



Test Report

No.: ETR26500522

Date: 13-May-2026

Page: 1 of 20

PALM COMMODITIES INTERNATIONAL LLC
1717 JP HENNESSY DR, LAVERGNE TN 37086

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

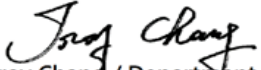
Sample Submitted By : PALM COMMODITIES INTERNATIONAL LLC
Sample Name : Nickel Sulfamate solution

Sample Receiving Date : 06-May-2026
Testing Period : 06-May-2026 to 13-May-2026

Test Requested : (1) As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).
(2) As specified by client, the sample(s) was/ were tested for 5 PBTs with reference to TSCA section 6 and 40 CFR Part 751. Please refer to result table for testing items.
(3) Please refer to next pages for the other item(s).

Test Results : Please refer to following pages.

Conclusion : (1) Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.
(2) Based on the performed tests on submitted sample(s), the test results of PBTs comply with the limits as set by TSCA section 6 and 40 CFR Part 751.


Troy Chang / Department Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei



PIN CODE: CDA50B6D

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Test Report

No.: ETR26500522

Date: 13-May-2026

Page: 2 of 20

PALM COMMODITIES INTERNATIONAL LLC
1717 JP HENNESSY DR, LAVERGNE TN 37086

Test Part Description

No.1 : GREEN LIQUID

Test Result(s)

Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Cadmium (Cd)	With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.	mg/kg	2	n.d.	100
Lead (Pb)	With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.	mg/kg	2	n.d.	1000
Mercury (Hg)	With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.	mg/kg	2	n.d.	1000
Hexavalent Chromium Cr(VI)	With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.	mg/kg	8	n.d.	1000
Monobromobiphenyl	With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.	mg/kg	5	n.d.	-
Dibromobiphenyl		mg/kg	5	n.d.	-
Tribromobiphenyl		mg/kg	5	n.d.	-
Tetrabromobiphenyl		mg/kg	5	n.d.	-
Pentabromobiphenyl		mg/kg	5	n.d.	-
Hexabromobiphenyl		mg/kg	5	n.d.	-
Heptabromobiphenyl		mg/kg	5	n.d.	-
Octabromobiphenyl		mg/kg	5	n.d.	-
Nonabromobiphenyl		mg/kg	5	n.d.	-
Decabromobiphenyl		mg/kg	5	n.d.	-
Sum of PBBs		mg/kg	-	n.d.	1000
Monobromodiphenyl ether		mg/kg	5	n.d.	-
Dibromodiphenyl ether		mg/kg	5	n.d.	-
Tribromodiphenyl ether		mg/kg	5	n.d.	-
Tetrabromodiphenyl ether		mg/kg	5	n.d.	-
Pentabromodiphenyl ether		mg/kg	5	n.d.	-
Hexabromodiphenyl ether		mg/kg	5	n.d.	-
Heptabromodiphenyl ether		mg/kg	5	n.d.	-
Octabromodiphenyl ether		mg/kg	5	n.d.	-
Nonabromodiphenyl ether		mg/kg	5	n.d.	-
Decabromodiphenyl ether		mg/kg	5	n.d.	-
Sum of PBDEs		mg/kg	-	n.d.	1000

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Test Report

No.: ETR26500522

Date: 13-May-2026

Page: 3 of 20

PALM COMMODITIES INTERNATIONAL LLC
1717 JP HENNESSY DR, LAVERGNE TN 37086

Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Butyl benzyl phthalate (BBP)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.	1000
Dibutyl phthalate (DBP)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.	1000
Di-(2-ethylhexyl) phthalate (DEHP)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.	1000
Diisobutyl phthalate (DIBP)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.	1000
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	With reference to IEC 62321-9: 2021, analysis was performed by GC/MS.	mg/kg	20	n.d.	-
Fluorine (F) (CAS No.: 14762-94-8)	With reference to BS EN 14582: 2016, analysis was performed by IC.	mg/kg	50	n.d.	-
Chlorine (Cl) (CAS No.: 22537-15-1)	With reference to BS EN 14582: 2016, analysis was performed by IC.	mg/kg	50	n.d.	-
Bromine (Br) (CAS No.: 10097-32-2)	With reference to BS EN 14582: 2016, analysis was performed by IC.	mg/kg	50	n.d.	-
Iodine (I) (CAS No.: 14362-44-8)	With reference to BS EN 14582: 2016, analysis was performed by IC.	mg/kg	50	n.d.	-
Tetrabromobisphenol A (TBBP-A) (CAS No.: 79-94-7)	With reference to RSTS-E&E-121, analysis was performed by LC/MS.	mg/kg	10	n.d.	-
Short Chain Chlorinated Paraffins(C10-C13) (SCCP) (CAS No.: 85535-84-8)	With reference to ISO 18219-1: 2021, analysis was performed by GC/MS.	mg/kg	50	n.d.	-
Bisphenol A (CAS No.: 80-05-7)	With reference to RSTS-CHEM-239-1, analysis was performed by LC/MS/MS.	mg/kg	1	n.d.	-
Polyvinyl chloride (PVC)	With reference to ASTM E1252: 2021, analysis was performed by FT-IR and Flame Test.	**	-	Negative	-

