



Henkel AG & Co. KGaA, 40191 Düsseldorf, Deutschland

To all customers

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## Assessment of LOCTITE PURBOND adhesives on the VOC content

Dear Sir or Madam,

In the formulations of our adhesives for load-bearing timber construction we exclusively use ingredients that comply with all legal requirements of the European Union (EU) and that have been extensively reviewed with regard to health compatibility. Thus, they always comply with the strict chemicals legislation of the EU.

LOCTITE PURBOND products are special wood adhesives for professional use. They belong to the category of reactive polyurethane adhesives, i.e. when used, a chemical reaction and a curing process take place.

From a toxicological point of view, the fully cured polymeric LOCTITE PURBOND adhesives are completely safe for human health and the environment. Once the LOCTITE PURBOND adhesives have fully cured, there is an inert product in the glued joint of the wood component that does not emit hazardous substances to the environment because the isocyanate compounds are bound in the plastic matrix and the products contain no further volatiles. At this point, we would like to emphasize that LOCTITE PURBOND adhesives are free of formaldehyde and solvents.

LOCTITE PURBOND adhesives are products with a VOC content of 0 % according to the Swiss definition (VOCV 814.018 VOC regulation CH) as stated in section 15 of the safety data sheet. At temperatures up to 100 °C we do not expect a degradation of the polymer chains and thus no emission of VOC substances.

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In summary, it is therefore important for us to underline that from a scientific point of view, the cured LOCTITE PURBOND adhesives pose no risk to human health and the environment in the final product.

Please do not hesitate to contact us in case of any questions.

Kind regards,  
**Henkel AG & Co. KGaA**

A handwritten signature in blue ink that reads "Ralf Gossen".

Dipl.-Ing. Ralf Gossen

A handwritten signature in blue ink that reads "M. Tönneßen".

Dr. Monika Tönneßen