

## Test Report

No. CRSSA/14170-2(AD)/17  
CRS Ref. CRSSA/17/2975/

Date : 29/11/2017

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

Sample Description : PBR 1220  
Manufacturer : TAKHT E JAMSHID PETROCHEMICAL COMPANY  
Sample Receiving Date : 21/11/2017  
Testing Period : 21/11/2017 to 29/11/2017

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Test Results : Please refer to next page.

Analyst : Shirley Then

SGS (MALAYSIA) SDN. BHD.



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B.Sc. (HONS) MMIC  
TECHNICAL MANAGER

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Test results by chemical method:

Test Item (s):	Unit	Method	MDL	Result
<b>Polycyclic Aromatic Hydrocarbons (PAHs)</b>	---	---	---	---
Naphthalene (CAS No.: 000091-20-3)	mg/kg	With reference to AfPS GS 2014:01 PAK. Analysis was performed by GC/MS.	0.2	N.D.
Acenaphthylene (CAS No.: 00208-96-8)	mg/kg	With reference to AfPS GS 2014:01 PAK. Analysis was performed by GC/MS.	0.2	N.D.
Acenaphthene (CAS No.: 000083-32-9)	mg/kg	With reference to AfPS GS 2014:01 PAK. Analysis was performed by GC/MS.	0.2	N.D.
Fluorene (CAS No.: 000086-73-7)	mg/kg	With reference to AfPS GS 2014:01 PAK. Analysis was performed by GC/MS.	0.2	N.D.
Phenanthrene (CAS No.: 000085-01-8)	mg/kg	With reference to AfPS GS 2014:01 PAK. Analysis was performed by GC/MS.	0.2	N.D.
Anthracene (CAS No.: 000120-12-7)	mg/kg	With reference to AfPS GS 2014:01 PAK. Analysis was performed by GC/MS.	0.2	N.D.
Fluoranthene (CAS No.: 000206-44-0)	mg/kg	With reference to AfPS GS 2014:01 PAK. Analysis was performed by GC/MS.	0.2	N.D.
Pyrene (CAS No.: 000129-00-0)	mg/kg	With reference to AfPS GS 2014:01 PAK. Analysis was performed by GC/MS.	0.2	N.D.
Benzo[a]anthracene (CAS No.: 000056-55-3)	mg/kg	With reference to AfPS GS 2014:01 PAK. Analysis was performed by GC/MS.	0.2	N.D.
Chrysene (CAS No.: 000218-01-9)	mg/kg	With reference to AfPS GS 2014:01 PAK. Analysis was performed by GC/MS.	0.2	N.D.
Benzo[b]fluoranthene (CAS No.: 000205-99-2) and Benzo[j]fluoranthene (CAS No.: 000205-82-3)	mg/kg	With reference to AfPS GS 2014:01 PAK. Analysis was performed by GC/MS.	0.2	N.D.

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SGS (Malaysia) Sdn. Bhd.  
(Company No. 10871-T)

Lot 4, Persiaran Jubli Perak, Seksyen 22, 40300 Shah Alam, Selangor, Malaysia  
t +6 (03) 5481 8282 f +6 (03) 5481 8215 [www.sgs.com](http://www.sgs.com)

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Test results by chemical method:

Test Item (s):	Unit	Method	MDL	Result
<b>Polycyclic Aromatic Hydrocarbons PAHs)</b>	---	---	---	---
Benzo[k]fluoranthene (CAS No.: 000207-08-9)	mg/kg	With reference to AfPS GS 2014:01 PAK. Analysis was performed by GC/MS.	0.2	N.D.
Benzo[a]pyrene (CAS No.: 000050-32-8)	mg/kg	With reference to AfPS GS 2014:01 PAK. Analysis was performed by GC/MS.	0.2	N.D.
Benzo[e]pyrene (CAS No.: 000192-97-2)	mg/kg	With reference to AfPS GS 2014:01 PAK. Analysis was performed by GC/MS.	0.2	N.D.
Dibenzo[a,h]anthracene (CAS No.: 000053-70-3)	mg/kg	With reference to AfPS GS 2014:01 PAK. Analysis was performed by GC/MS.	0.2	N.D.
Benzo[g,h,i]perylene (CAS No.: 000191-24-2)	mg/kg	With reference to AfPS GS 2014:01 PAK. Analysis was performed by GC/MS.	0.2	N.D.
Indeno[1,2,3-c,d]pyrene (CAS No.: 000193-39-5)	mg/kg	With reference to AfPS GS 2014:01 PAK. Analysis was performed by GC/MS.	0.2	N.D.
2-Methylnaphthalene (CAS No.:000091-57-6)	mg/kg	With reference to AfPS GS 2014:01 PAK. Analysis was performed by GC/MS.	0.2	N.D.
1-Methylnaphthalene (CAS No.: 000090-12-0)	mg/kg	With reference to AfPS GS 2014:01 PAK. Analysis was performed by GC/MS.	0.2	N.D.
<b>Sum of 20 PAHs</b>	mg/kg	With reference to AfPS GS 2014:01 PAK. Analysis was performed by GC/MS.	-	N.D.

Test Part Description :

Sample Description : PBR 1220  
Manufacturer : TAKHT E JAMSHID PETROCHEMICAL COMPANY

- Note : (a) mg/kg = ppm  
(b) N.D. = Not Detected  
(c) MDL = Method Detection Limit  
(d) --- = Not Conducted  
(e) This report supersedes report no. CRSSA/14170-2/17

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## Reference information:

AfPS ( German commission for Product Safety ) : GS PAHs requirements

Parameter	Category 1	Category 2		Category 3	
		Toy under 2009/48/EC	Other products under ProdSG	Toy under 2009/48/EC	Other products under ProdSG
	Material indented to be put in the mouth or toys with intended skin contact (longer than 30 s).	Materials not falling under category 1 with foreseeable contact to skin for longer than 30 seconds (long-term skin or frequent contact).		Materials not falling under category 1 or 2 with foreseeable contact to skin for less than 30 seconds (short-term skin contact).	
Naphthalene (mg/kg)	< 1	< 2		< 10	
Acenaphthylene (mg/kg)	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Acenaphthene (mg/kg)					
Fluorene (mg/kg)					
Phenanthrene (mg/kg)					
Anthracene (mg/kg)					
Fluoranthene (mg/kg)					
Pyrene (mg/kg)					
Benzo[a]anthracene (mg/kg)					
Chrysene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[b]fluoranthene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[j]fluoranthene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[k]fluoranthene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[a]pyrene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[e]pyrene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno[1,2,3-cd]pyrene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenz[a,h]anthracene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[g,h,i]perylene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Sum 18 PAH (mg/kg)	<1	< 5	< 10	< 20	< 50

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TAY SIAM PINE  
B.Sc. (HONS) MMIC  
TECHNICAL MANAGER

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SGS (Malaysia) Sdn. Bhd.  
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Lot 4, Persiaran Jubli Perak, Seksyen 22, 40300 Shah Alam, Selangor, Malaysia  
t +6 (03) 5481 8282 f +6 (03) 5481 8215 [www.sgs.com](http://www.sgs.com)

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### Test Part Description :

Sample Description : PBR 1220  
Manufacturer : TAKHT E JAMSHID PETROCHEMICAL COMPANY



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### DETERMINATION OF PAH CONTENT

Sample pre-treatment



Ultrasonic extraction with Toluene



Analyses by GC/MS

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

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