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Test Report

No.: ETR26500522

Date: 13-May-2026

Page: 4 of 20

PALM COMMODITIES INTERNATIONAL LLC
1717 JP HENNESSY DR, LAVERGNE TN 37086

Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Triphenyl tin (TPT)	With reference to ISO 22744-1: 2020, analysis was performed by GC/MS.	mg/kg	100	n.d.	-
Dibutyl tin (DBT)	With reference to ISO 22744-1: 2020, analysis was performed by GC/MS.	mg/kg	100	n.d.	-
Dioctyl tin (DOT)	With reference to ISO 22744-1: 2020, analysis was performed by GC/MS.	mg/kg	100	n.d.	-
Tricyclohexyltin (TcyT)	With reference to ISO 22744-1: 2020, analysis was performed by GC/MS.	mg/kg	100	n.d.	-
Diphenyl tin (DPHT)	With reference to ISO 22744-1: 2020, analysis was performed by GC/MS.	mg/kg	100	n.d.	-
Monooctyl tin (MOT)	With reference to ISO 22744-1: 2020, analysis was performed by GC/MS.	mg/kg	100	n.d.	-
MonoPhenyl tin (MPHT)	With reference to ISO 22744-1: 2020, analysis was performed by GC/MS.	mg/kg	100	n.d.	-
Tetrabutyl tin (TeBT)	With reference to ISO 22744-1: 2020, analysis was performed by GC/MS.	mg/kg	100	n.d.	-
Di-(2-ethylhexyl) phthalate (DEHP) (CAS No.: 117-81-7)	With reference to CPSC-CH-C1001-09.4: 2018. analysis was performed by GC/MS.	mg/kg	50	n.d.	-
Butyl benzyl phthalate (BBP) (CAS No.: 85-68-7)	With reference to CPSC-CH-C1001-09.4: 2018. analysis was performed by GC/MS.	mg/kg	50	n.d.	-
Dibutyl phthalate (DBP) (CAS No.: 84-74-2)	With reference to CPSC-CH-C1001-09.4: 2018. analysis was performed by GC/MS.	mg/kg	50	n.d.	-
Diisobutyl phthalate (DIBP) (CAS No.: 84-69-5)	With reference to CPSC-CH-C1001-09.4: 2018. analysis was performed by GC/MS.	mg/kg	50	n.d.	-
Diisodecyl phthalate (DIDP) (CAS No.: 26761-40-0, 68515-49-1)	With reference to CPSC-CH-C1001-09.4: 2018. analysis was performed by GC/MS.	mg/kg	50	n.d.	-
Diisononyl phthalate (DINP) (CAS No.: 28553-12-0, 68515-48-0)	With reference to CPSC-CH-C1001-09.4: 2018. analysis was performed by GC/MS.	mg/kg	50	n.d.	-

