

TEST REPORT:

No. CPSN/250353976-CB72950

REPORTED DATE: 10-March-2025

Job Ref. C&P/2025-02-26-002

SINGAPORE ASAHI CHEMICAL & SOLDER INDUSTRIES PTE LTD

47 PANDAN ROAD SINGAPORE 609288

The following sample(s) was/were submitted and identified by applicant as:


SAMPLE DESCRIPTION : SCS7H
SAMPLE RECEIVED : 26-February-2025
TESTING PERIOD : 26-February-2025 to 04-March-2025

TEST REQUESTED : Selected test(s) as requested by customer

TEST METHOD : -PLEASE REFER TO NEXT PAGE(S)-

TEST RESULTS : -PLEASE REFER TO NEXT PAGE(S)-

SIGNED FOR AND ON BEHALF OF
SGS (MALAYSIA) SDN BHD



NURUL NADIAH ARMYS
SENIOR CHEMIST
IKM NO. M/6708/8574/20/24



Test Report Form No.: SGS/TR/CP/039, Ver: 1.0, Effective Date: 21/07/2023

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TEST RESULTS:

Test Part Description

Sample Description: -PLEASE REFER TO PAGE 1-

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

| Test Parameter(s): | Unit | Test Method | Result | MDL | Limit |
|----------------------------|--------------------|---|--------|------|----------|
| Lead (Pb) | mg/kg | With reference to IEC 62321-5:2013, determination of Lead by ICP-OES. | 64 | 2 | Max 1000 |
| Cadmium (Cd) | mg/kg | With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES. | N.D. | 2 | Max 100 |
| Mercury (Hg) | mg/kg | With reference to IEC 62321-4:2013+A1:2017, determination of Mercury by ICP-OES. | N.D. | 2 | Max 1000 |
| Hexavalent Chromium (CrVI) | µg/cm ² | With reference to IEC 62321-7-1:2015, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis. | N.D. | 0.10 | - |
| Sum of PBBs | mg/kg | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS. | N.D. | - | Max 1000 |
| Monobromobiphenyl | mg/kg | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS. | N.D. | 5 | - |
| Dibromobiphenyl | mg/kg | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS. | N.D. | 5 | - |
| Tribromobiphenyl | mg/kg | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS. | N.D. | 5 | - |
| Tetrabromobiphenyl | mg/kg | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS. | N.D. | 5 | - |
| Pentabromobiphenyl | mg/kg | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS. | N.D. | 5 | - |
| Hexabromobiphenyl | mg/kg | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS. | N.D. | 5 | - |
| Heptabromobiphenyl | mg/kg | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS. | N.D. | 5 | - |
| Octabromobiphenyl | mg/kg | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS. | N.D. | 5 | - |
| Nonabromobiphenyl | mg/kg | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS. | N.D. | 5 | - |
| Decabromobiphenyl | mg/kg | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS. | N.D. | 5 | - |

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SGS (Malaysia) Sdn.Bhd.
(Company No. 10871-T)

No. 60, Jalan I-Park SAC 6, Taman Perindustrian I-Park SAC, 81400 Senai, Johor, Malaysia
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Member of the SGS Group (SGS SA)

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TEST RESULTS:

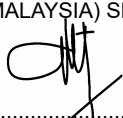
Test Part Description

Sample Description: -PLEASE REFER TO PAGE 1-

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

| Test Parameter(s): | Unit | Test Method | Result | MDL | Limit |
|--------------------------|-------|---|--------|-----|----------|
| Sum of PBDEs | mg/kg | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS. | N.D. | - | Max 1000 |
| Monobromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS. | N.D. | 5 | - |
| Dibromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS. | N.D. | 5 | - |
| Tribromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS. | N.D. | 5 | - |
| Tetrabromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS. | N.D. | 5 | - |
| Pentabromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS. | N.D. | 5 | - |
| Hexabromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS. | N.D. | 5 | - |
| Heptabromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS. | N.D. | 5 | - |
| Octabromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS. | N.D. | 5 | - |
| Nonabromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS. | N.D. | 5 | - |
| Decabromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS. | N.D. | 5 | - |

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TEST RESULTS:

Test Part Description

Sample Description: -PLEASE REFER TO PAGE 1-

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

| Test Parameter(s): | Unit | Test Method | Result | MDL | Limit |
|---|-------|--|--------|-----|----------|
| Dibutyl phthalate (DBP) (CAS No. 84-74-2) | mg/kg | With reference to IEC 62321-8:2017, determination of phthalates by GC-MS. | N.D. | 50 | Max 1000 |
| Benzyl butyl phthalate (BBP) (CAS No. 85-68-7) | mg/kg | With reference to IEC 62321-8:2017, determination of phthalates by GC-MS. | N.D. | 50 | Max 1000 |
| Di-(2-ethylhexyl) phthalate (DEHP) (CAS No. 117-81-7) | mg/kg | With reference to IEC 62321-8:2017, determination of phthalates by GC-MS. | N.D. | 50 | Max 1000 |
| Diisobutyl phthalate (DIBP) (CAS No. 84-69-5) | mg/kg | With reference to IEC 62321-8:2017, determination of phthalates by GC-MS. | N.D. | 50 | Max 1000 |

