



TEST REPORT

Technical Report: (6718)068-0310

March 16, 2018#

Date Received: March 09, 2018

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TRUSH CHEMICALS INDIA PVT. LTD.
ATTN: ANUJ GUPTA
796/1 FIRNI ROAD, MUNKA INDUSTRIAL AREA, MUNCKA DELHI-41

Sample Description: VAPOR DRY DESICCANT
(Sample received in good condition)

Color:	/	Batch No.:	/
Order No.:	DRYING AGENT	Fiber Content :	/
Item Code:	/	Dpt.:	/
Age Grade:	/	Product End Use:	/
Manufacturer:	/	Retest No.:	/
Vendor:	TRUSH CHEMICALS INDIA PVT. LTD.	Reference:	/
Pretesting for (Client Name):	/	Country of Origin:	/
Test Period:	March 09, 2018 to March 16, 2018	Country of Destination:	/

SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION	REMARK
Dimethyl Fumarate (DMFu) Content	PASS	
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	

NOTE: The test has been conducted as per vendor's request.

#Payment confirmation received on dated 16th March 2018.

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

SIGNATORIES

CHHATISH KUMAR NATH
(Dy. Manager – Analytical)

RAHUL SRIVASTAVA
(Manager – Analytical)

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FOR ANY INVOICING MATTER: MR. AMIT ROY
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C/N: (6718)068-0310 RS/RK

"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





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VERITAS**

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TEST RESULT

DIMETHYL FUMARATE (DMFu) CONTENT

Test Method : EC No. 1907/2006 Annex XVII item no. 61/Solvent extraction, GC-MS analysis

Tested Item(s) : A VAPOR DRY DESICCANT

Limit:	<0.1 mg/kg		
Tested Item(s)	Result	Unit	Conclusion
A	ND	mg/kg	PASS

Note:

ND = Not detected “>” = More than
mg/kg = milligram per kilogram
Detection Limit (mg/kg): 0.03



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	VAPOR DRY DESICCANT

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
Type	-	III	III
Parameter	-	-	-
Lead (Pb)	mg/kg	1000	ND
Cadmium (Cd)	mg/kg	100	ND
Mercury (Hg)	mg/kg	1000	ND
Chromium VI (Cr VI)	-	1000	ND
PBBs	mg/kg	1000	ND
MonoBB	mg/kg	-	ND
DiBB	mg/kg	-	ND
TriBB	mg/kg	-	ND
TetraBB	mg/kg	-	ND
PentaBB	mg/kg	-	ND
HexaBB	mg/kg	-	ND
HeptaBB	mg/kg	-	ND
OctaBB	mg/kg	-	ND
NonaBB	mg/kg	-	ND
DecaBB	mg/kg	-	ND
PBDEs	mg/kg	1000	ND
MonoBDE	mg/kg	-	ND
DiBDE	mg/kg	-	ND
TriBDE	mg/kg	-	ND
TetraBDE	mg/kg	-	ND
PentaBDE	mg/kg	-	ND
HexaBDE	mg/kg	-	ND
HeptaBDE	mg/kg	-	ND
OctaBDE	mg/kg	-	ND
NonaBDE	mg/kg	-	ND
DecaBDE	mg/kg	-	ND
Conclusion	-	-	PASS

Note / Key :

ND = Not detected

">" = Greater than

Req. = Requirement

NR = Not requested

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

% = percent

10000 mg/kg = 1 %

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

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.

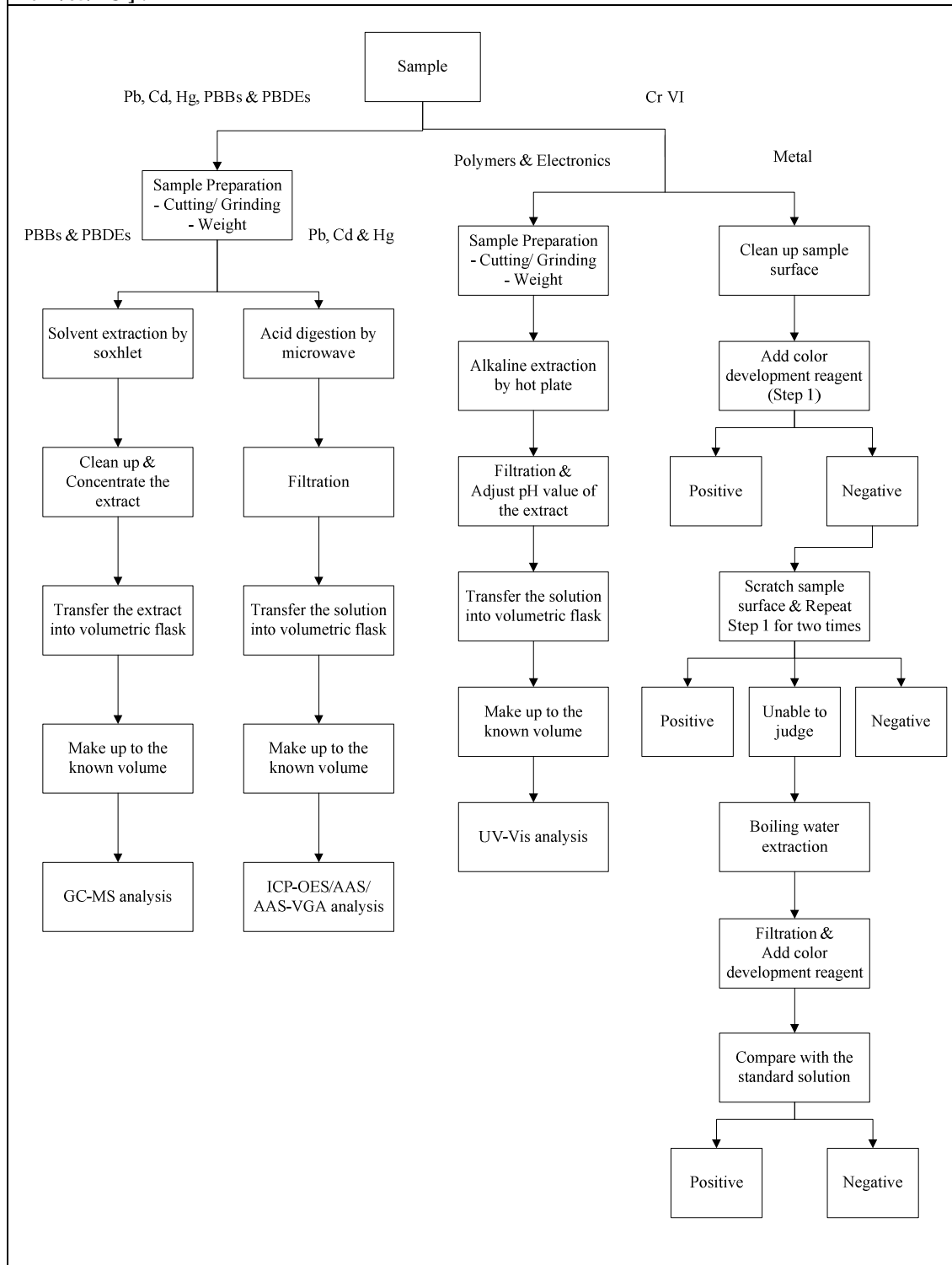


APPENDIX

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.	



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



...END...