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Test Report

No.: ETR26500522

Date: 13-May-2026

Page: 5 of 20

PALM COMMODITIES INTERNATIONAL LLC
1717 JP HENNESSY DR, LAVERGNE TN 37086

Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Di-n-octyl phthalate (DNOP) (CAS No.: 117-84-0)	With reference to CPSC-CH-C1001-09.4: 2018, analysis was performed by GC/MS.	mg/kg	50	n.d.	-
Di-n-hexyl phthalate (DHEXP) (CAS No.: 84-75-3)	With reference to CPSC-CH-C1001-09.4: 2018. analysis was performed by GC/MS.	mg/kg	50	n.d.	-
Decabromodiphenyl ether (DecaBDE) (CAS No.: 1163-19-5)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	5	n.d.	1000 / N/A(*3)
Phenol, isopropylated, phosphate (3:1) (PIP 3:1) (CAS No.: 68937-41-7)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	5	n.d.	1000 / N/A(*1)
2,4,6-Tris(tert-butyl)phenol (2,4,6-TTBP) (CAS No.: 732-26-3)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	5	n.d.	3000 / N/A(*2)
Pentachlorothiophenol (PCTP) (CAS No.: 133-49-3)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	5	n.d.	10000
Hexachlorobutadiene (HCBD) (CAS No.: 87-68-3)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	5	n.d.	Prohibited
Arsenic (As) (CAS No.: 7440-38-2)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.	-
Beryllium (Be) (CAS No.: 7440-41-7)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.	-
Iron (Fe) (CAS No.: 7439-89-6)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.	-
Antimony (Sb) (CAS No.: 7440-36-0)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.	-

Note :

1. mg/kg = ppm ; 0.1wt% = 0.1% = 1000ppm
2. MDL = Method Detection Limit
3. n.d. = Not Detected (Less than MDL)
4. "-" = Not Regulated
5. ** = Qualitative analysis (No Unit)
6. Negative = Undetectable ; Positive = Detectable
7. Unless otherwise stated , the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.

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Test Report

No.: ETR26500522

Date: 13-May-2026

Page: 6 of 20

PALM COMMODITIES INTERNATIONAL LLC
1717 JP HENNESSY DR, LAVERGNE TN 37086

8. Detail explanation of the regulation is available at the following link.

<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-R/part-751?toc=1>

9. N/A(*1) : The submitted sample is exempted from the regulated scope if it is anyone of the following :

- Hydraulic fluids for aviation or military
- Lubricants and grease
- New and replacement parts for motor and aerospace vehicles
- Manufacture of cyanoacrylate adhesives in closed systems
- Specialized engine air filters for locomotive and marine applications
- Plastic for recycling from PIP (3:1)-containing products or articles
- Finished products or articles made of plastic recycled from PIP (3:1)-containing products or articles
- Distribution in commerce of PIP (3:1)-containing articles before October 31, 2026
- Circuit boards and wire harnesses, including but not limited to terminal and fuse covers, cable sleeves, casings, connectors, and tapes
- Articles that contain PIP (3:1), and where PIP (3:1) has not been newly added, for the purpose of repair or maintenance
- New manufacturing equipment, including in the semiconductor industry, for new heating, ventilation, air-conditioning, refrigeration, and water-heating equipment, new power generating equipment, new laboratory equipment, new commercial electronic equipment

