

HELLENIC REPUBLIC
MINISTRY OF FINANCE
GENERAL SECRETARIAT OF TAX AND CUSTOMS
AFFAIRS
GENERAL DIVISION OF THE
GENERAL STATE CHEMICAL LABORATORY
4th CHEMICAL SERVICE OF ATHENS
4th DEPARTMENT

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Athens, 10.10.2012

Ref. No. 30/015/2540/28.9.2012

Sample No. 015/937/2012

TO: NEOTEX S.A.

SAMPLE EXAMINATION REPORT

Forwarding Organisation: NEOTEX S.A.
Incoming Request date: 28.9.2012
Sampling date: 28.9.2012
Sampling Organisation: NEOTEX S.A. ^{(1), (2)}
Type of Material: Epoxy resin coating material
Sample received on: 28.9.2012
Examination Date: From 17.9.2012 to 10.10.2012

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ΜΕΤΑΦΡΑΣΤΙΚΗ ΥΠΗΡΕΣΙΑ

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RESULTS OF SAMPLE EXAMINATION

Parameter examined	Examination Method	Spec.No.	Result	Uncertainty	Legal Limit	Reference/Recommended Limit	Analyst
Coating material identification	Coating material identification using spectroscopy (FT-IR spectroscopy)	1	Epoxy resin of the bisphenol-A-epichlorohydrin type				Timoklia Togalidou (4 th Chemical Service of Athens)
Assessment of the Specific Migration of Additives Contained	Semi-quantitative assessment of the specific migration of chemical compounds from plastics using GC-FID (EM4_GCFID)	1	$\lambda > 3$ (for benzyl alcohol). Specific migration is probably high				Timoklia Togalidou (4 th Chemical Service of Athens)
Analysis of Additives Contained- Assessment of Specific Migration	Analysis of contained additives-semiquantitative analysis of the specific migration of chemical compounds from plastics using GC/MSD (EM4_GCMSD)	1	Benzyl alcohol is identified				Timoklia Togalidou (4 th Chemical Service of Athens)
Overall migration in isooctane (mg/dm ²)	Determination of the overall migration from plastics in isooctane, weighed, with a standard or equivalent cell (OM7)	1	<1 (Conditions: 2 days at 20°C) (1)		10		Timoklia Togalidou (4 th Chemical Service of Athens)

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Overall migration in 3% acetic acid (mg/dm ²)	Determination of the overall migration from plastics in aqueous food simulants, weighted, with a standard or equivalent cell (OM1)	1	<1 (Conditions: 10 days at 40° C) ⁽³⁾	10	Timoklia Togalidou (4 th Chemical Service of Athens)
Overall migration in 96% ethanol (mg/dm ²)	Determination of the overall migration from plastics in 96% ethanol, weighted, with a standard or equivalent cell (OM7)	1	<1 (Conditions: 2 days at 20°C) ⁽³⁾	10	Timoklia Togalidou (4 th Chemical Service of Athens)
Bisphenol A (mg/kg)	Specific migration of Bisphenol A in 3% acetic acid, with HPLC (EM11)	1	0.015 ⁽³⁾ (Conditions: 10 days at 40°C) ⁽³⁾	0.6	Timoklia Togalidou (4 th Chemical Service of Athens)
Bisphenol A (mg/kg)	Specific migration of Bisphenol A in oil, with HPLC (EM11)	1	< reference limit = 0.01 (Conditions: 10 days at 40°C) ⁽³⁾	0.6	Timoklia Togalidou (4 th Chemical Service of Athens)
Benzyl alcohol (mg/kg)	Specific migration of Benzyl alcohol in 3% acetic acid with HPLC	1	56.9 ⁽³⁾ (Conditions: 10 days at 40°C) ⁽³⁾	60	Timoklia Togalidou (4 th Chemical Service of Athens)
Benzyl alcohol (mg/kg)	Specific migration of Benzyl alcohol in oil, with HPLC	1	4.1 ⁽³⁾ (Conditions: 10 days at 40°C) ⁽³⁾	60	Timoklia Togalidou (4 th Chemical Service of Athens)

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OPINION: The sample transmitted "specimen of epoxy paint – NEOPOX ALIMENTARY" is normal and meets the applicable conditions of Regulations (EC) No. 1935/2004, No. 1895/2005, and article 28 of the Code on Foods and Beverages, for the properties tested, with respect to its fitness for contact with food, and for its intended use⁽⁶⁾.

Notes:

1. The sample was taken and submitted by the interested party. The remaining sample shall be destroyed by the competent laboratory if not requested by the interested party within one month.
2. The specimens had been immersed in water over a period of 24 hours by the interested party.
3. Migration tests are performed by bringing 1 dm² of the object in contact with 100ml of simulant.
4. The result was obtained by using the most strict approach with regard to the actual ratio of contact area to food quantity, for a 10000 lt tank. This ratio was calculated at 2.5dm²/kg of food, for very low loading of the tank, in the order of 2%. With increasing tank filling percentage (or tank capacity), the ratio is significantly decreased and therefore specific migration decreases as well.

When employing the conventional assumption with respect to the ratio of contact area to food quantity (6dm²/kg), the specific migration (S.M.) results would have been: S.M. of Bisphenol-A in 3% acetic acid: 0.036mg/kg. S.M. of benzyl alcohol in 3% acetic acid: 135.5mg/kg. S.M. of benzyl alcohol in oil: 9.8mg/kg.

5. The reference limit of the method for bisphenol-A in 3% acetic acid is 0.01mg/kg converted to 0.0025 mg/kg for test conditions as referred to in Note 3, and an area to volume ratio of

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2.5 dm³/kg (Note 4). Accordingly, the reference limit of the method for bisphenol-A in vegetable oil is 0.01 mg/kg.

6. The intended use is for food storage tanks having a capacity greater than 10000 liters, for long-term storage at ambient temperature.

The Chemical Service Head
Tsipi Despina (Signed)

(Seal of the 4th Chemical Service of Athens)

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True translation of the attached certified copy in Greek,
Athens, 2.5.2013 M. Kontopidou – Translator



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