

No. LPCI/00631/08

CTS Ref. CTS/08/0156/Group

Date: 2008/01/18

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GROUP STEEL CORPORATION (M) SDN. BHD. 180, KAWASAN INDUSTRI AYER KEROH, 75450 MELAKA.

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

Sample Description

Pre-Painted Galvanizing Strip

Cr – free Product (B)

Sample Receiving Date

2008/01/14

Testing Period

2008/01/14 to 2008/01/18

Test Requested

In accordance with the RoHS Directive 2002/95/EC, and its

amendment directives.

Test Method

(1) With reference to EPA Method 3050B for Cadmium Content.

Analysis was performed by ICP

(2) With reference to EPA Method 3050B for Lead Content.

Analysis was performed by ICP

(3) With reference to EPA Method 3052 for Mercury Content.

Analysis was performed by ICP

(4) With reference to EPA Method 3060A & 7196A for Hexavalent

Chromium.

Analysis was performed by UV/Vis Spectrophotometry.

(5) With reference to EPA Method 3540C/3550B for PBB / PBDE

Analysis was performed by GC/MS.

Test Results

Please refer to next page.

Analysts

Lim Meng Hoe & Jocelyn Christmas

SGS LABORATORY SERVICES (M) SDN. BHD.

B.Sc.(HONS) AMIC LAB MANAGER

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Test results by chemical method (Unit: mg/kg)

Test Item(s):	Method (refer to)	Result	<u>MDL</u>
Cadmium(Cd)	(1)	N.D.	2
Lead (Pb)	(2)	N.D.	2
Mercury (Hg)	(3)	N.D.	2
Hexavalent Chromium (CrVI) by alkaline extraction	(4)	N.D.	2
Sum of Polybrominated Biphenyl (PBBs)	(5)	N.D.	
Monobromobiphenyl		N.D.	5
Dibromobiphenyl		N.D	5
Tribromobiphenyl		N.D.	5
Tetrabromobiphenyl		N.D.	5
Pentabromobiphenyl		N.D.	5
Hexabromobiphenyl		N.D.	5
Heptabromobiphenyl		N.D.	5
Octabromobiphenyl		N.D.	5
Nonabromobiphenyl		N.D	5
Decabromobiphenyl		N.D.	5
Sum of Polybrominated Diphenylethers (PBDEs)		N.D.	-
Monobromodiphenyl ether		N.D.	5
Dibromodiphenyl ether		N.D.	5
Tribromodiphenyl ether		N.D.	5
Tetrabromodiphenyl ether		N.D.	5
Pentabromodiphenyl ether		N.D.	5
Hexabromodiphenyl ether		N.D.	5
Heptabromodiphenyl ether		N.D	5
Octabromodiphenyl ether		N.D.	5
Nonabromodiphenyl ether		N.D.	5
Decabromodiphenyl ether		N.D.	5

Test Part Description:

As per page 3

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Test Part Description:

Sample Description

Pre-Painted Galvanizing Strip

Cr - free Product (B)

GROUP STEEL CORPORATION (M) SDN. BHD. LPCI/00631/08



Note: (a) mg/kg = ppm

(b) N.D. = Not Detected

(c) MDL = Method Detection Limit

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

Sample Preparation Add colour-developing reagent Acidify with H2SO4 Let stand for 5-10 min

Analyses by UV- Spectrophotometer (540 nm)

2. DETERMINATION OF LEAD CONTENT BY US **EPA 3050B** Cut sample in small pieces Weight sample (1.0g) into digestion vessel Acid digestion (HCl and HNO₃) "Totally Dissolved"

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

Cut sample in small pieces Weight sample (0.2-0.5g) into digestion vessel Acid digestion (HF and HNO₃) - Microwave "Totally Dissolved" Filtration

Lab. Manager

Analyses by ICP

4. DETERMINATION OF CADMIUM CONTENT BY US **EPA 3050B**

Cut sample in small pieces

Filtration

Analyses by ICP

Weight sample (1.0g) into digestion vessel

Acid digestion (HCI and HNO₃)

"Totally Dissolved"

Filtration

Analyses by ICP

5. DETERMINATION OF PBB/PBDE WITH GC-MS

Cut sample in small pieces

Weight sample (2g) into extraction thimble

Soxhlet Extraction with Toluene

Filter through 0.45 um membrane filter Analyses by GC-MS (with appropriate dilution)			
	Name	Signature	Date
b. Manager	Chong Kien Len	6 Hly.	18 th January 2008

**** End of Report ****

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Prepared By