



**BUREAU
VERITAS**

TEST REPORT

Technical Report: (6719)163-0064

June 25, 2019

Date Received: June 12, 2019

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ABS IMPEX

ATTN: MR. SRINIVAS CHOWDARY.P

D.NO.2-1-48 / A, 2ND FLOOR, POORNA MANSION PATHAPURAM ROAD,
KAKINADA-53303, A.P

Sample Description: CONTAINER & INBOX DESICCANTS
(Sample received in good condition)

Color:	/	Batch No.:	/
Order No.:	/	Fiber Content :	/
Item Code:	/	Dpt.:	/
Age Grade:	/	Product End Use:	/
Manufacturer:	/	Retest No.:	/
Vendor:	ABS IMPEX	Reference:	/
Pretesting for (Client Name):	/	Country of Origin:	/
Test Period:	June 12, 2019 to June 17, 2019	Country of Destination:	/

SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION	REMARK
Heavy Metals and Flame Retardants Content – European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment	PASS	
DIMETHYL FUMARATE (DMFU) CONTENT	PASS	

- NOTE: 1.** The test has been conducted as per vendor's request.
2. Confirmation received on dated 24th June 2019.

BUREAU VERITAS CONSUMER PRODUCTS SERVICES (INDIA) PVT. LTD.

SIGNATORIES

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C/N: (6719)163-0064 RS/VS

"Pls. refer the website www.nabl-india.org to view our Scope of accredited Test"

Bureau Veritas Consumer
Products Services (India) Pvt. Ltd.,
C-19, Sec – 7 Noida (U.P.) 201301
PH: 4368283/205

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PHOTO OF THE SUBMITTED SAMPLE





TEST RESULT

Heavy Metals and Flame Retardants Content - European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)

Test Method : With reference to EN 62321: 2009, Annex A

Test Item(s)	Item / Component Description(s)
A	DRYBAG - CONTAINER DESICCANTS
B	DRYGEL - CONTAINER DESICCANTS
C	DRYSAC - CONTAINER DESICCANTS
D	DRYBAG - INBOX DESICCANTS
E	DRYBAG - FRAGRANCE DESICCANTS

See Analytes (Parameter) and their corresponding Maximum Allowable Limit (Req.) in Result Table	Type I	Metallic material
	Type II	Glass or ceramic material
	Type III	Other non-metallic material except Type II

-	Unit	Req.	Result				
Test Item(s)	-	-	A	B	C	D	E
Type	-	III	III	III	III	III	III
Parameter	-	-	-	-	-	-	-
Lead (Pb)	mg/kg	1000	ND	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	100	ND	ND	ND	ND	ND
Mercury (Hg)	mg/kg	1000	ND	ND	ND	ND	ND
Chromium VI (Cr VI)	-	1000	ND	ND	ND	ND	ND
PBBs	mg/kg	1000	ND	ND	ND	ND	ND
MonoBB	mg/kg	-	ND	ND	ND	ND	ND
DiBB	mg/kg	-	ND	ND	ND	ND	ND
TriBB	mg/kg	-	ND	ND	ND	ND	ND
TetraBB	mg/kg	-	ND	ND	ND	ND	ND
PentaBB	mg/kg	-	ND	ND	ND	ND	ND
HexaBB	mg/kg	-	ND	ND	ND	ND	ND
HeptaBB	mg/kg	-	ND	ND	ND	ND	ND
OctaBB	mg/kg	-	ND	ND	ND	ND	ND
NonaBB	mg/kg	-	ND	ND	ND	ND	ND
DecaBB	mg/kg	-	ND	ND	ND	ND	ND
PBDEs	mg/kg	1000	ND	ND	ND	ND	ND
MonoBDE	mg/kg	-	ND	ND	ND	ND	ND
DiBDE	mg/kg	-	ND	ND	ND	ND	ND
TriBDE	mg/kg	-	ND	ND	ND	ND	ND
TetraBDE	mg/kg	-	ND	ND	ND	ND	ND
PentaBDE	mg/kg	-	ND	ND	ND	ND	ND
HexaBDE	mg/kg	-	ND	ND	ND	ND	ND
HeptaBDE	mg/kg	-	ND	ND	ND	ND	ND
OctaBDE	mg/kg	-	ND	ND	ND	ND	ND
NonaBDE	mg/kg	-	ND	ND	ND	ND	ND
DecaBDE	mg/kg	-	ND	ND	ND	ND	ND
Conclusion	-	-	PASS	PASS	PASS	PASS	PASS

