

No. LPCI/11468-2/09 Date : 14/07/2009 CTS Ref. CTS/09/2714/Touch Chem-Afcona

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TOUCH CHEM (M) SDN. BHD. / AFCONA ADDITIVES SDN. BHD. NO.22, JALAN ANGGERIK MOKARA 31/64, KOTA KEMUNING, 40460 SHAH ALAM, SELANGOR DARUL EHSAN.

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

Sample Description Sample Receiving Date Testing Period	:	Mixture of Touch Otal 2002, Touch Otal 2003, Touch Otal 2006, Touch Otal 2008, Touch Otal 2009, Touch Anset 3000, Touch Anset 3010 and Touch Anset 3300. 08/07/2009 08/07/2009 to 10/07/2009
Test Results	:	Please refer to next page.
Analyst	:	Yee Sook Wai

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Test results by chemical method:

Test Item (s):	Unit	Method	MDL	Result
Polycyclic Aromatic Hydrocarbons (PAHs)				
Naphtalene (CAS No.: 000091-20-3)	mg/kg	With reference to ZLS standard ZEK 01.1-08. Analysis was performed by GC/MS.		N.D.
Acenaphthylene (CAS No.: 00208-96-8)	mg/kg	With reference to ZLS standard ZEK 01.1-08. Analysis was performed by GC/MS.		N.D.
Acenaphthene (CAS No.: 000083-32-9)	mg/kg	With reference to ZLS standard ZEK 01.1-08. Analysis was performed by GC/MS.	0.2	N.D.
Fluorene (CAS No.: 000086-73-7)	mg/kg	With reference to ZLS standard ZEK 01.1-08. Analysis was performed by GC/MS.	0.2	N.D.
Phenanthrene (CAS No.: 000085-01-8)	mg/kg	With reference to ZLS standard ZEK 01.1-08. Analysis was performed by GC/MS.	0.2	N.D.
Anthracene (CAS No.: 000120-12-7)	mg/kg	With reference to ZLS standard ZEK 01.1-08. Analysis was performed by GC/MS.	0.2	N.D.
Fluoranthene (CAS No.: 000206-44-0)	mg/kg	With reference to ZLS standard ZEK 01.1-08. Analysis was performed by GC/MS.	0.2	N.D.
Pyrene (CAS No.: 000129-00-0)	mg/kg	With reference to ZLS standard ZEK 01.1-08. Analysis was performed by GC/MS.	0.2	N.D.
Benzo[a]anthracene (CAS No.: 000056-55-3)	mg/kg	With reference to ZLS standard ZEK 01.1-08. Analysis was performed by GC/MS.	0.2	N.D.
Chrysene (CAS No.: 000218-01-9)	mg/kg	With reference to ZLS standard ZEK 01.1-08. Analysis was performed by GC/MS.	0.2	N.D.

Test Part Description :

Sample Description

Mixture of Touch Otal 2002, Touch Otal 2003, Touch Otal 2006, Touch Otal 2008, Touch Otal 2009, Touch Anset 3000, Touch Anset 3010 and Touch Anset 3300.

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Test results by chemical method:

Test Item (s):	Unit	Method	MDL	Result
Polycyclic Aromatic Hydrocarbons (PAHs)				
Benzo[b]fluoranthene (CAS No.: 000205-99-2)	mg/kg	g/kg With reference to ZLS standard ZEK 01.1-08. Analysis was performed by GC/MS.		N.D.
Benzo[k]fluoranthene (CAS No.: 000207-08-9)	mg/kg	With reference to ZLS standard ZEK 01.1-08. Analysis was performed by GC/MS.		N.D.
Benzo[a]pyrene (CAS No.: 000050-32-8)	mg/kg	With reference to ZLS standard ZEK 01.1-08. Analysis was performed by GC/MS.	0.2	N.D.
Dibenzo[a,h]anthracene (CAS No.: 000053-70-3)	mg/kg	mg/kg With reference to ZLS standard ZEK 01.1-08. Analysis was performed by GC/MS.		N.D.
Benzo[g,h,i]perylene (CAS No.: 000191-24-2)	mg/kg	g/kg With reference to ZLS standard ZEK 01.1-08. Analysis was performed by GC/MS.		N.D.
Indeno[1,2,3-c,d]pyrene (CAS No.: 000193-39-5)	mg/kg	With reference to ZLS standard ZEK 01.1-08. Analysis was performed by GC/MS.		N.D.
Sum of 16 PAHs	mg/kg	With reference to ZLS standard ZEK 01.1-08. Analysis was performed by GC/MS.	-	N.D.

