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TEST REPORT

Report No: AR-22-SV-025642-01
Customer: CSC STEEL SDN. BHD.

Date of Issue: 28/06/2022

Batch No: EUMYBM-00112155 Sample No: 138-2022-06004317

To: CSC STEEL SDN. BHD.

180, Kawasan Industri Ayer Keroh,

Ayer Keroh, 75450 Melaka MALAYSIA

Attn: Ms. Chee Sook Jin

Date Sample Received: 22/06/2022

Date of Testing: 23/06/2022 to 28/06/2022

The following sample was identified by the customer as:

SAMPLE DESCRIPTION: PICKLED & OILED STEEL SAMPLE

SAMPLE ID: JZ5388

Objective (s): Determin

Determination of Cadmium (Cd), Hexavalent Chromium (Cr6+), Lead (Pb), Mercury (Hg), Phthalates, Polybrominated Biphenyl (PBBs), Polybrominated Diphenyl Ether (PBDEs) with RoHS Directive 2011/65/EU and (EU) 2015/863 (amendment in Annex II)

Conclusion:

Test(s) Required	Compliance with Objective(s)
Cadmium (Cd), Lead (Pb), Mercury (Hg), Hexavalent Chromium (Cr6+), Monobromo biphenyl, Dibromo biphenyl, Tribromo biphenyl, Tetrabromo biphenyl, Pentabromo biphenyl, Hexabromo biphenyl, Heptabromo biphenyl, Octabromo biphenyl, Nonabromo biphenyl, Decabromo biphenyl, Sum Polybrominated Biphenyls (PBBs), Monobromo diphenyl ether, Dibromo diphenyl ether, Tribromo diphenyl ether, Tetrabromo diphenyl ether, Pentabromo diphenyl ether, Hexabromo diphenyl ether, Heptabromo diphenyl ether, Octabromo diphenyl ether, Nonabromo diphenyl ether, Decabromo diphenyl ether, Sum Polybrominated Diphenyl Ethers (PBDEs), Benzyl butyl phthalate (BBP), Bis(2-ethylhexyl)phthalate (DEHP), Dibutyl phthalate (DBP), Di-isobutyl phthalate (DIBP)	Comply

Test Result(s):

Analysis	Industrial Products Analysis	Unit	Result	LOQ	Test Method	Specification
SVK51	Cadmium (Cd)	mg/kg	<loq< td=""><td>1</td><td>IEC 62321-5</td><td>≤100mg/kg</td></loq<>	1	IEC 62321-5	≤100mg/kg
SVL03	Lead (Pb)	mg/kg	<loq< td=""><td>10</td><td>IEC 62321-5</td><td>≤1000mg/kg</td></loq<>	10	IEC 62321-5	≤1000mg/kg
SVK82	Mercury (Hg)	mg/kg	<loq< td=""><td>5</td><td>IEC 62321-4</td><td>≤1000mg/kg</td></loq<>	5	IEC 62321-4	≤1000mg/kg
SVK66	Hexavalent Chromium (Cr6+)	-	negative	-	IEC 62321-7-1	≤1000mg/kg (Refer Note 2)
SVK16	Polybrominated Biphenyl (PBBs)				IEC 62321-6	
	Monobromo biphenyl	mg/kg	<loq< td=""><td>20</td><td></td><td>Refer Note 3</td></loq<>	20		Refer Note 3
	Dibromo biphenyl	mg/kg	<loq< td=""><td>20</td><td></td><td>Refer Note 3</td></loq<>	20		Refer Note 3
	Tribromo biphenyl	mg/kg	<loq< td=""><td>20</td><td></td><td>Refer Note 3</td></loq<>	20		Refer Note 3
	Tetrabromo biphenyl	mg/kg	<loq< td=""><td>20</td><td></td><td>Refer Note 3</td></loq<>	20		Refer Note 3
	Pentabromo biphenyl	mg/kg	<loq< td=""><td>20</td><td></td><td>Refer Note 3</td></loq<>	20		Refer Note 3
	Hexabromo biphenyl	mg/kg	<loq< td=""><td>20</td><td></td><td>Refer Note 3</td></loq<>	20		Refer Note 3
	Heptabromo biphenyl	mg/kg	<loq< td=""><td>20</td><td></td><td>Refer Note 3</td></loq<>	20		Refer Note 3
	Octabromo biphenyl	mg/kg	<loq< td=""><td>20</td><td></td><td>Refer Note 3</td></loq<>	20		Refer Note 3
	Nonabromo biphenyl	mg/kg	<loq< td=""><td>20</td><td></td><td>Refer Note 3</td></loq<>	20		Refer Note 3
	Decabromo biphenyl	mg/kg	<loq< td=""><td>20</td><td></td><td>Refer Note 3</td></loq<>	20		Refer Note 3
	Sum Polybrominated Biphenyls (PBBs)	mg/kg	<loq< td=""><td>20</td><td></td><td>≤1000mg/kg</td></loq<>	20		≤1000mg/kg

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Report No: AR-22-SV-025642-01 Customer: CSC STEEL SDN. BHD.

