

No. CRSSA/11909/17 Date : 02/10/2017 CRS Ref. CRSSA/17/2486/Microclean Page: 1 of 9

MICROCLEAN TECH RUBBER (M) SDN BHD LOT 5, JALAN SULTAN MOHAMAD 5 BANDAR SULTAN SULAIMAN 42000 PORT KLANG, SELANGOR

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

Sample Description Sample Receiving Date Testing Period	:	NBR BLUE EXCOTS 26/09/2017 26/09/2017 to 02/10/2017
Test Requested	:	Selected test(s) as requested by client
Test Method	:	Please refer to next page(s).
Test Results	:	Please refer to next page(s).
Analysts	:	Tan Mei Ann & Ling Yii Ming

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Test results:

Test Part Description :

Sample Description

NBR BLUE EXCOTS

:

RoHS Directive 2011/65/EU Annex II

Test Item(s):	Unit	Test Method	Results	MDL	Limit
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Cd by ICP-OES)	N.D.	2	100
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Pb by ICP-OES)	N.D.	2	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013 (Determination of Hg by ICP-OES)	N.D.	2	1000
Hexavalent Chromium (CrVI)	mg/kg	With reference to IEC 62321:2008 (Determination of CrVI by UV-Vis)	N.D.	2	1000
Sum of PBBs	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	N.D.	-	1000
Monobromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	N.D.	5	-
Dibromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	N.D.	5	-
Tribromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	N.D.	5	-
Tetrabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	N.D.	5	-
Pentabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	N.D.	5	-
Hexabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	N.D.	5	-
Heptabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	N.D.	5	-
Octabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	N.D.	5	-
Nonabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	N.D.	5	-
Decabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	N.D.	5	-

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Sum of PBDEs	mg/kg	With reference to IEC 62321-6:2015	N.D.	-	1000
		(Determination of PBDE by GC-MS)			1000
Monobromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015	N.D.	5	_
Monobiomodiplicity) culci		(Determination of PBDE by GC-MS)	N.D.		
Dibromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015	N.D.	5	_
Distornoulprieny earler	iiig/kg	(Determination of PBDE by GC-MS)	N.D.		
Tribromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015	N.D.	5	-
Thoromodipmentyr ether	iiig/kg	(Determination of PBDE by GC-MS)	N.D.		
Tetrabromodiphenyl ether	malka	With reference to IEC 62321-6:2015	N.D.	5	-
Tetrabiomodiprienyr ether	mg/kg	(Determination of PBDE by GC-MS)	N.D.		
Pentabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015	N.D.	5	-
rentabiomouphenyrether		(Determination of PBDE by GC-MS)			
Havebromediphonul other	mg/kg	With reference to IEC 62321-6:2015	N.D.	5	-
Hexabromodiphenyl ether		(Determination of PBDE by GC-MS)			
Hantahramadinhanyl athar	mg/kg	With reference to IEC 62321-6:2015	N.D.	5	-
Heptabromodiphenyl ether		(Determination of PBDE by GC-MS)			
Octobromodinbonyl othor	mg/kg	With reference to IEC 62321-6:2015	N.D.	5	
Octabromodiphenyl ether		(Determination of PBDE by GC-MS)			-
Nonohromodinhonyl othor	mg/kg	With reference to IEC 62321-6:2015	N.D.	5	
Nonabromodiphenyl ether		(Determination of PBDE by GC-MS)			-
Decabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015	N.D.	5	
		(Determination of PBDE by GC-MS)			-

Note : (a) mg/kg = ppm ; (0.1wt% = 1000ppm)

(b) N.D. = Not Detected

(c) MDL = Method Detection Limit

(d) - = Not regulated

(e) The above test was conducted at SGS Shah Alam Seksyen 22

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Sample Description : NBR BLUE EXCOTS

Optional: RoHS Directive 2011/65/EU, priority substances

Test Item(s):	Unit	Test Method	Results	MDL	Limit
Hexabromocyclododecane (HBCDD) (Cas#25637-99-4 & 3194-55-6)	mg/kg	Based on IEC 62321:2008 (Determination of HBCDD by GC-MS)	N.D.	10	-

Note:

- (a) Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC: Hexabromocyclododecane (HBCDD), Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP) and Dibutyl phthalate (DBP) are considered as a priority for risk evaluation and substance restriction.
- (b) = not regulated
- (c) N.D. = Not Detected
- (d) The above test was conducted at SGS Shah Alam Seksyen 22

