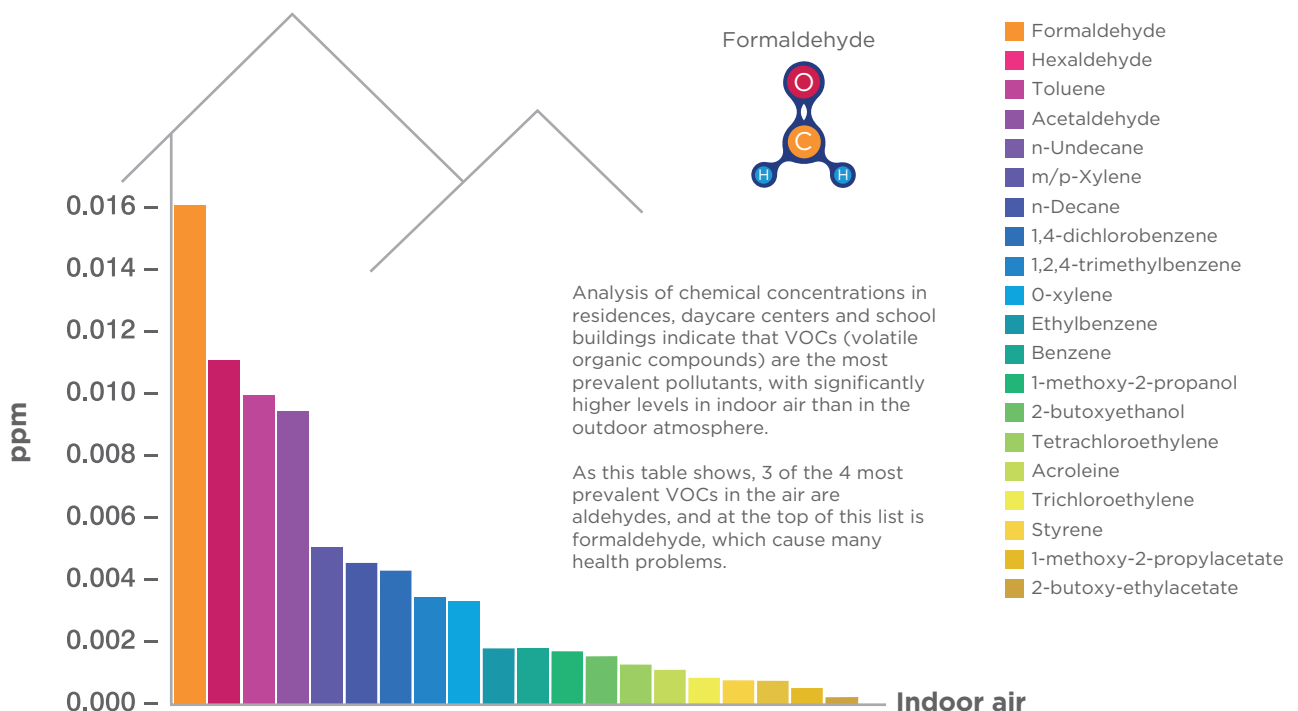
Products containing formaldehyde compounds can release formaldehyde gas into the air. These compounds are commonly found in everyday products made from materials such as plywood, particle board, and other pressed wood products.

The amount of formaldehyde released is greatest when the product is new and increases with warm temperatures and high humidity.



Apart from new products that contains formaldehyde, daily activities such as cooking, smoking, cleaning or painting also contributes to formaldehyde being released into the air.

## VOC CONCENTRATIONS IN THE AIR



Source: OQAI: Indoor air quality observatory on indoor air quality in French dwellings.

### Effectiveness of Activ'Air® on formaldehyde reduction

The EUROFINS laboratory in Denmark tested the air-purifying effect of Activ'Air® against consistently high emissions of pollutants into the surrounding ambient air and thereby the effectiveness of the construction material in reducing pollutant levels (performance).

The figure shows that Activ'Air® performs significantly better than conventional gypsum fibre boards with no Activ'Air® complex and even permanently reduces the concentration of pollutants emitted on an ongoing basis by more than 70%.

