

TEST REPORT

Report No: AR-22-SV-025644-01
Customer: CSC STEEL SDN. BHD.
Date of Issue: 28/06/2022



Batch No: EUMYBM-00112155
Sample No: 138-2022-06004319

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: REALZINC™ HIGIENE SAMPLE
 ID: KA0105

Objective (s): 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 | 1 | IEC 62321-5 | ≤100mg/kg |
| SVL03 | Lead (Pb) | mg/kg | <LOQ | 10 | IEC 62321-5 | ≤1000mg/kg |
| SVK82 | Mercury (Hg) | mg/kg | <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 | 20 | | Refer Note 3 |
| | Dibromo biphenyl | mg/kg | <LOQ | 20 | | Refer Note 3 |
| | Tribromo biphenyl | mg/kg | <LOQ | 20 | | Refer Note 3 |
| | Tetrabromo biphenyl | mg/kg | <LOQ | 20 | | Refer Note 3 |
| | Pentabromo biphenyl | mg/kg | <LOQ | 20 | | Refer Note 3 |
| | Hexabromo biphenyl | mg/kg | <LOQ | 20 | | Refer Note 3 |
| | Heptabromo biphenyl | mg/kg | <LOQ | 20 | | Refer Note 3 |
| | Octabromo biphenyl | mg/kg | <LOQ | 20 | | Refer Note 3 |
| | Nonabromo biphenyl | mg/kg | <LOQ | 20 | | Refer Note 3 |
| | Decabromo biphenyl | mg/kg | <LOQ | 20 | | Refer Note 3 |
| | Sum Polybrominated Biphenyls (PBBs) | mg/kg | <LOQ | 20 | | ≤1000mg/kg |

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

Specification Note

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

Remark

- The test portion was totally dissolved for cadmium, lead & mercury test by using pre-conditioning method as mentioned above.
- 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



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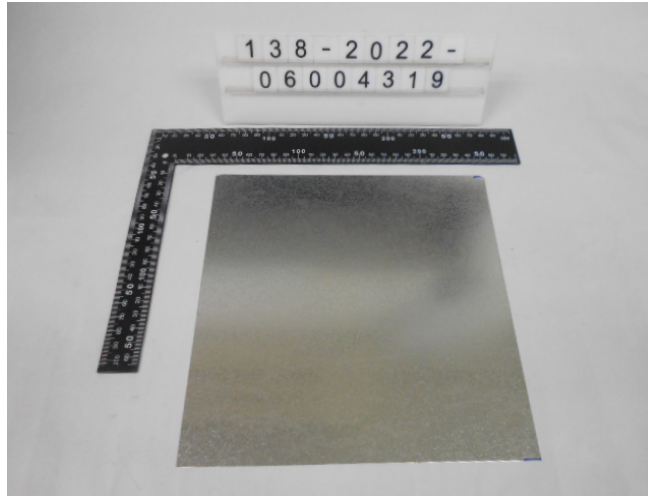
EXPLANATORY NOTE

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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 -