

Entwicklungs- und Prueflabor Holztechnologie GmbH · Zellescher Weg 24 · 01217 Dresden · Germany

Rheinspan GmbH & Co. KG  
Frau B. Zwick  
Konrad-Nolte-Straße 40

**D-76726 Germersheim**

b.zwick@rheinspan.de

Entwicklungs- und Prueflabor  
Holztechnologie GmbH  
Zellescher Weg 24  
01217 Dresden · Germany

Phone: +49 351 4662 0  
Fax: +49 351 4662 211  
info@eph-dresden.de  
www.eph-dresden.de

50- FiM  
Dresden, Oct. 13<sup>th</sup>, 2020

## Test Report 2117020/2020/01/PCP

**Client:** Rheinspan GmbH & Co. KG  
Konrad-Nolte-Straße 40  
D-76726 Germersheim

**Order No.:** SPL-Q9-Q2-20 / 2117020 (old 259013)

**Date of order:** August 27<sup>th</sup>, 2020

**Order:** Testing of 2 samples on Lindane and PCP

**Contractor:** EPH – Laboratory Chemical Testing

**Engineer in charge:** Dr. Martin Fischer



Dipl. – Ing. M. Broege  
Head of laboratory  
Chemical testing

The test report contains 2 pages. Any duplication, even in part, requires written permission of EPH. These test results are exclusively related to the tested material.

## 1 Task and Sample description

On August 27<sup>th</sup>, 2020, the Entwicklungs- und Prüflabor Holztechnologie GmbH (EPH) received 2 samples that had to be tested on Lindane and PCP.

**tab. 1** sample overview; indications of size are given in [mm]

Variant	EPH-Code	amount of test pieces	length	width	thick-ness	charge	type	production date
1	K-1-Ü2-1...3	3	450	450	12	74262	Spanplatten P2 Maxx	20.08.2020
2	K-2-Ü2-1...3	3	450	450	25	74275	Spanplatten P2 Maxx	19.08.2020
3	K-PB-4-R3/1..3	3	450	450	18	36308	Spanplatte EcoMaxx	20.08.2020
4	K-PB-5-R3/1..3	3	450	450	38	74231	Spanplatte EcoMaxx	24.08.2020

## 2 Sample preparation and analysis

Stripes of 2 cm width were cut from each sample which were milled to a particle size of less than 1 mm and mixed for the respective sample. 2 g were weighed exactly, 40 mL toluene and 2 mL 1 M sulfuric acid were added, followed by a 30 min sonication and further shaking for 20 hours. A part of each solution was filtrated, derivatised with acetic anhydride and the PCP was measured with a gas chromatograph using ECD-detection (GC-ECD). Lindane was measured with GC-ECD in another part of each extract. External calibration was performed with calibration standards from commercial sources. Determination limits for PCP and Lindane (2 g of sample): 0.05 mg/kg

## 3 Results and evaluation<sup>1</sup>

**Tab. 2** PCP and Lindane in 5 samples, unit of measurement: [mg/kg]

Variant	Sample	PCP	Lindane
1	K-1-Ü2-1...3	0.1	-
2	K-2-Ü2-1...3	0.1	-
3	K-PB-4-R3/1..3	0.1	-
4	K-PB-5-R3/1..3	0.1	-

- not determinable

The samples did contain PCP at trace levels but no Lindane. According to the Chemical Prohibition Ordinance (ChemVerbotsV) § 1 (15) the limit value for PCP is 5 mg/kg. According to the IOS MAT 0010 the limit value for PCP is 3 mg/kg and the limit for Lindane is 1 mg/kg. The tested chipboards comply these limits. According to DIN EN 13986:2015-06, p. 53, the product must be indicated accordingly with PCP ≤ 5 ppm.

## 4 Miscellaneous

Remaining material will be stored as a control sample for 3 months in the EPH.



Dr. Martin Fischer  
Chemist in charge

<sup>1</sup> \* Statements on conformity assessment/classification were made on the basis of the measurement results obtained. Measurement uncertainties are not included in the assessment (ILAC G8 03/2009 " Guidelines on the Reporting of Compliance with Specification" Section 2.7).