Note : (a) mg/kg = ppm ; (0.1wt% = 1000ppm)

(b) N.D. = Not Detected

(c) MDL = Method Detection Limit

(d) - = Not regulated

(e) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

- a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI.
- b. The sample is negative for CrVI if CrVI is N.D. (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating.
- c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination.
For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.
- The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

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CB72950



SGS authenticate the photo on original report only

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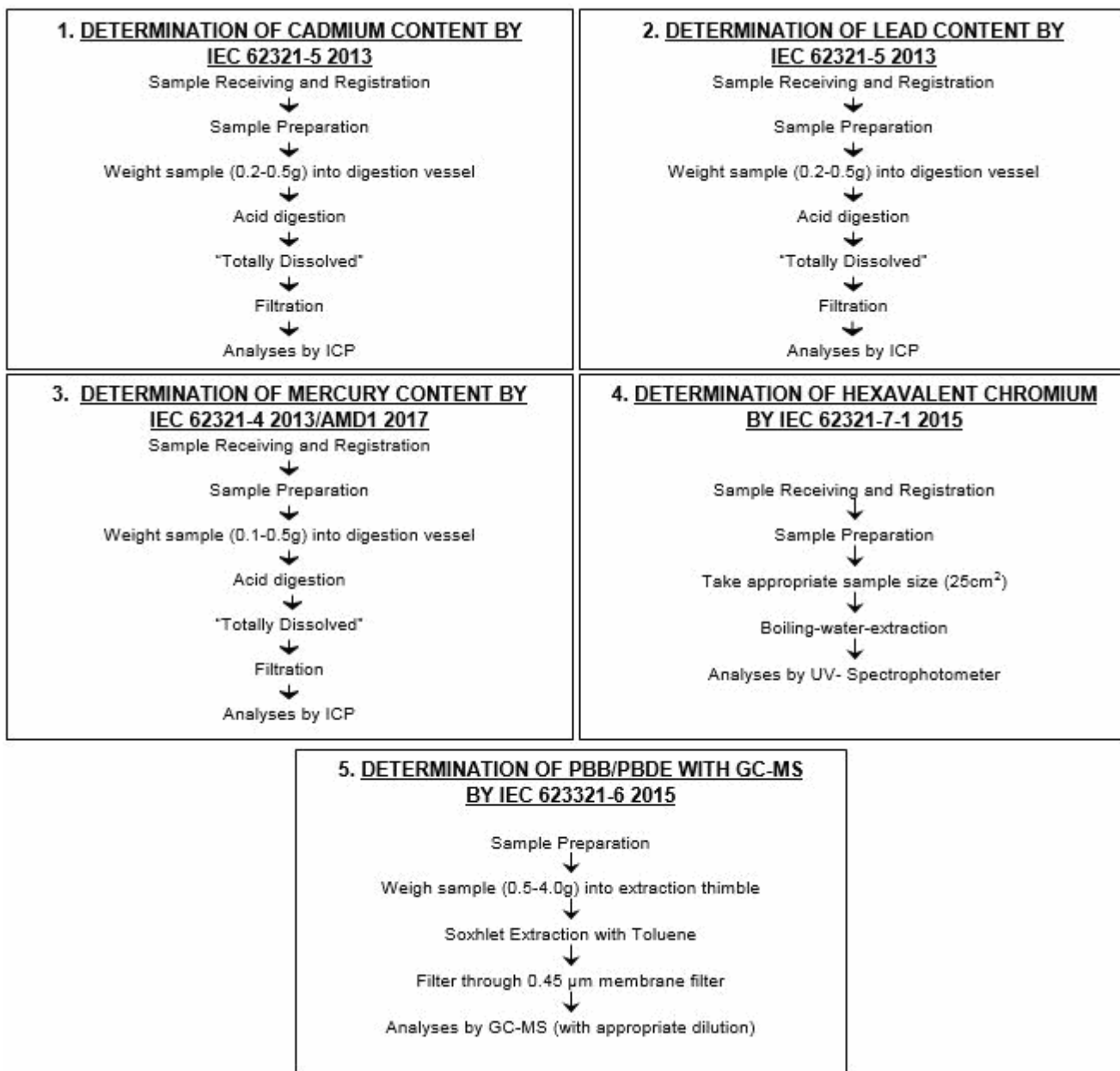
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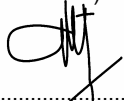
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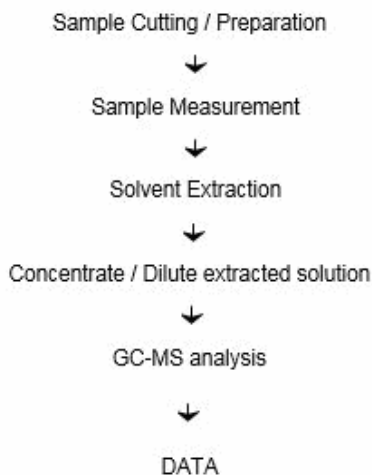
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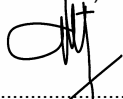
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DETERMINATION OF PHTHALATES WITH GC-MS

BY IEC 62321-8:2017



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*** End of test report ***

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