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Test Report Order no. 2522111/1

Client: Dr.Schutz GmbH
Steinbrinksweg 30
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Order: Determination of the migration behaviour of heavy metals according to DIN EN 71-3 (2021-06) in 1 parquet oil

Contractor: Entwicklungs- und Prueflabor Holztechnologie GmbH
Laboratory Chemical Testing
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Engineer in charge: Dr. Christiane Swaboda



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The test report contains 3 pages. Any duplication of extracts requires the written permission of EPH. The test results refer exclusively to the material tested.

1 Task

Determination of the migration behaviour of heavy metals according to DIN EN 71-3 (2021-06) in 1 parquet oil

2 Evaluation*

Table 1: Evaluation overview

Label	Category	product	Result
DIN EN 71-3 (06/2021)	categorie III – Scraped materials	Premium hardwax oil + seidenmatt 01153000150	✓

✓ Requirement complied, ✗ Requirements not complied

3 Sample material

Table 2: Overview - sample material

Sample	Sample description	Nr.	Count	Sample receipt
P1	Premium hardwax oil + seidenmatt 01153000150	0153000150	1 L	16/03/2022

4 Performed Tests

The following methods were used:

DIN EN 71-3: 2021-06, Safety of toys – Part 3: Migration of certain elements; German version EN 71-3:2019+A1:2021

Table 3: Parameters investigated

Pos.	Testing standard	Test period
1	Determination of the migration behaviour of heavy metals according to DIN EN 71-3 (2021-06)	05/04/2022

The liquid was applied to a glass plate according to the manufacturer's instructions and, after curing, scraped off using a scalpel and weighed in directly.

The following elements were to be determined according to DIN EN 71-3:2021-06: Aluminium (Al), Antimony (Sb), Arsenic (As), Barium (Ba), Boron (B), Cadmium (Cd), Cobalt (Co), Chromium (Cr), Copper (Cu), Mercury (Hg), Manganese (Mn), Nickel (Ni), Lead (Pb), Selenium (Se), Tin (Sn), Strontium (Sr), Zinc (Zn)

Table 4: Overview of the limits of quantification of various elements

Element	Al	As	B	Ba	Cd	Co	Cr	Cu	Hg
LOQ [mg/kg]	3	1.5	3	0.1	0.05	0.05	0.02	0.1	0.05

LOQ Limit of quantification [mg/kg]

Table 5: Overview of the limits of quantification of various elements- continued

Element	Mn	Ni	Pb	Sb	Se	Sn	Sr	Zn
LOQ [mg/kg]	0.05	0.25	1.5	1.5	1.5	0.05	0.05	1.5

LOQ Limit of quantification [mg/kg]

*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).

5 Results

Table 6: Result overview

Element	LOQ	Limit value Category III	Measured value [mg/kg]
Sample	[mg/kg]	[mg/kg]	P1
Al	3	28130	< LOQ
As	1.5	47	< LOQ
B	3	15000	18
Ba	0.1	18750	< LOQ
Cd	0.05	17	< LOQ
Co	0.05	130	< LOQ
Chromium total			< LOQ
Chromium (III) ¹	0.05	460	< LOQ
Chromium(VI) ²	0.01	0.053	n.s.
Cu	0.1	7700	< LOQ
Hg	0.05	94	< LOQ
Mn	0.05	15000	< LOQ
Ni	0.25	930	< LOQ
Pb	1.5	23	< LOQ
Sb	1.5	560	< LOQ
Se	1.5	460	< LOQ
Sn	0.05	180000	< LOQ
Organozinn ³	1	12	n.s.
Sr	0.05	56000	< LOQ
Zn	1.5	46000	< LOQ

n.s. not specified

LOQ Limit of quantification

¹ The chromium (III) content is equal to the total chromium content minus the chromium (VI) content.

² Chromium (VI) was only determined for samples where the total chromium content exceeded the limit value for chromium (VI).

³ The organotin content was only determined for samples in which the tin content exceeded the limit value for organotin.



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Engineer in charge