10. N/A(*2) : The submitted sample is exempted from the regulated scope if it is not oil and lubricant additives.

11. N/A(*3) : The submitted sample is exempted from the regulated scope if it is anyone of the following :

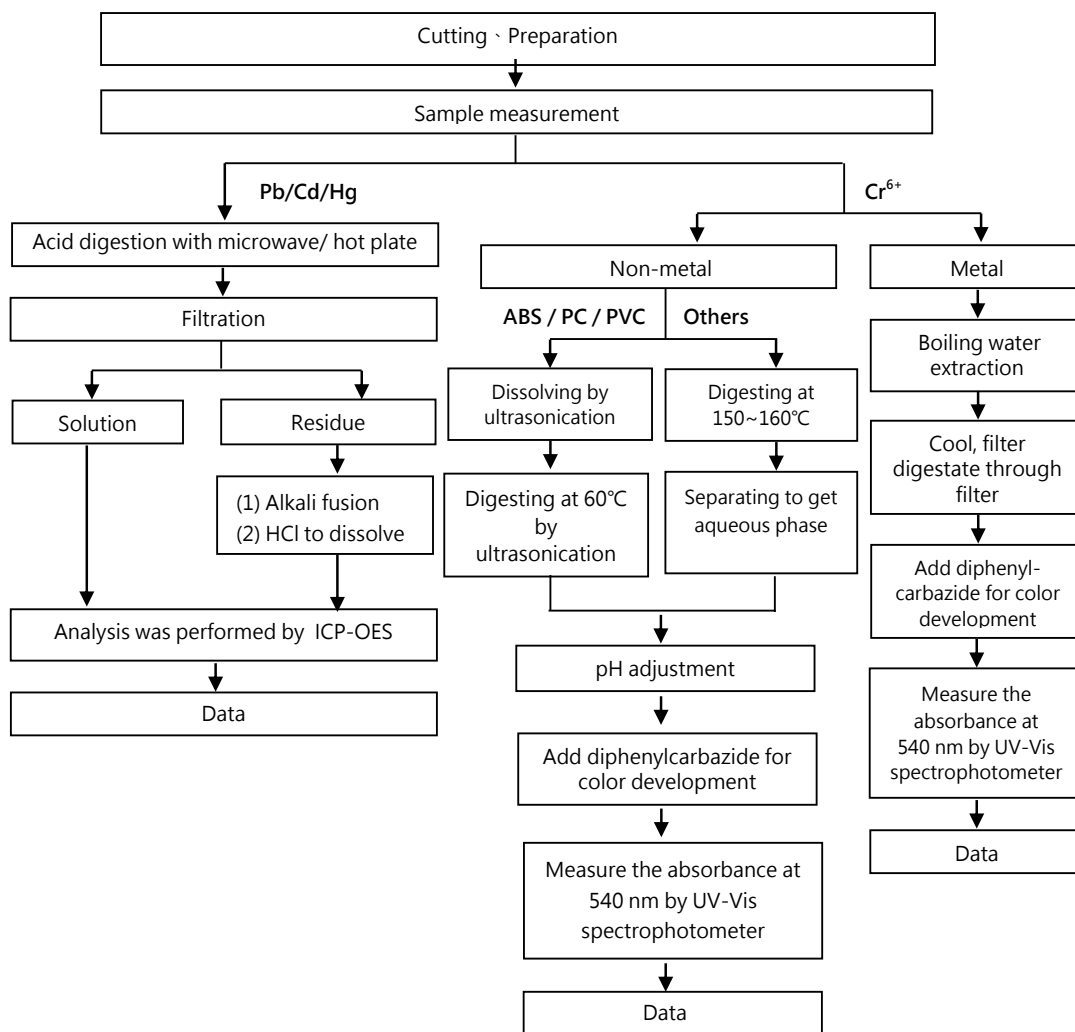
Exempts processing and distribution for recycling of DecaBDE-containing plastic from products or articles and DecaBDE-containing products or articles made from such recycled plastic.

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Analytical flow chart of heavy metal

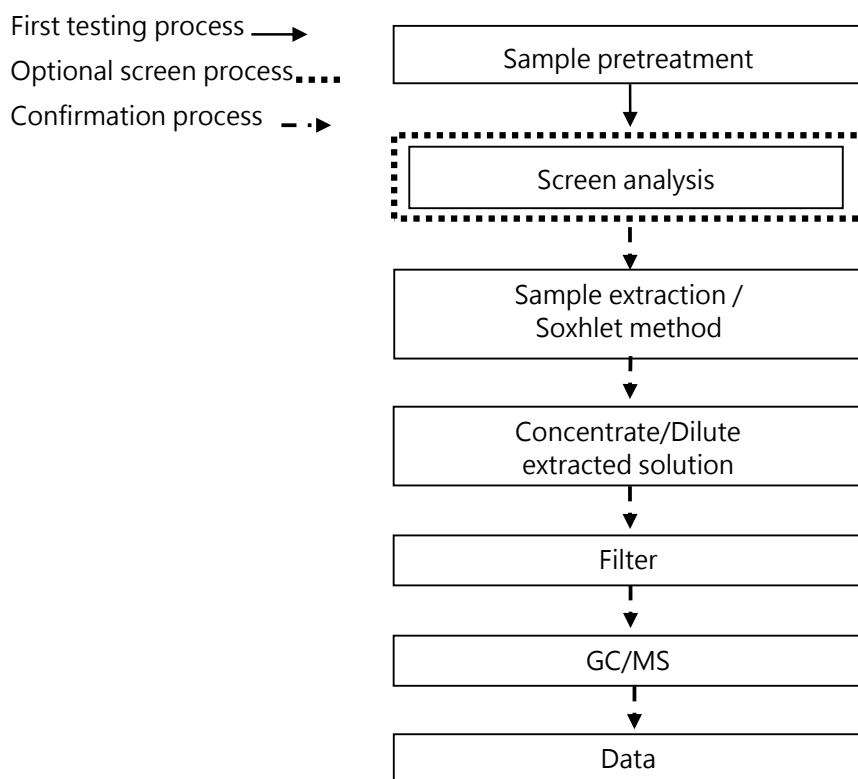
These samples were dissolved totally by pre-conditioning method according to below flow chart.