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Test result:

Test Part Description :

Sample Description : NBR BLUE EXCOTS

RoHS Directive 2011/65/EU Annex II (amended by Directive (EU) 2015/863)

Test Item(s):	Unit	Test Method	Results	MDL	Limit
Bis (2-ethylhexyl) phthalate (DEHP) (CAS No. 117-81-7)	mg/kg	Based on EN 14372:2004 (Determination of DEHP by GC-MS)	N.D.	30	1000
Butyl benzyl phthalate (BBP) (CAS No. 85-68-7)	mg/kg	Based on EN 14372:2004 (Determination of BBP by GC-MS)	N.D.	30	1000
Dibutyl phthalate (DBP) (CAS No. 84-74-2)	mg/kg	Based on EN 14372:2004 (Determination of DBP by GC-MS)	N.D.	30	1000
Diisobutyl phthalate (DIBP) (CAS No. 84-69-5)	mg/kg	Based on EN 14372:2004 (Determination of DIBP by GC-MS)	N.D.	30	1000

Note : (a) mg/kg = ppm ; (0.1wt% = 1000ppm)

(b) N.D. = Not Detected

(c) MDL = Method Detection Limit

(d) - = Not regulated

(e) The above test was conducted at SGS Shah Alam Seksyen 22.

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Test Report No. CRSSA/11909/17 Date : 02/10/2017 Page: 6 of 9 CRS Ref. CRSSA/17/2486/Microclean Test Part Description : Sample Description NBR BLUE EXCOTS : **MICROCLEAN TECH RUBBER (M) SDN BHD** CRSSA/11909/17 80 0 2 **LUUI** 20 40_30 50 10 09 04 08 06 00)

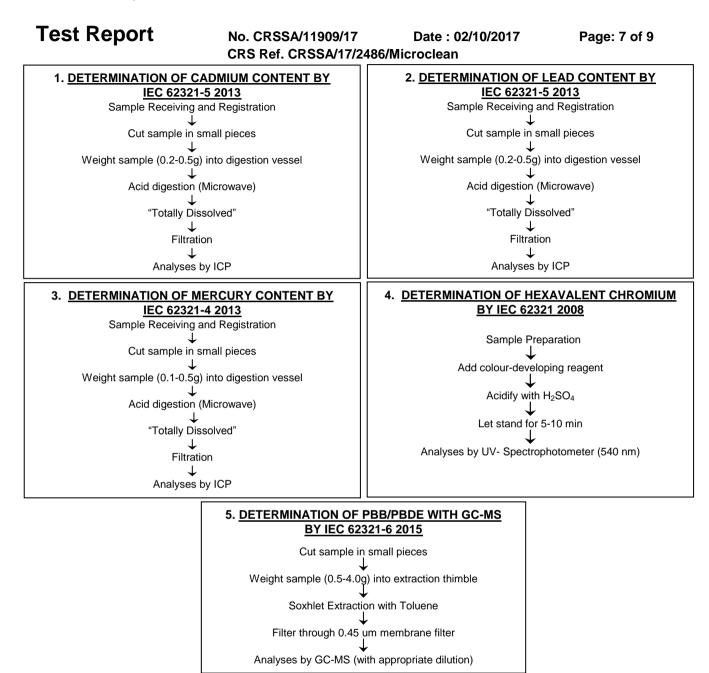
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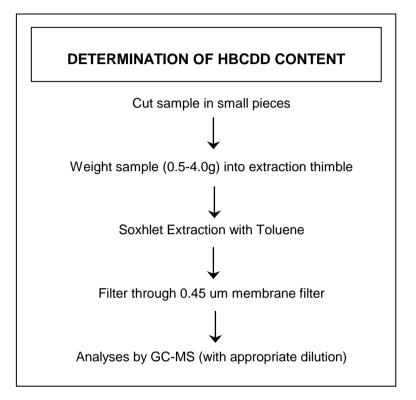
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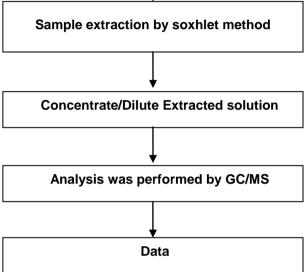


 Test Report
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 Analytical flow chart of Phthalates Content

 Sample pre-treatment/separation



**** End of Report ****

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