Note / Key :

ND = Not detected

NR = Not requested

% = percent

Detection Limit (mg/kg) :

For Type I - Each (Pb, Cd & Hg) : 2.0

For Type II - Each (Pb, Cd, Hg & Cr VI) : 2.0

For Type III - Metal, Polymers & Electronics - Each (Pb, Cd, Hg & Cr VI) : 2.0; Each (PBBs & PBDEs) : 50;

Others - Each (Pb, Cd & Hg) : 2.0; Cr VI : 3.0; Each (PBBs & PBDEs) : 50

">" = Greater than

Req. = Requirement

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

10000 mg/kg = 1 %

Remark :

- The list of analytes is summarized in table of Appendix.

- The test flowchart of heavy metals and flame retardants content is listed in table of Appendix.

**TEST RESULT****DIMETHYL FUMARATE (DMFU) CONTENT****Test Method** : Extraction with organic solvent / GC-MS analysis.**Tested Item(s)** :
A DRYBAG - CONTAINER DESICCANTS
B DRYGEL - CONTAINER DESICCANTS
C DRYSAC - CONTAINER DESICCANTS
D DRYBAG - INBOX DESICCANTS
E DRYBAG - FRAGRANCE DESICCANTS

Limit:	0.1 ppm			
Tested Item(s)	CAS No.	Result	Unit	Conclusion
A	624-49-7	ND	ppm	PASS
B		ND		PASS
C		ND		PASS
D		ND		PASS
E		ND		PASS

Note:

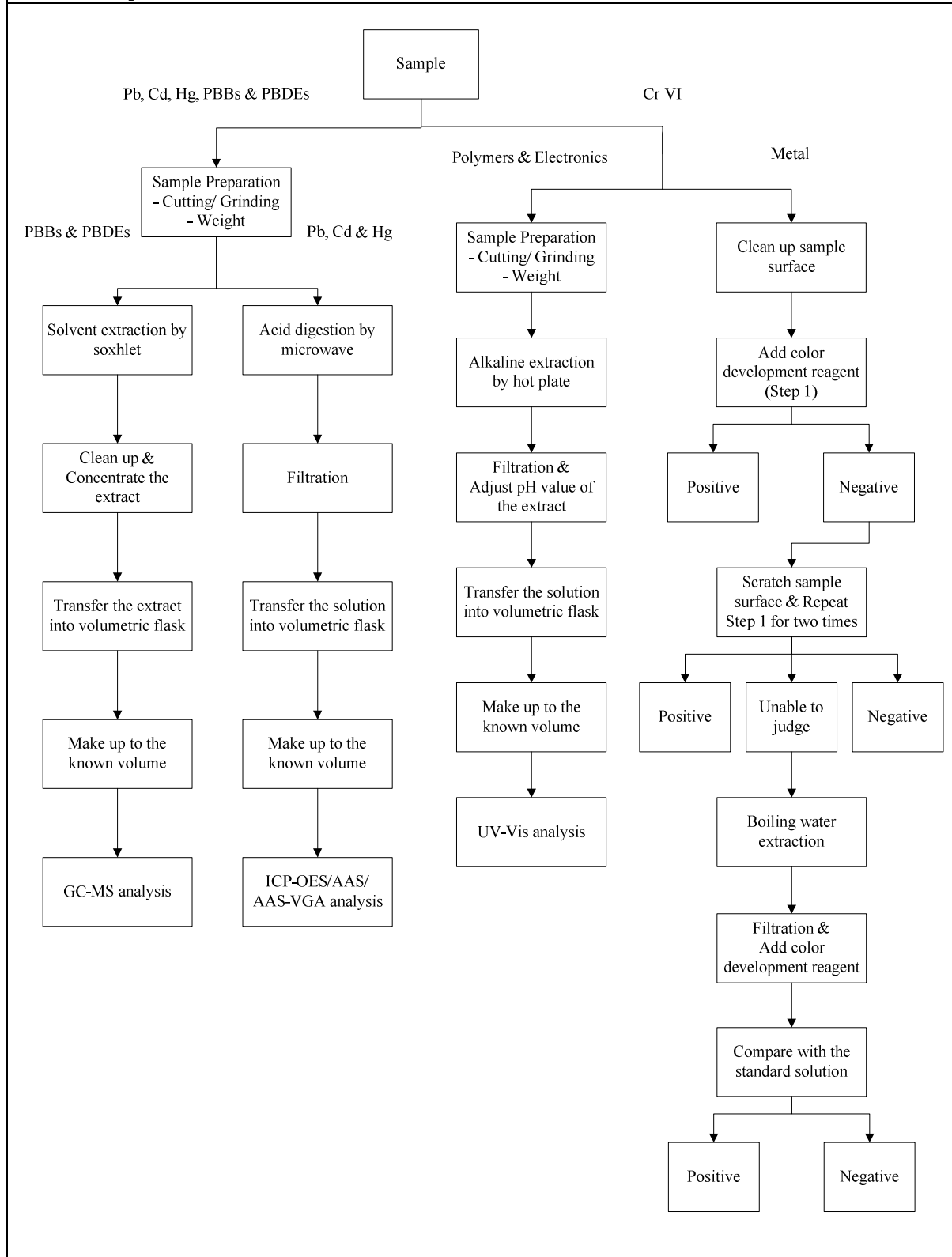
ND = Not detected
mg/kg = milligram per kilogram
Detection Limit (mg/kg): 0.03

