

**AFCONA ADDITIVES SDN BHD**  
**10, JALAN ANGGERIK MOKARA 31/63, KOTA KEMUNING**  
**40460 SHAH ALAM, SELANGOR DARUL EHSAN**

**The following merchandise was (were) submitted and identified by the client as:**

Sample Description : Mixture of AFCONA 6220, 6225, 6230, 6700, 6701, 6745, 6755, 6782, 8605 and 8530  
Sample Receiving Date : 13/06/2011  
Testing Period : 13/06/2011 to 17/06/2011

---

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.  
Test Method : Please refer to next page(s).  
Test Results : Please refer to next page(s).  
Analysts : Ng Mei Kheng & Yee Sook Wai

SGS LABORATORY SERVICES (M) SDN. BHD.



CHONG KIEN LEN  
B.Sc.(HONS) AMIC  
LAB MANAGER

This document is issued by the Company subject to its General Conditions of Service ([www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm)) and Terms and Conditions for Electronic Documents ([www.sgs.com/terms\\_e-document.htm](http://www.sgs.com/terms_e-document.htm)). Attention is drawn to the limitations of liability, indemnification and jurisdictional issues established therein. Even if printed this electronic document is to be treated as an original within the meaning of UCP 600 article 20b. The authenticity of this document may be verified at [www.sgsonsite.com/authentication](http://www.sgsonsite.com/authentication). Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. **Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for three months only.**

# Test Report

No. LPCI/14056/11  
CTS Ref. CTS/11/2306/Afcona

Date : 17/06/2011

Page: 2 of 5

Test results:

Test Part Description :

Sample Description : As per page 1 & 4

**RoHS Directive 2002/95/EC**

| Test Item(s):              | Unit  | Test Method   | Results | MDL |
|----------------------------|-------|---|---------|-----|
| Cadmium(Cd)                | mg/kg | With reference to EPA Method 3051A, and performed by ICP-OES                          | N.D.    | 2   |
| Lead (Pb)                  | mg/kg | With reference to EPA Method 3051A, and performed by ICP-OES                          | N.D.    | 2   |
| Mercury (Hg)               | mg/kg | With reference to EPA Method 3051A, and performed by ICP-OES                          | N.D.    | 2   |
| Hexavalent Chromium (CrVI) | mg/kg | With reference to EPA Method 3060A & 7196A, and performed by UV-VIS Spectrophotometry | N.D.    | 2   |
| <b>Sum of PBBs</b>         | mg/kg | With reference to EPA Method 3540C/3550C, and performed by GC-MS                      | N.D.    | -   |
| Monobromobiphenyl          | mg/kg | With reference to EPA Method 3540C/3550C, and performed by GC-MS                      | N.D.    | 5   |
| Dibromobiphenyl            | mg/kg | With reference to EPA Method 3540C/3550C, and performed by GC-MS                      | N.D.    | 5   |
| Tribromobiphenyl           | mg/kg | With reference to EPA Method 3540C/3550C, and performed by GC-MS                      | N.D.    | 5   |
| Tetrabromobiphenyl         | mg/kg | With reference to EPA Method 3540C/3550C, and performed by GC-MS                      | N.D.    | 5   |
| Hexabromobiphenyl          | mg/kg | With reference to EPA Method 3540C/3550C, and performed by GC-MS                      | N.D.    | 5   |
| Pentabromobiphenyl         | mg/kg | With reference to EPA Method 3540C/3550C, and performed by GC-MS                      | N.D.    | 5   |
| Heptabromobiphenyl         | mg/kg | With reference to EPA Method 3540C/3550C, and performed by GC-MS                      | N.D.    | 5   |
| Octabromobiphenyl          | mg/kg | With reference to EPA Method 3540C/3550C, and performed by GC-MS                      | N.D.    | 5   |
| Nonabromobiphenyl          | mg/kg | With reference to EPA Method 3540C/3550C, and performed by GC-MS                      | N.D.    | 5   |
| Decabromobiphenyl          | mg/kg | With reference to EPA Method 3540C/3550C, and performed by GC-MS                      | N.D.    | 5   |

SGS LABORATORY SERVICES (M) SDN. BHD.