(Cr^{6+} test method excluded)



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Analytical flow chart – PBBs / PBDEs

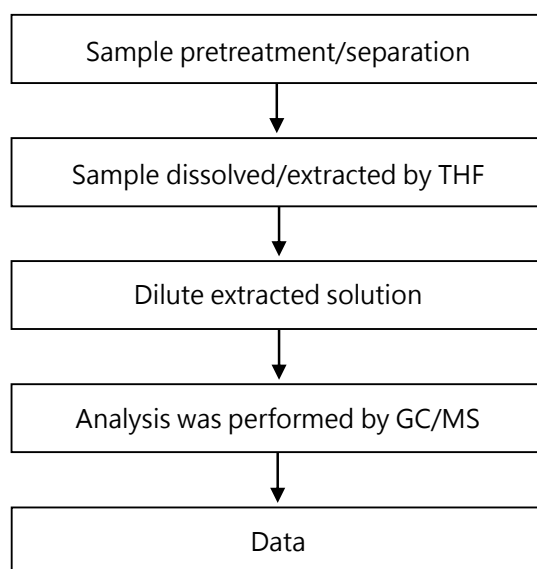


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PALM COMMODITIES INTERNATIONAL LLC
1717 JP HENNESSY DR, LAVERGNE TN 37086

Analytical flow chart - Phthalate

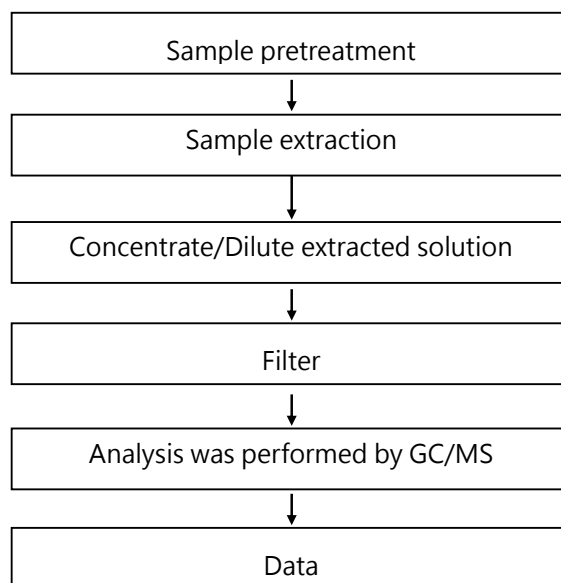
【Test method: IEC 62321-8】



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PALM COMMODITIES INTERNATIONAL LLC
1717 JP HENNESSY DR, LAVERGNE TN 37086

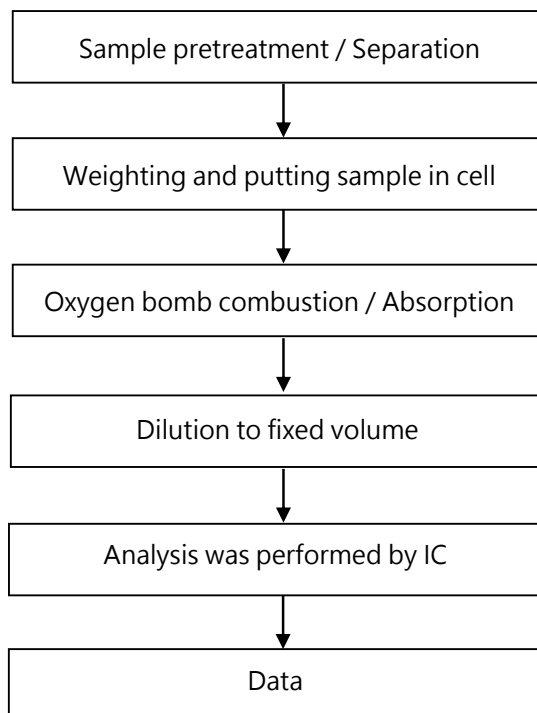
Analytical flow chart - HBCDD



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PALM COMMODITIES INTERNATIONAL LLC
1717 JP HENNESSY DR, LAVERGNE TN 37086