“>” = More than

**APPENDIX**

List of Analytes and their Corresponding Test Methods [European Council Directive 2011/65/EU] :		
No.	Name of Analytes	Test Method(s)
1	Lead (Pb)	With reference to EN 62321: 2009, Clauses 8, 9 and 10.
2	Cadmium (Cd)	
3	Mercury (Hg)	
4	Chromium VI (Cr VI)	<u>Metal</u> : With reference to EN 62321: 2009, Annex B ^[a] . <u>Polymers & Electronics</u> : With reference to EN 62321: 2009, Annex C.
5	Polybromobiphenyls (PBBs) - Bromobiphenyl (MonoBB) - Dibromobiphenyl (DiBB) - Tribromobiphenyl (TriBB) - Tetrabromobiphenyl (TetraBB) - Pentabromobiphenyl (PentaBB) - Hexabromobiphenyl (HexaBB) - Heptabromobiphenyl (HeptaBB) - Octabromobiphenyl (OctaBB) - Nonabromobiphenyl (NonaBB) - Decabromobiphenyl (DecaBB)	With reference to EN 62321: 2009, Annex A.
6	Polybromodiphenyl ethers (PBDEs) - Bromodiphenyl ether (MonoBDE) - Dibromodiphenyl ether (DiBDE) - Tribromodiphenyl ether (TriBDE) - Tetrabromodiphenyl ether (TetraBDE) - Pentabromodiphenyl ether (PentaBDE) - Hexabromodiphenyl ether (HexaBDE) - Heptabromodiphenyl ether (HeptaBDE) - Octabromodiphenyl ether (OctaBDE) - Nonabromodiphenyl ether (NonaBDE) - Decabromodiphenyl ether (DecaBDE)	
[a]	The principle of this method was evaluated and supported by two studies organized by IEC TC 111 WG3. These studies were focused on detecting the presence of Cr VI in the corrosion protection coatings on metallic samples.	

Test Flowchart of Heavy Metals and Flame Retardants Content [European Council Directive 2011/65/EU] :



END