Date of Issue: 28/06/2022



Batch No: EUMYBM-00112155 Sample No: 138-2022-06004317

Analysis	Industrial Products Analysis	Unit	Result	LOQ	Test Method	Specification
SVK17	Polybrominated Diphenyl Ether (PBDEs)				IEC 62321-6	
	Monobromo diphenyl ether	mg/kg	<loq< td=""><td>20</td><td></td><td>Refer Note 3</td></loq<>	20		Refer Note 3
	Dibromo diphenyl ether	mg/kg	<loq< td=""><td>20</td><td></td><td>Refer Note 3</td></loq<>	20		Refer Note 3
	Tribromo diphenyl ether	mg/kg	<loq< td=""><td>20</td><td></td><td>Refer Note 3</td></loq<>	20		Refer Note 3
	Tetrabromo diphenyl ether	mg/kg	<loq< td=""><td>20</td><td></td><td>Refer Note 3</td></loq<>	20		Refer Note 3
	Pentabromo diphenyl ether	mg/kg	<loq< td=""><td>20</td><td></td><td>Refer Note 3</td></loq<>	20		Refer Note 3
	Hexabromo diphenyl ether	mg/kg	<loq< td=""><td>20</td><td></td><td>Refer Note 3</td></loq<>	20		Refer Note 3
	Heptabromo diphenyl ether	mg/kg	<loq< td=""><td>20</td><td></td><td>Refer Note 3</td></loq<>	20		Refer Note 3
	Octabromo diphenyl ether	mg/kg	<loq< td=""><td>20</td><td></td><td>Refer Note 3</td></loq<>	20		Refer Note 3
	Nonabromo diphenyl ether	mg/kg	<loq< td=""><td>20</td><td></td><td>Refer Note 3</td></loq<>	20		Refer Note 3
	Decabromo diphenyl ether	mg/kg	<loq< td=""><td>20</td><td></td><td>Refer Note 3</td></loq<>	20		Refer Note 3
	Sum Polybrominated Diphenyl Ethers (PBDEs)	mg/kg	<loq< td=""><td>20</td><td></td><td>≤1000mg/kg</td></loq<>	20		≤1000mg/kg
SVV1Q	Phthalates				IEC 62321-8	
	Benzyl butyl phthalate (BBP)	% (w/w)	<loq< td=""><td>0.02</td><td></td><td>≤0.1%</td></loq<>	0.02		≤0.1%
	Bis(2-ethylhexyl)phthalate (DEHP)	% (w/w)	<loq< td=""><td>0.02</td><td></td><td>≤0.1%</td></loq<>	0.02		≤0.1%
	Dibutyl phthalate (DBP)	% (w/w)	<loq< td=""><td>0.02</td><td></td><td>≤0.1%</td></loq<>	0.02		≤0.1%
	Di-isobutyl phthalate (DiBP)	% (w/w)	<loq< td=""><td>0.02</td><td></td><td>≤0.1%</td></loq<>	0.02		≤0.1%

Specification Note

- 1. RoHS Directive 2011/65/EU and (EU) 2015/863 (amendment in Annex II)
- Expression result for Hexavalent Chromium
- i. Concentration of Hexavalent chromium (<0.10μg/cm2) = Negative (sample coating is consider non Cr(VI) based coating)
- ii. Concentration of Hexavalent chromium (≥0.10 and ≤0.13 µg/cm2) = Inconclusive (Unavoidable coating variations may influence the determination)
- iii.Concentration of Hexavalent chromium (≥0.13µg/cm2) = Positive (Sample coating is consider to contain Cr(VI))
- 3. Based on sum amount of PBB/PBDE limit, which is ≤1000mg/kg

Remark

- 1. The test portion was totally dissolved for cadmium, lead & mercury test by using pre-conditioning method as mentioned above.
- 2. IEC 62321 flowchart can be obtained from https://admin.apac-websites.eurofins.com/media/606192/efctm001-issue-2.pdf

This 3 page(s) of report and its attachment(s), if relevant, has/have been validated by

ChM Shaya Fan Ong B Sa (Hana) In

ChM. Sheue Fen Ong, *B. Sc (Hons) Industrial Chemistry* IKM Registered Chemist Registered No.:M/2864/5629/09







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EXPLANATORY NOTE

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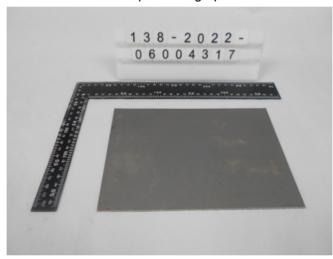
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N/A means not applicable.

<LOD means not detected at or below the Limit of Detection (LOD).

LOQ means below the Limit of Quantification (LOQ)

Sample Photograph



- End of Report -

MALAYSIA