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Food Contact Plastics
Certificate of Conformity with the Test Requirements of USA FDA
Code of Federal Regulations (CFR21) Section 177.1630 (Polyethylene
Phthalate Polymers).

Certificate no: 2009/3917

Product Name: 'Bottles made from OCTAL PET RESIN produced by Octal Petrochemicals FZC'

Date of Issue: 6 March 2009

Pira Reference No: 08A12J3688

Manufacturer/

Supplier: Octal Petrochemicals FZC
Address: PC 217, PO Box 383
Awqad
Sultanate Of Oman

Samples of the above have been found to comply with the following requirements, as specified sections f(1) and g(1) of the USA FDA Code of Federal Regulations CFR21 Section 177.1630 (Polyethylene Phthalate Polymers).

- The chloroform soluble portion of a distilled water extract of the food contact surface of the sample shall not exceed 0.5 mg per square inch when tested using extraction conditions of 2 hours at 250°F.
- The chloroform soluble portion of an n-heptane extract of the food contact surface of the sample shall not exceed 0.5 mg per square inch when tested using extraction conditions of 2 hours at 150°F.
- The chloroform soluble portion of a 50% ethanol extract of the food contact surface of the sample shall not exceed 0.5 mg per square inch when tested using extraction conditions of 24 hours at 120°F.

Additionally, Pira have carried out an audit of the formulation of the product and we conclude that all additives used in the formulation of the resin are approved for use under USA FDA Code of Federal Regulations CFR21 sections 177.1630 and/or other applicable regulations contained in Parts 170 to 189 of these regulations.

Accordingly, the above resin is in compliance with the test requirements specified in the USA FDA Code of Federal Regulations CFR21 Section 177.1630 f(1) and g(1), and is suitable for use in packaging, transporting or holding foods, including alcoholic beverages at temperatures not to exceed 250°F.

Certified by: Allison Chambers
Senior Analytical Chemist
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Food Contact Plastics
Certificate of Conformity with the Requirements of EC Directive
2002/72/EC as amended by EC Directives 2004/1/EC,
2004/19/EC, 2005/79/EC, 2007/19/EC and 2008/39/EC
Certificate no: 2009/3913

Product Name: 'Bottles made from OCTAL PET RESIN produced by Octal Petrochemicals FZC'
Date of Issue: 6 March 2009
Pira Reference No: 08A12J3688
Manufacturer/ Supplier: Octal Petrochemicals FZC
Address: PC 217, PO Box 383
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The above product has been tested for overall migration with the simulants and test conditions listed below. The food simulants and test conditions are those defined in EC Directive 97/48/EC.

Food Simulants	Test Conditions	
	Duration	Temp/°C
Simulants B, C and D	10 days	40°C

The overall migration results obtained were found to be below the overall migration limits defined in EC Directive 2002/72/EC as amended.

Additionally, the above product contains 3 monomers and two additives which are listed with specific migration limits in section A of EC Directive 2002/72/EC as amended (terephthalic acid, isophthalic acid, ethylene glycol, an antimony based additive and a cobalt based additive). Tests showed that the limits specified for these substances in EC Directive 2002/72/EC, as amended, are not exceeded under the above test conditions.

Additionally, Pira have carried out an audit of the formulation of the above resin. All monomers and additives contained in the formulation are approved for use in food contact plastics and are listed without restrictions in EC Directive 2002/72/EC as amended. Furthermore, no multiple function additives are used in the manufacture of the above product (NB Multiple function additives are defined as those which are also approved for direct addition into foods and which would therefore be subject to separate food regulations).

The above product therefore fully meets the overall migration requirements of EC Directive 2002/72/EC as amended as amended by EC Directives 2004/1/EC, 2004/19/EC, 2005/79/EC, 2007/19/EC and 2008/39/EC for use with all classes of foodstuff for;

- (a) any period at temperatures up to 40°C, and/or
 - (b) periods up to 2 hours at temperatures up to 70°C, and/or
 - (c) periods up to 15 minutes at temperatures up to 100°C,
- as specified in EC Directive 97/48/EC.



The product therefore also meets the safety requirements laid out in Article III of EC Regulation 1935(2004) under the above conditions of use.

Users are reminded that EC Directive 2002/72/EC relates to finished articles/materials manufactured from plastics. Users of the above resin are therefore responsible for ensuring that their finished products comply with the overall migration limit, by conducting appropriate tests on their finished products. Users should pay particular attention to the food types and temperature conditions under which the finished product will be used and conduct appropriate migration tests using conditions selected with the guidance of EC Directive 97/48/EC. Furthermore, users should also ensure that their finished products do not bring about an unacceptable change in the taste or odour of food products, as also required by article III of EC Regulation 1935(2004).

A handwritten signature in black ink, appearing to read "Allison Chambers".

Certified by: **Allison Chambers**
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**Packaging and Packaging Waste (Essential Requirements)
Certificate of Conformity with the Heavy Metal Requirements of
EC Directive 94/62/EC, UK Statutory Instrument 1165(1998) and
the CONEG Regulations (USA/Canada)**

Certificate no: 2009/3915

Product Name: *'Bottles made from OCTAL PET RESIN produced by Octal petrochemicals FZC'*

Date of Issue: 6 March 2009

Pira Reference No: 08A12J3688

Manufacturer/

Supplier: Octal Petrochemicals FZC
Address: PC 217, PO Box 383
Awqad
Sultanate Of Oman

The above product is in compliance with ultimate limit (in force from 30 June 2001) specified in EC Directive 94/62/EC *'The Packaging and Packaging Waste Directive'* for the combined levels of lead, cadmium, mercury and hexavalent chromium. The product therefore also complies with the heavy metal requirements of UK Statutory Instrument 1165(1998) which enforces this Directive in the UK.

The above product is also in compliance with the limit for heavy metals contained in the CONEG regulations which are in force in a number of the states in the USA and Canada.

The limit specified in EC Directive 94/62/EC for the combined total of lead, cadmium, mercury and hexavalent chromium is as follows;

- 100 mg/kg from 30 June 2001

The limit specified in the CONEG regulations in the USA for the combined total of these elements is 100 mg per kg of packaging material.

**Certified by: Allison Chambers
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