

## TEST CERTIFICATE

**Aluminium Beverage Cans (330 ml) with internal lacquer PPG2012-820/E,  
can end internal lacquer Valspar 32S02AD and can end sealant DAREX® WBC 4721  
- Article No. MP48750\_Combination No. 2 -**

### GENERAL STATEMENT\*

Your ref.  
May 27, 2021/  
Nadine Depre

Our ref./document  
2122-110\_G\_CKWC

2021-12-30  
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### INFORMATION ON SAMPLE AND CLIENT

Client details : Crown Packaging Manufacturing UK Limited  
Shared Service Centre UK  
Downsview Road  
Wantage Oxfordshire OX12 9FL  
United Kingdom

Requested analysis : Examination with respect to compliance with current requirements of the  
EU and the German food law.

Start of assessment : 2021-10-18

End of assessment : 2021-12-30

Sample description : Aluminium beverage cans, 330 ml sleek, closed,  
with internal lacquer PPG2012-820/E  
can end internal lacquer 32S02AD and  
can end sealant DAREX® WBC 4721

Application : Aluminium beverage cans in contact with aqueous, acidic and alcoholic  
beverages with or without fruit pulp, alcoholic strength not exceeding  
20 %

Identified as : MP48750\_Comb. 1

Lab sample code : 2122-110-00

Sample received : September 10, 2021

\*Confidential Section see Eurofins Institut Nehring Document 2122-110\_CKWC of 30 December 2021

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## 1. PROCEDURE AND RESULTS OF THE EXAMINATIONS

### 1.1 Test conditions

In order to simulate pasteurisation conditions and long-term storage we used the food simulants 3 % acetic acid, 10 % ethanol and 50 % ethanol at 0.5 h 90 °C + 10 d 40 °C for the overall migration test and for specific migration the test conditions 0.5 h 90 °C + 10 d 60 °C. Extraction tests were performed if there were no appropriate specific migration test method simulants available or in place.

### 1.2 Evaluation of the lacquer and can sealing compound compositions

The complete composition of the coatings and can sealing compound of the cans, which are intended to be used in contact with the foodstuff, were disclosed to the testing laboratory. For the applied internal protection coatings and can sealing compound we checked the respective following test reports of compliance:

Internal protection lacquer, body PPG2012-820/E	Test report Eurofins Institut Nehring GmbH, CKWC07-050 of May 14, 2020
Internal protection lacquer, for beverage can ends, Valspar 32S02AD	Test report Eurofins Institut Nehring GmbH, STWC44-019 of January 28, 2019
Can sealing compound, DAREX® WBC 4721	Test report Institut Nehring GmbH, STWC14-119 of November 22, 2019

These documents contain information about composition and test reports regarding relevant examinations (overall migration, specific migration resp. extraction test and sensory evaluation).

The composition has been checked with regard to possible restrictions for the use of the applied starting substances for food contact applications. The evaluation of the compositional data covered all starting substances for which the chemical identity was disclosed to the testing laboratory. For each substance it was checked whether the substance is evaluated for food contact applications according to the requirements of the European Food Safety Authority (EFSA).

For the evaluation the following regulations/requirements were considered:

- [1] Lebensmittel-, Bedarfsgegenstände- und Futtermittelgesetzbuch (Lebensmittel- und Futtermittelgesetzbuch – LFGB) of 3 June 2013, in the currently valid version
- [2] Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 on materials and articles intended to come into contact with food, in the currently valid version
- [3] Council of Europe, Consumer Health Protection Committee, Framework Resolution ResAP (2004) 1, Policy Statement concerning coatings intended to come into contact with foodstuffs, Version 3 - 12.02.2009

- [4] Council of Europe, Public Health Committee, Resolution ResAP (2004) 4, Policy Statement concerning rubber products intended to come into contact with foodstuffs, Version 1 - 10.06.2004
- [5] Council of Europe Resolution, AP (92) 2 on control of aids to polymerisation (technological coadjuvants) for plastic materials and articles intended to come into contact with foodstuffs, adopted by the Committee of Ministers on 19 October 1992
- [6] Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food, in the currently valid version
- [7] CEPE Code of Practice for Coated Articles where the Food Contact Layer is a Coating - Edition 4 - 2 February 2009

The internal protection lacquers contain 20 starting substances for which restrictions have to be regarded when the food cans are used in contact with foodstuff. All starting substances are permitted according to CEPE Code of Practice and Resolution AP (2004) 1 resp. AP (92) 2.

According to the results of our assessment all starting substances, with the exception of two, are evaluated according to EFSA requirements. According to our best knowledge these substances are not categorised as CMR substances. According to our best knowledge these substances are not categorised as CMR substances. According to current interpretation of the EU food law such substances may be used in food contact applications if their migration into foodstuffs does not exceed a concentration of 10 µg/kg (ref. CEPE Code of Practice Art. 4 resp. 5).

The sealing compound contains 12 starting substances for which restrictions have to be regarded when the compound is used in contact with foodstuffs. All starting substances, with the exception of two, are permitted according to CEPE Code of Practice and Resolution AP (2004) 4.

All starting substances, with exception of two, are evaluated according to EFSA requirements for food contact applications. According to our best knowledge these substances are not categorised as CMR substances. According to current interpretation of the EU food law such substances may be used in food contact applications if their migration into foodstuffs does not exceed a concentration of 10 µg/kg (ref. CEPE Code of Practice Art. 4 resp. 5, EuPIA Guideline). For one substance three mutagenic studies according to EFSA requirements exist (see ECHA European Chemical Agency). Therefore, according to current interpretation of the EU food law such substance may be used in food contact applications if its migration into foodstuffs does not exceed a concentration of 50 µg/kg (ref. CEPE Code of Practice).

## 2. FINAL ASSESSMENT / CONCLUSION

Based on a surface area to volume ratio of approx. 300 cm<sup>2</sup>/330 ml the following statement can be made:

The obtained test results for overall migration, specific migration and extraction tests meet the requirements of the relevant regulations which are mentioned under section 1.2.

The sensory evaluation showed no deviation which could give reason for doubts concerning creation of off-odours or off-flavours in food. Also there was no critical diffusion of colours and/or turbidity detectable.

The beverage cans, which are intended to come into contact with aqueous, acidic and alcoholic beverages with or without fruit pulp, alcoholic strength not exceeding 20 %, were evaluated as follows:

According to the results of our evaluation the **Beverage Cans, Article No. MP48750\_Combination No. 2** comply with regard to their composition and the migration test results with requirements of §§ 30 and 31 (1) of the Lebensmittel-, Bedarfsgegenstände- und Futtermittelgesetzbuch (LFGB) and Art 3 of Regulation (EC) No 1935/2004, each in the currently valid version.

Under conditions of appropriate application and under circumstances of destined and expected use the **Beverage Cans, Article No. MP48750\_Combination No. 2** do not add any particles and/or components to food which are harmful to human health.

Braunschweig, 2021-12-30



EUROFINS INSTITUT NEHRING GmbH  
Katja Cuber  
Analytical Service Manager

Unless otherwise specified in the underlying standard / regulation / specification, the extended measurement uncertainty (k = 2) shall be taken into account if the measured value is not within the range specified by the standard / regulation / specification.