Analytical flow chart - Halogen



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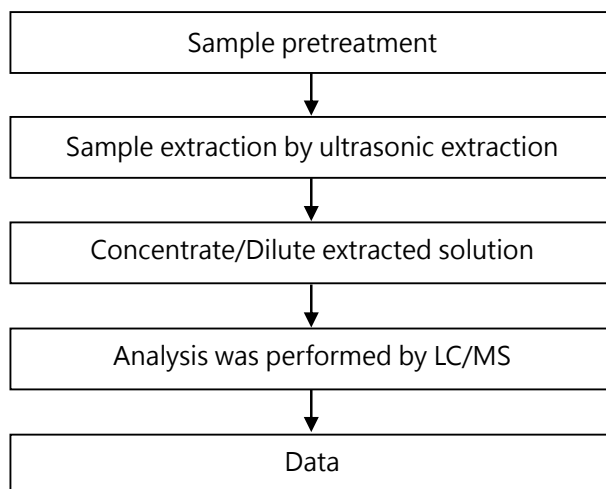
No.: ETR26500522

Date: 13-May-2026

Page: 12 of 20

PALM COMMODITIES INTERNATIONAL LLC
1717 JP HENNESSY DR, LAVERGNE TN 37086

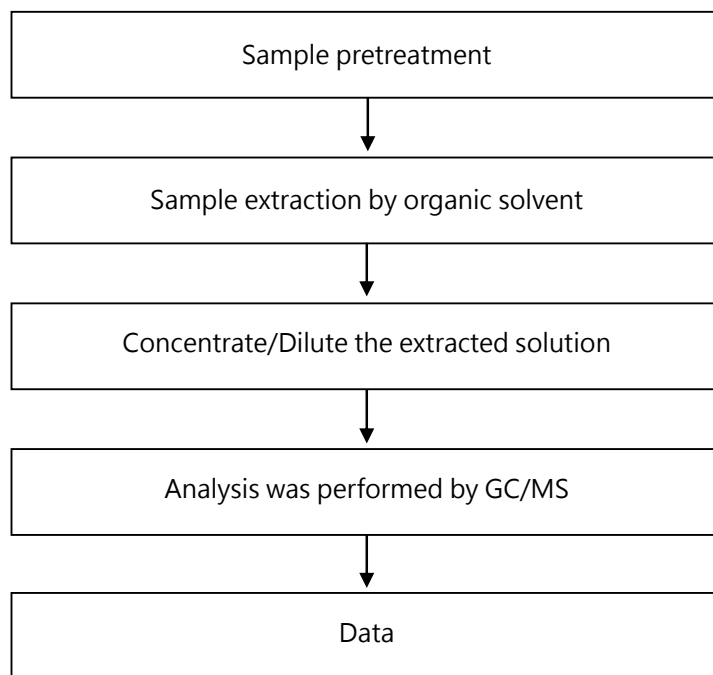
Analytical flow chart - TBBP-A



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Analytical flow chart

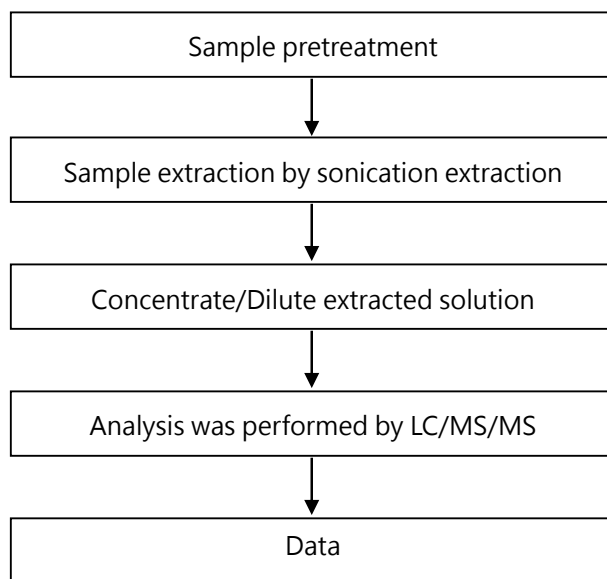
* Apply to: PCBs, PCNs, PCTs, Mirex, Chlorinated Paraffins, DBBT



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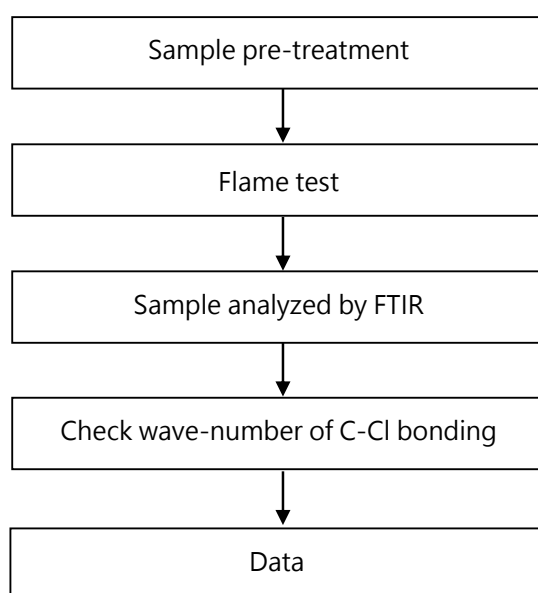
Analytical flow chart - Bisphenol A



