



Subject : Contacto con agua potable según Real Decreto 140/2003 - Inglés
 Client KRYPTON CHEMICAL, S.L.
 Contract n° 2020/62058

KRYPTON CHEMICAL, S.L.
P.I.LES TAPIES, C/MARTI FRANQUES 12
43890 HOSPITALET DE L'INFANT
España

To the attention of: Xavier Cros Pagès

Test report n° 1166964-1

Polyurea Rayston: 40 10x5

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Customer information

Manufacturer --	Retailer contact --	Sample n°	771701
Batch n° --	Product reference --	Provided by	--
EAN13 --	Client sample n° --	Sampling point	--
DLUO --	Techn. file --	Picked up/received on	26/03/2020
DPAO --	Specif. date --	Start of analysis	26/03/2020
EMB --	Client purchase order no. --	End of analysis	09/04/2020

Signature

Romina Sanchez Martinez

Technical controller

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This report is electronically validated.

Test/Method	Unit	Result	Specification
Migration of materials in contact with potable water (polymer materials) - EN 12873 EN12873 (1T4MS) Subcontracted			
Colour - first migration		<1	< 15
Odor - first migration		0	< 3
Taste - first migration		0	< 3
Ammonium - first migration - CAS N°:14798-03-9		<0,16	< 0,5
Cyanides - first migration - CAS N°:57-12-5	µg/l	<10,0	< 50
Combined residual chlorine - first migration - CAS N°:7782-50-5	mg/l	<0,01	< 2,0
Residual free chlorine - first migration	mg/l	<0,10	< 1,0
Conductivity - first migration	µS/cm	<78	< 2500
Oxidability - first migration	mg/l	<0,6	< 5
Sodium - first migration - CAS N°:7440-23-5	mg/l	11	< 200
Chlorides - first migration - CAS N°:16887-00-6	mg/l	17	< 250
Fluorides - first migration - CAS N°:7782-41-4	mg/l	<0,1	< 1,5
Nitrates - first migration - CAS N°:84145-82-4	mg/l	3	< 50
Sulfates - first migration - CAS N°:7757-82-6	mg/l	<1,0	< 250
Aluminium - first migration - CAS N°:7429-90-5	µg/l	<100	< 200
Antimoine - first migration - CAS N°:7440-36-0	µg/l	<6,0	< 5
Arsenic - first migration - CAS N°:7440-38-2	µg/l	<1,0	< 10
Boron - first migration - CAS N°:7440-42-8	mg/l	<0,26	< 1,0
Cadmium - first migration - CAS N°:7440-43-9	µg/l	<2,0	< 5
Copper - first migration - CAS N°:7440-50-8	mg/l	<0,06	< 2
Chrome - first migration - CAS N°:7440-47-3	µg/l	<10	< 50
Iron - first migration - CAS N°:7439-89-6	µg/l	<100	< 200
Manganese - first migration - CAS N°:7439-96-5	µg/l	<10	< 50
Selenium - first migration - CAS N°:7782-49-2	µg/l	<1,0	< 10
Benzene - first migration - CAS N°:71-43-2	µg/l	<0,5	< 1
1,2 Dichloroethan - first migration - CAS N°:107-06-2	µg/l	<1,0	< 3
Sum Trichloroethane + Tetrachloroethane - first migration	µg/l	<1,0	< 10
Benzo (a) pyrene - first migration - CAS N°:50-32-8	µg/l	<0,01	< 0,01
Sum Polycyclic Aromatic Hydrocarbon - first migration	µg/l	<0,1	< 0,1
Triahalomethanes - first migration - CAS N°:-	µg/l	<5,0	< 100
Aldrine - first migration - CAS N°:309-00-2	µg/l	<0,01	< 0,03
Dieldrin - first migration - CAS N°:60-57-1	µg/l	<0,01	< 0,03
Heptachlor - first migration - CAS N°:76-44-8	µg/l	<0,01	< 0,03
Heptachlor epoxide - first migration - CAS N°:1024-57-3	µg/l	<0,01	< 0,03
Individual pesticide - first migration	µg/l	<0,01	< 0,01
Total pesticides - first migration	µg/l	<0,5	< 0,5
Acrylamide - first migration	µg/l	<0,1	< 0,1
Epichlorohydrin - first migration - CAS N°:106-89-8	µg/l	<0,10	< 0,1
Turbidity - First migration		2,73	< 3
Total organic coal - First migration	mg/l	4,18	< 7
ph - First migration	pH	6,0	4,5 < < 9,5
Nitrates (NiO2) - First migration	mg/l	<0,02	< 0,5
Mercury (Hg) - First migration	µg/l	<0,2	< 1
Nickel (Ni) - First migration	µg/l	<5,0	< 20
Lead (Pb) - First migration	µg/l	<10,0	< 10

Migration for polymeric materials:

Test/Method	Unit	Result	Specification
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-Extraction means: Chlorinated water containing 1 ppm chlorine.

-Migration Temperature: 40°C.

-Contact time: The sample is washed several times, as instructed in Standard EN-12873.

Next, three 72-hour cycles are performed, thereby obtaining three testing samples.

Parameters are analysed during the initial 72-hour cycle; only the parameters that are beyond the limits of RD 140/2003 in the first cycle are repeated in the second and third cycle.

-Volume of the sample: 1 litre for each of the 72-hour cycles.

-Contact surface: 500 cm².

-Surface/volume ratio: 500 cm²/l.

The value of TOC is considered "no change" in RD 140.

According SINAC Document:

"Quality of drinking water in Spain. Year 2009"

Page 266: 35. Total organic carbon (TOC)

"The parametric value" no change ": Changes are considered to be anomalous when the quantized values exceed twice the average value of at least the last three years. In March 2005, consensus was reached with the CCAA a reference value of 7,0 mg/L. "

CONCLUSION

The material is according with the requirements of the Royal Decree 140/2003 and Directive 98/83/CE, for the parameters analyzed.

No chemical reaction product observed at 20 ppm of chlorine, the product complies respect this parameter with the requirements of Royal Decree 140/2003.

The results and observations of this test report only concern the sample provided to the laboratory and tested. Except specific case, the sample will be kept during the duration mentioned in the contract or by default in our terms and conditions from the date indicated on the present document. The sample and the information regarding the sample have been provided by the client. All information related to the sample are under liability of the client and have not been checked by the Eurofins company. This test report is not aimed to give an exhaustive conformity to regulations. It only refers to qualitative and quantitative criteria which allow declaring the compliance to specifications of the reference file when provided by the customer. The result (excluding microbiological analyses) is declared not compliant when, in spite of taking into account the measurement uncertainty at a 95 % trust level (if available), the value found cannot be included in the specification interval and/or be inferior to the regulatory limit. The copy of this report is only authorized by unabridged edition. Any publication of this report must be authorised by Eurofins.