CHONG KIEN LEN  
B.Sc.(HONS) AMIC  
LAB MANAGER

This document is issued by the Company subject to its General Conditions of Service ([www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm)) and Terms and Conditions for Electronic Documents ([www.sgs.com/terms\\_e-document.htm](http://www.sgs.com/terms_e-document.htm)). Attention is drawn to the limitations of liability, indemnification and jurisdictional issues established therein. Even if printed this electronic document is to be treated as an original within the meaning of UCP 600 article 20b. The authenticity of this document may be verified at [www.sgs.com/authentication](http://www.sgs.com/authentication). Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. **Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for three months only.**

| Test Item(s):              | Unit  | Test Method  | Results | MDL |
|----------------------------|-------|--|---------|-----|
| <b>Sum of PBDEs</b>        | mg/kg | With reference to EPA Method 3540C/3550C, and performed by GC-MS | N.D.    | -   |
| Monobromodiphenyl ether    | mg/kg | With reference to EPA Method 3540C/3550C, and performed by GC-MS | N.D.    | 5   |
| Dibromodiphenyl ether      | mg/kg | With reference to EPA Method 3540C/3550C, and performed by GC-MS | N.D.    | 5   |
| Tribromodiphenyl ether     | mg/kg | With reference to EPA Method 3540C/3550C, and performed by GC-MS | N.D.    | 5   |
| Tetrabromodiphenyl ether   | mg/kg | With reference to EPA Method 3540C/3550C, and performed by GC-MS | N.D.    | 5   |
| Pentabromodiphenyl ether   | mg/kg | With reference to EPA Method 3540C/3550C, and performed by GC-MS | N.D.    | 5   |
| Hexabromodiphenyl ether    | mg/kg | With reference to EPA Method 3540C/3550C, and performed by GC-MS | N.D.    | 5   |
| Heptabromodiphenyl ether   | mg/kg | With reference to EPA Method 3540C/3550C, and performed by GC-MS | N.D.    | 5   |
| Octabromodiphenyl ether    | mg/kg | With reference to EPA Method 3540C/3550C, and performed by GC-MS | N.D.    | 5   |
| Nonabromodiphenyl ether    | mg/kg | With reference to EPA Method 3540C/3550C, and performed by GC-MS | N.D.    | 5   |
| Decabromodiphenyl ether ## | mg/kg | With reference to EPA Method 3540C/3550C, and performed by GC-MS | N.D.    | 5   |

- Note :
- (a) mg/kg = ppm ; (0.1wt% = 1000ppm)
  - (b) N.D. = Not Detected
  - (c) MDL = Method Detection Limit
  - (d) ## = The exemption of DecaBDE in polymeric application according 2005/717/EC was overruled by the European Court of Justice by its decision of 01.04.2008. Subsequently DecaBDE is included in the sum of PBDE after 01.07.2008
  - (e) - = Not regulated
  - (f) Testing based on original basis
  - (g) The below information of raw materials or ingredients was provided by the client. SGS has no liability in verifying the authenticity of such information. The testing was carried out using the sample submitted as shown in the photo in page 4.

SGS LABORATORY SERVICES (M) SDN. BHD.



CHONG KIEN LEN  
B.Sc.(HONS) AMIC  
LAB MANAGER

This document is issued by the Company subject to its General Conditions of Service ([www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm)) and Terms and Conditions for Electronic Documents ([www.sgs.com/terms\\_e-document.htm](http://www.sgs.com/terms_e-document.htm)). Attention is drawn to the limitations of liability, indemnification and jurisdictional issues established therein. Even if printed this electronic document is to be treated as an original within the meaning of UCP 600 article 20b. The authenticity of this document may be verified at [www.sgs.com/site/authentication](http://www.sgs.com/site/authentication). Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for three months only.