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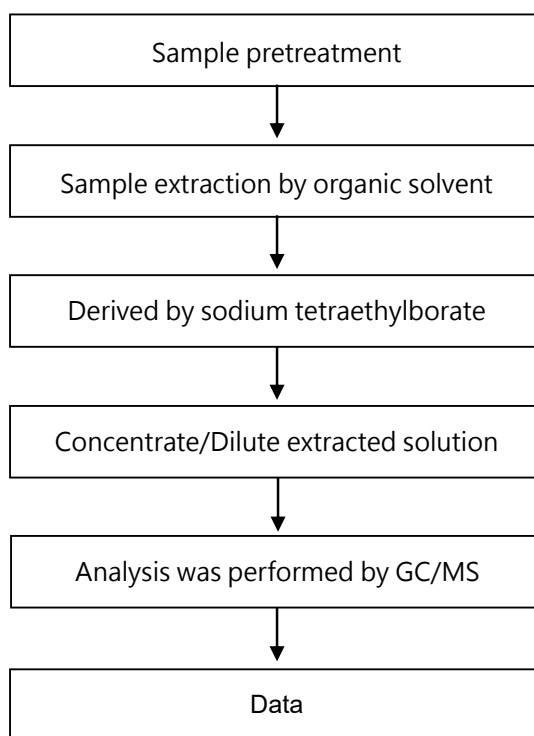
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Analysis flow chart - PVC



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Analytical flow chart - Organic-Tin

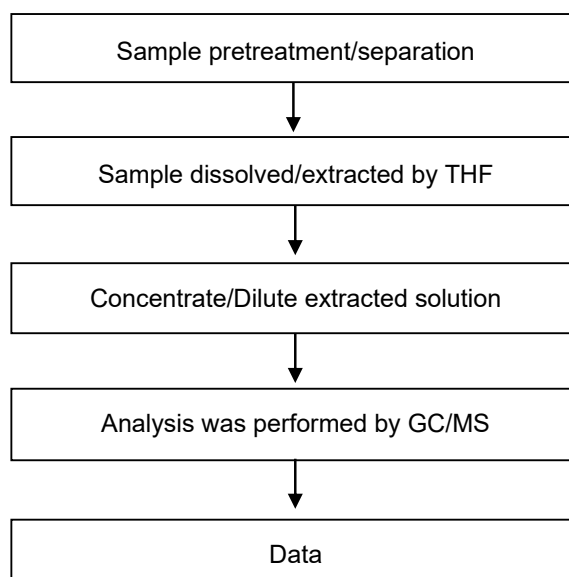


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Analytical flow chart - Phthalate