### How do I know if I have formaldehyde in my home?

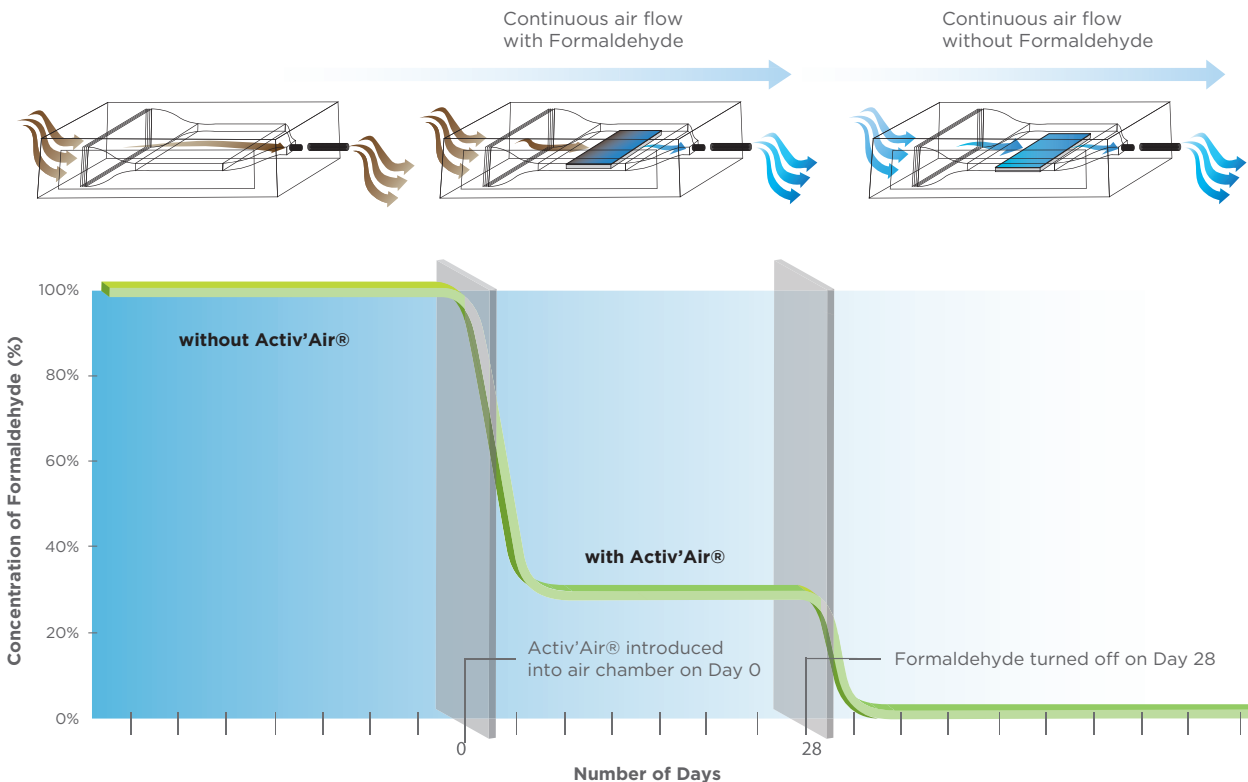
Formaldehyde can be detected through the sense of smell even at very low levels due to its strong odour.

### How can I reduce my exposure to formaldehyde?

Increase air flow in the affected area by opening windows and doors. This lowers the level of formaldehyde by increasing the amount of outdoor air. Usually, the levels decrease and odours are gone within a few days. Replace formaldehyde containing materials with non-toxic, formaldehyde-free, green building materials such as Activ'Air® boards.

### How long does the Activ'Air® purifying effect last?

Research and development departments have calculated in simulations that the material is effective for 50 years.





# Activ'Air®

*Captures formaldehyde-filled gases in the air and converts formaldehyde and other aldehydes into inert compounds. Activ'Air® then traps formaldehyde within the board for up to 50 years, based on tests and analysis.*

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