

## Test Report

No. CRSSA/14168-1(AD)/17  
CRS Ref. CRSSA/17/2975/

Date : 23/11/2017

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

Sample Description : SBR 1712  
Manufacturer : TAKHT E JAMSHID PETROCHEMICAL COMPANY  
Sample Receiving Date : 21/11/2017  
Testing Period : 21/11/2017 to 23/11/2017

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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).  
Analyst : Tan Mei Ann

SGS (MALAYSIA) SDN. BHD.



TAY SIAM PINE  
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TECHNICAL MANAGER

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Test results:

Test Part Description :

Sample Description : SBR 1712  
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**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/AMD1:2017 (Determination of Hg by ICP-OES)	N.D.	2	1000
Hexavalent Chromium (CrVI)	mg/kg	With reference to IEC 62321-7-2:2017 (Determination of CrVI by UV-Vis)	N.D.	8	1000

- Note :
- (a) mg/kg = ppm ; (0.1wt% = 1000ppm)
  - (b) N.D. = Not Detected
  - (c) MDL = Method Detection Limit
  - (d) The result of Hexavalent Chromium (Cr(VI)) is "ND" as the result of Chromium (Cr) is "ND", and confirmation test of Hexavalent Chromium (Cr(VI)) is not required.
  - (e) If the Chromium (Cr) content is greater than the MDL, IN result will be shown in the report. And confirmation test of Hexavalent Chromium (Cr(VI)) is required.
  - (f) This report supersedes report no. CRSSA/14168-1/17

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### Test Part Description :

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SGS authenticate the photo on original report only

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### 1. DETERMINATION OF CADMIUM CONTENT BY

#### IEC 62321-5 2013

Sample Receiving and Registration  
↓  
Cut sample in small pieces  
↓  
Weight sample (0.2-0.5g) into digestion vessel  
↓  
Acid digestion (Microwave)  
↓  
"Totally Dissolved"  
↓  
Filtration  
↓  
Analyses by ICP

### 2. DETERMINATION OF LEAD CONTENT BY

#### IEC 62321-5 2013

Sample Receiving and Registration  
↓  
Cut sample in small pieces  
↓  
Weight sample (0.2-0.5g) into digestion vessel  
↓  
Acid digestion (Microwave)  
↓  
"Totally Dissolved"  
↓  
Filtration  
↓  
Analyses by ICP

### 3. DETERMINATION OF MERCURY CONTENT BY

#### IEC 62321-4 2013/AMD1 2017

Sample Receiving and Registration  
↓  
Cut sample in small pieces  
↓  
Weight sample (0.1-0.5g) into digestion vessel  
↓  
Acid digestion (Microwave)  
↓  
"Totally Dissolved"  
↓  
Filtration  
↓  
Analyses by ICP

### 4a. DETERMINATION OF HEXAVALENT CHROMIUM

#### BY IEC 62321-7-2 2017 (Other Materials)

Sample Preparation  
↓  
Digestion at 150~160°C  
↓  
Separating to Obtain Aqueous Phase  
↓  
pH Adjustment  
↓  
Add Diphenyl-Carbazide for Color Development  
↓  
Analyses by UV- Spectrophotometer (540 nm)

### 4b. DETERMINATION OF HEXAVALENT CHROMIUM BY IEC 62321-7-2 2017 (Soluble Polymers)

Sample Preparation  
↓  
Add Digestion Solution  
↓  
Ultrasonicate Sample  
↓  
pH Adjustment  
↓  
Add Diphenyl-Carbazide for Color Development  
↓  
Analyses by UV- Spectrophotometer (540 nm)

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

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