【Test method: CPSC-CH-C1001-09.4】

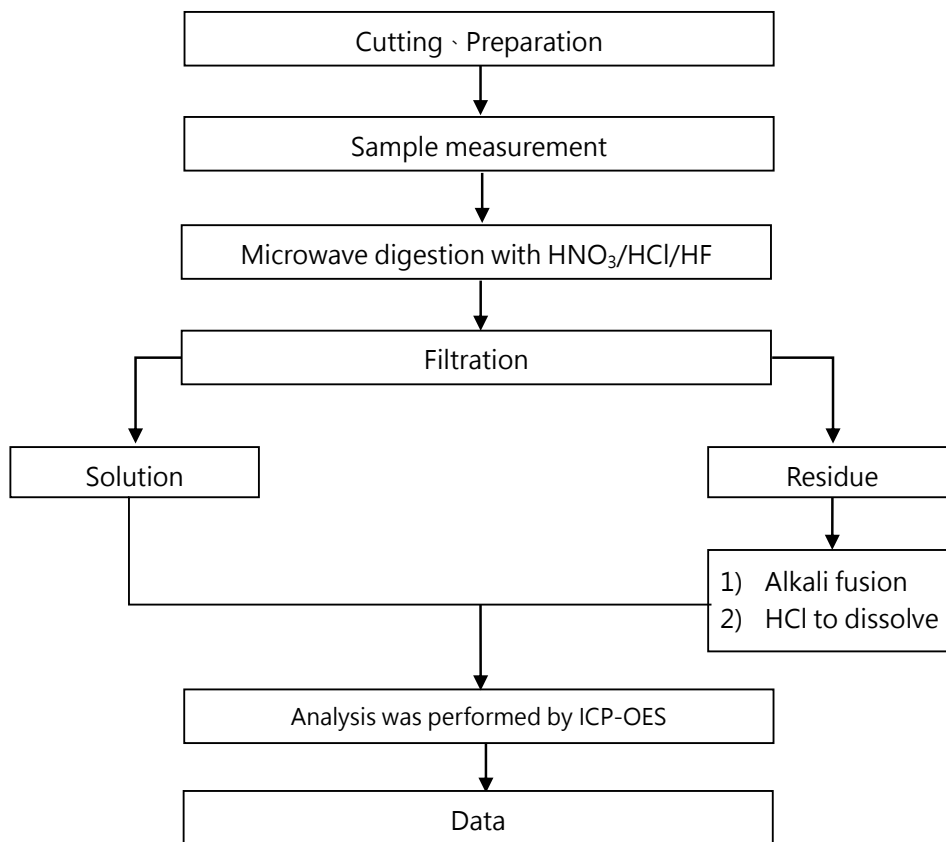


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Analytical flow chart of elements (Heavy metal included)

These samples were dissolved totally by pre-conditioning method according to below flow chart.

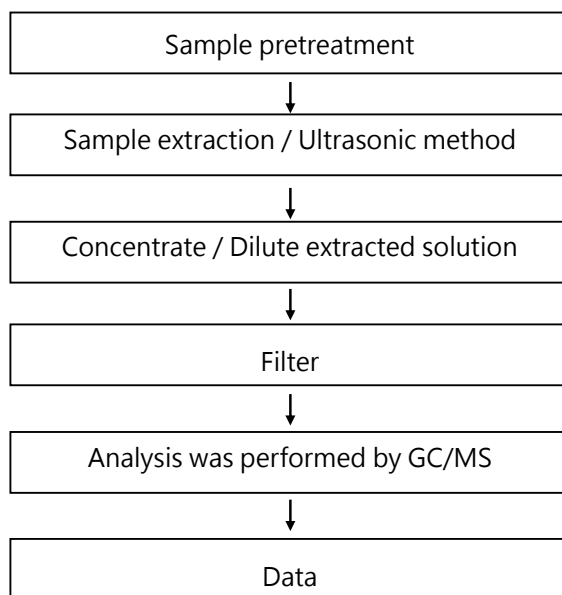
【Reference method : US EPA 3051A 、US EPA 3052】



* US EPA 3051A method does not add HF.

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Analytical flow chart - Persistent, Bioaccumulative, Toxic (PBTs)



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Test Report

No.: ETR26500522

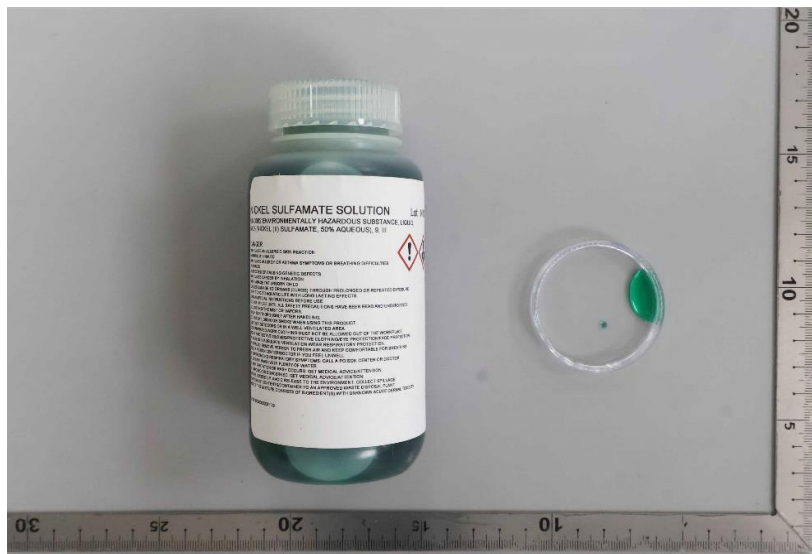
Date: 13-May-2026

Page: 20 of 20

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* The tested sample / part is marked by an arrow if it's shown on the photo. *

ETR26500522



** End of Report **

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