

TEST REPORT Page No: 1/1

Report No: AR-24-Q5-010790-01 Customer: CSC Steel Sdn Bhd

Date of Issue: 21/08/2024

Batch No: EUMY04-00011757

To: CSC Steel Sdn Bhd

180 Kawasan Industri Ayer Keroh

0

75450 Ayer Keroh Melaka MALAYSIA

Attn: Lee Hui Kien

Date Sample Received: 07/08/2024

**Date of Testing:** 09/08/2024 to 21/08/2024

The following sample(s) was(were) identified by the customer as:

187-2024-08000868:

CR KJ5358

This 1 page(s) of report and its attachment(s), if relevant, has/have been validated by

ChM. Muhammad Nur Faaizi , B. Sc (Hons) Industrial

Chemistry

**IKM Registered Chemist** 

Registered No.:M/5359/7938/18/20

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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).

- End of Report -

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## **TEST REPORT**

Report No: AR-24-SV-034899-01 **CSC Steel Sdn Bhd Customer:** 

Date of Issue: 21/08/2024

EUMYBM-00175780 Sample No: 138-2024-08001652

To: **CSC Steel Sdn Bhd** 

180 Kawasan Industri Ayer Keroh

75450 Ayer Keroh Melaka MALAYSIA

Attn: Lee Hui Kien Date Sample Received: 13/08/2024

> Date of Testing: 14/08/2024 to 16/08/2024

The following sample was identified by the customer as:

CR KJ5358

187-2024-08000868 **Client Sample Code:** 

Determination of Cadmium (Cd), Hexavalent Chromium (Cr6+), Lead (Pb), Mercury (Hg), Phthalates, Polybrominated Biphenyl Objective (s):

(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, Hexabromo 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 62321-5:2013</td><td>≤100mg/kg</td></loq<>	1	IEC 62321-5:2013	≤100mg/kg
SVL03	Lead (Pb)	mg/kg	<loq< td=""><td>10</td><td>IEC 62321-5:2013</td><td>≤1000mg/kg</td></loq<>	10	IEC 62321-5:2013	≤1000mg/kg
SVK82	Mercury (Hg)	mg/kg	<loq< td=""><td>5</td><td>IEC 62321-4:2013</td><td>≤1000mg/kg</td></loq<>	5	IEC 62321-4:2013	≤1000mg/kg
SVK66	Hexavalent Chromium (Cr6+)	-	negative	-	IEC 62321-7-1:2015	Refer Note 2
SVK16	Polybrominated Biphenyl (PBBs)				IEC 62321-6:2015	
	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

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## **TEST REPORT**

Report No: AR-24-SV-034899-01 **CSC Steel Sdn Bhd Customer:** 

Date of Issue: 21/08/2024



EUMYBM-00175780 Sample No: 138-2024-08001652

Analysis	Industrial Products Analysis	Unit	Result	LOQ	Test Method	Specification
	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
SVK17	Polybrominated Diphenyl Ether (PBDEs)				IEC 62321-6:2015	
	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 62321-8:2017	
	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)
- 2. Expression result for Hexavalent Chromium
- i. Concentration of Hexavalent chromium (<0.10 μg/cm²) = Negative (sample coating is considered a non-Cr(VI) based coating)
- ii. Concentration of Hexavalent chromium (≥0.10 μg/cm² and ≤0.13 μg/cm²) = Inconclusive (unavoidable coating variations may influence the determination)
- iii.Concentration of Hexavalent chromium (>0.13 μg/cm²) = Positive (sample coating is considered to contain Cr(VI))
- 3. Based on sum amount of PBB/PBDE limit, which is ≤1000mg/kg

- 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://cdnmedia.eurofins.com/apac/media/606192/efctm001-issue-2.pdf

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

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

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## **TEST REPORT**

Report No: AR-24-SV-034899-01 **CSC Steel Sdn Bhd Customer:** 

Date of Issue: 21/08/2024



EUMYBM-00175780 Sample No: 138-2024-08001652

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## Sample Photograph



- End of Report -

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