EPH®
SUCCESS BY QUALITY

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

Oli Lacke GmbH
z.H. Dr. Eitner
Bahnhofstraße 22

09244 Lichtenau
Deutschland

E-Mail: entwicklung@oli-lacke.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

Dresden, Oc 12th, 2017
50-sw/ku

Test Report
Order no. 2517451/1

Client:	Oli Lacke GmbH Bahnhofstraße 22 09244 Lichtenau
Date of order:	September 22st, 2017
Order:	Determination of lead content in a lacquer sample according to IOS MAT 0066 and US Lead Paint, 16 CFR Part 1303 – Ban of lead containing paint and certain consumer products bearing lead-containing paint, by complete digestion
Contractor:	EPH – Laboratory chemical testing
Engineer in charge:	Dr. Christiane Swaboda

i.V.

Prof. Dr. habil. M. Beyer
Head of Laboratory Chemical Testing

1 Task

The Entwicklungs- and Prüflabor Holztechnologie GmbH (EPH) (Development and testing laboratory for wood technology) was assigned by OLI Lacke GmbH to determine the lead content of a liquid paint sample according to IOS-MAT-0066 and US Lead Paint, 16 CFR Part 1303 – Ban of lead containing paint and certain consumer products bearing lead-containing paint.

2 Sample material

2517451 - 1 OLI-AQUA PRO M 18.10 1K-Mehrschichtlack

Sample receipt in the EPH: September 25th, 2017

The sample material was used up.

3 Investigations carried out

Determination of lead content according to CPSC-CH-E 1003-09.1

The liquid paint sample was first applied thinly on a glass plate, and dried in a cabinet drier at 105 °C until the constant mass was reached. Then 200 mg of lacquer were taken from the surface and given into a microwave digestion vessel together with 5 ml concentrated nitric acid. The microwave digestion was executed according to the temperature regime prescribed in AA EPH-50-26 in compliance with 16 CFR, Part 1303 (US CPSC Standard operating procedure for determining lead in paint).
Then the solution was given into a 20 ml graduated flask and filled up to the mark. The lead content was determined by inductively-coupled plasma atomic emission spectrometry (ICP) in compliance with CPSC-CH-E1003-09.1.

The detection limit (DL) for an initial weight of 200 mg is 2 mg/kg.

4 Results

Content of Lead: < DL

5 Evaluation

The limiting value of 90 mg lead per kg in the dried surface material determined in IOS-MAT-0066 and US Lead Paint, 16 CFR Part 1303 – Ban of lead containing paint and certain consumer products bearing lead-containing paint – is surely kept by the sample at hand.

i. V.

Dr. rer. nat. Ch. Swaboda
Chemist in Charge