## Test Report

No. LPCI/14056/11  
CTS Ref. CTS/11/2306/Afcona

Date : 17/06/2011

Page: 4 of 5

### Test Part Description :

Sample Description : Mixture of AFCONA 6220, 6225, 6230, 6700, 6701, 6745, 6755, 6782, 8605 and 8530

**AFCONA ADDITIVES SDN BHD**  
**LPCI/14056/11**

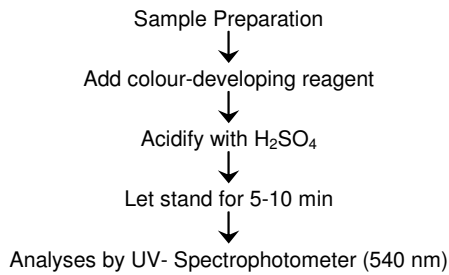


SGS LABORATORY SERVICES (M) SDN. BHD.

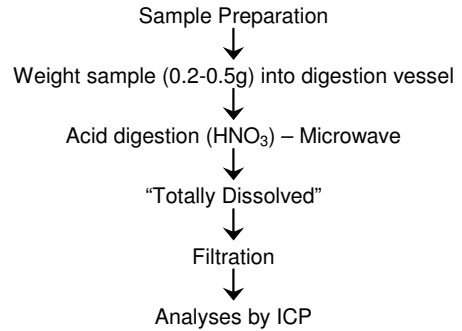
CHONG KIEN LEN  
B.Sc.(HONS) AMIC  
LAB MANAGER

This document is issued by the Company subject to its General Conditions of Service ([www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm)) and Terms and Conditions for Electronic Documents ([www.sgs.com/terms\\_e-document.htm](http://www.sgs.com/terms_e-document.htm)). Attention is drawn to the limitations of liability, indemnification and jurisdictional issues established therein. Even if printed this electronic document is to be treated as an original within the meaning of UCP 600 article 20b. The authenticity of this document may be verified at [www.sgsonsite.com/authentication](http://www.sgsonsite.com/authentication). Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. **Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for three months only.**

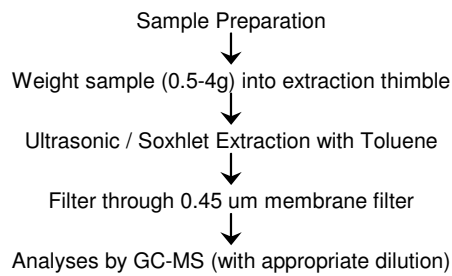
**1. DETERMINATION OF HEXAVALENT CHROMIUM BY METHOD US EPA 3060A/7196A**



**2. MICROWAVE ASSISTED ACID DIGESTION OF ORGANICALLY BASED METRICES (US EPA 3051A)**

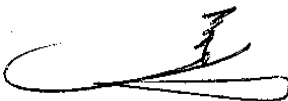


**3. DETERMINATION OF PBB/PBDE WITH GC-MS**



\*\*\*\* End of Report \*\*\*\*

SGS LABORATORY SERVICES (M) SDN. BHD.



CHONG KIEN LEN  
 B.Sc.(HONS) AMIC  
 LAB MANAGER

This document is issued by the Company subject to its General Conditions of Service ([www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm)) and Terms and Conditions for Electronic Documents ([www.sgs.com/terms\\_e-document.htm](http://www.sgs.com/terms_e-document.htm)). Attention is drawn to the limitations of liability, indemnification and jurisdictional issues established therein. Even if printed this electronic document is to be treated as an original within the meaning of UCP 600 article 20b. The authenticity of this document may be verified at [www.sgs.com/authentication](http://www.sgs.com/authentication). Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. **Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for three months only.**