

## Evaluation of health effects of emissions from wood and wood-based construction materials

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In construction of buildings as well as for furniture and interiors, different materials are used. These materials may emit various chemical substances into the indoor environment [1]. The impact of emissions from such materials on the indoor environment and evaluations of health effects are gaining more and more attention. Indoor air pollution in buildings is widely recognized as an environmental risk to human health [2, 3]. Health based evaluation of indoor emissions from construction products is in Europe under harmonization. It is based on the LCI (Lowest concentrations of interest) approach [4].

Wood and wood-based materials are often used for construction and for interior materials in buildings. These materials are environmentally friendly and sustainable, provided the wood is processed and sourced appropriately. The knowledge on emissions from wood and wood-based materials is increasing and some health evaluation of emissions are available [5,6,7].

In our presentation, wood and wood-based materials used in construction are described. The importance of identification of volatile organic substances emitted from such construction materials into indoor air is emphasized and the background for evaluation of possible health effects is described. The most often emitted substances from wood and wood-based materials are presented. Health evaluation and available toxicological information on individual volatile organic substances emitted from wood and wood-based construction materials are explained.

### References:

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