Test Part Description :

Sample Description

Mixture of Touch Otal 2002, Touch Otal 2003, Touch Otal 2006, Touch Otal 2008, Touch Otal 2009, Touch Anset 3000, Touch Anset 3010 and Touch Anset 3300.

Note : (a) mg/kg = ppm

- (b) N.D. = Not Detected
 - (c) MDL = Method Detection Limit

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- (d) --- = Not Conducted
- (e) Testing based on original basis

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Reference information: Requirement of ZEK 01.1-08 : Restraining maximum values for products

Parameter	Category 1	Category 2	Category 3	
	Material in contact with foodstuff or materials which are meant to put in the mouth as well as toys for children <36 months	Materials with foreseeable skin contact >30 s (prolonged skin contact) and toys not covered by category 1	Materials with foreseeable skin contact <30 s (short time skin contact) or without skin contact	
Benzo[a]pyrene (mg/kg)	<mdl (<0.2)**<="" td=""><td>1</td><td>20</td></mdl>	1	20	
Sum 16 PAH (EPA) (mg/kg)*	<mdl (<0.2)**<="" td=""><td>10</td><td>200</td></mdl>	10	200	

* = Only PAH substances >0.2 mg/kg are taken into account while calculating the sum of PAHs

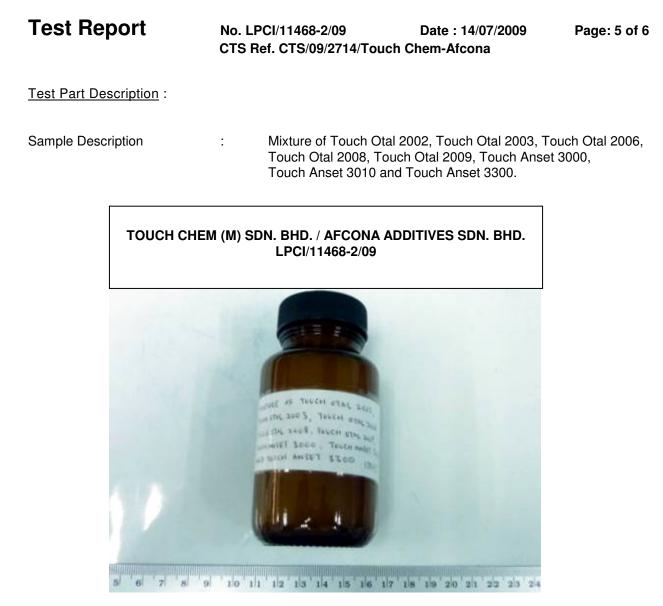
** = In case that the maximum values exceed the limits of category 1, but are within the limits of category 2, one may confirm the suitability of the tested material for contact with foodstuff or oral mucosa by additional specific migration tests of PAH components based on DIN EN 1186ff and §64 LFGB 80.30-1. The conclusion of the migration test results must be made based on food law criteria.

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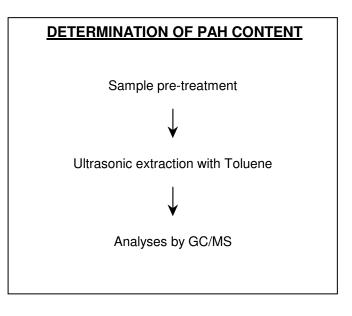
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FLOWCHART:

Test Report



**** End of Report ****

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