

## Test Report

No. CTSPN/00307/19

Date: 03/10/2019

Page: 1 of 5

CTS Ref. CTSPN/19/0060/Premium

**PREMIUM MULTI INDUSTRIES SDN BHD**  
**15-1-16, MEDAN KAMPUNG RELAU, BAYAN POINT,**  
**11900 PENANG**

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

Sample Description : Himax Cleaner K-11  
Sample Receiving Date : 27/09/2019  
Testing Period : 27/09/2019 to 03/10/2019

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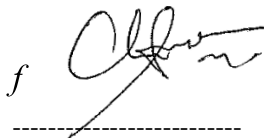
Test Requested : Selected test(s) as requested by client

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Analysts : Tan Lin Wei & Hooi Yee Man

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B.Sc.(HONS) AMIC  
SENIOR LAB MANAGER

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Page: 2 of 5

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Test results:

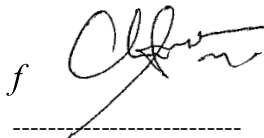
Test Part Description :

Sample Description : Himax Cleaner K-11

**RoHS Directive 2011/65/EU Annex II**

Test Item(s):	Unit	Test Method	Results	MDL
Cadmium(Cd)	mg/kg	With reference to EPA Method 3052, and performed by ICP-OES	N.D.	2
Lead (Pb)	mg/kg	With reference to EPA Method 3050B, and performed by ICP-OES	N.D.	2
Mercury (Hg)	mg/kg	With reference to EPA Method 3052, 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

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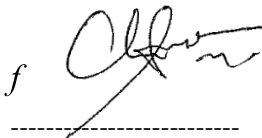
Page: 3 of 5

CTS Ref. CTSPN/19/0060/Premium

Sum of PBDEs	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) - = Not regulated  
 (e) Testing based on original basis

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CTS Ref. CTSPN/19/0060/Premium

Date: 03/10/2019

Page: 4 of 5

### Test Part Description :

Sample Description : Himax Cleaner K-11

**PREMIUM MULTI INDUSTRIES SDN BHD**  
**CTSPN/00307/19**



SGS authenticate the photo on original report only

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

Sample Preparation  
 ↓  
 Add colour-developing reagent  
 ↓  
 Acidify with H<sub>2</sub>SO<sub>4</sub>  
 ↓  
 Let stand for 5-10 min  
 ↓  
 Analyses by UV- Spectrophotometer (540 nm)

**2. DETERMINATION OF LEAD CONTENT BY US EPA 3050B**

Sample Preparation  
 ↓  
 Weight sample (1.0g) into digestion vessel  
 ↓  
 Acid digestion (HCl and HNO<sub>3</sub>)  
 ↓  
 "Totally Dissolved"  
 ↓  
 Filtration  
 ↓  
 Analyses by ICP

**3. MICROWAVE ASSISTED ACID DIGESTION OF SILICEOUS AND ORGANICALLY BASED METRICES (US EPA 3052)**

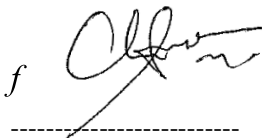
Sample Preparation  
 ↓  
 Weight sample (0.2-0.5g) into digestion vessel  
 ↓  
 Acid digestion (HF and HNO<sub>3</sub>) – Microwave  
 ↓  
 "Totally Dissolved"  
 ↓  
 Filtration  
 ↓  
 Analyses by ICP

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

Sample Preparation  
 ↓  
 Weight sample (0.5-4g) into extraction thimble  
 ↓  
 Ultrasonic / Soxhlet Extraction with Toluene  
 ↓  
 Filter through 0.45 um membrane filter  
 ↓  
 Analyses by GC-MS (with appropriate dilution)

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

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