

Report No.: MAN:HL:1448000743

ISSUE DATE: 14th January, 2023

HITECH INTERNATIONAL

PLOT NO. 18 SECTOR 6 IMT MANESAR

INDIA

CONTACT PERSON: ISHAN SIKKA

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS:

SAMPLE DESCRIPTION DR. BIO COMPOSTABLE BAG

COLOUR WHITE COUNTRY OF DESTINATION INDIA **COUNTRY OF ORIGIN INDIA**

CONDITION OF SAMPLE COMPLETE AND OK

THE LOCATION OF PERFORMANCE OF THE LABORATORY ACTIVITIES: SGS GURUGRAM LABORATORY

LAB PROVIDED DETAILS:

SAMPLE RECD ON 06/02/2023

TEST PERFORMING DATE 06/02/2023 TO 14/02/2023

SUMMARY OF TEST RESULT:

TEST REQUESTED	CONCLUSION		
	Based on the performed tests on submitted sample(s) the results of		
	Cadmium, Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls		
DONE	(PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as		
ROHS	Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl		
	phthalate (DBP) and Diisobutyl phthalate (DIBP) comply with the limits as set		
	by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU		

TEST(S) RESULT & METHOD: PLEASE REFER TO NEXT PAGE(S). RESULTS APPLY TO THE SAMPLE AS RECEIVED

Per Pro SGS India Pvt. Ltd.

SANDIP BHUSHAN (Technical Manager)

Authorized Signatory

Email your Test Report Related Enquiries at Feedback.HLT@sgs.com

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Test Part Description:

Product No.	Sample No.	Material Description	Remarks
1	1	DR. BIO COMPOSTABLE BAG (WHITE PART)	

Remarks:

- (1) 1mg/kg=0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (<MDL)
- (4) = not regulated

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

Test Method:

- (1) With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
- (2) With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
- (3) With reference to IEC 62321-4:2013+A1:2017, determination of Mercury by ICP-OES.
- (4) With reference to IEC 62321-7-2:2017, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis and/or with reference to IEC 62321-5:2013, determination of Chromium by ICP-OES.
- (5) With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.
- (6) With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.

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Test Results:

Lead (Pb) mg/kg n.d. 5 1 Mercury (Hg) mg/kg n.d. 5 1 Hexavalent Chromium (CrVI) mg/kg n.d. 8 1 Sum of PBBs mg/kg n.d. - 1 Monobromobiphenyl mg/kg n.d. 50 Dibromobiphenyl mg/kg n.d. 50 Tribromobiphenyl mg/kg n.d. 50 Tetrabromobiphenyl mg/kg n.d. 50 Hexabromobiphenyl mg/kg n.d. 50 Pentabromobiphenyl mg/kg n.d. 50 Heptabromobiphenyl mg/kg n.d. 50 Heptabromobiphenyl mg/kg n.d. 50 Octabromobiphenyl mg/kg n.d. 50 Nonabromobiphenyl mg/kg n.d. 50 Decabromobiphenyl mg/kg n.d. 50 Sum of PBDEs mg/kg n.d. 50 Sum of PBDEs mg/kg n.d. <th>Test Item(s):</th> <th>Unit</th> <th>Results</th> <th>MDL</th> <th>Limit</th>	Test Item(s):	Unit	Results	MDL	Limit
Mercury (Hg) mg/kg n.d. 5 1 Hexavalent Chromium (CrVI) mg/kg n.d. 8 1 Sum of PBBs mg/kg n.d. 50 1 Monobromobiphenyl mg/kg n.d. 50 1 Dibromobiphenyl mg/kg n.d. 50 1 Tribromobiphenyl mg/kg n.d. 50 1 Tetrabromobiphenyl mg/kg n.d. 50 1 Hexabromobiphenyl mg/kg n.d. 50 1 Heptabromobiphenyl mg/kg n.d. 50 1 Heptabromobiphenyl mg/kg n.d. 50 1 Heptabromobiphenyl mg/kg n.d. 50 1 Octabromobiphenyl mg/kg n.d. 50 1 Nonabromobiphenyl mg/kg n.d. 50 1 Decabromobiphenyl mg/kg n.d. 50 1 Sum of PBDEs mg/kg n.d. 50 <th< td=""><td>Cadmium(Cd)</td><td>mg/kg</td><td>n.d.</td><td>5</td><td>100</td></th<>	Cadmium(Cd)	mg/kg	n.d.	5	100
Hexavalent Chromium (CrVI) mg/kg n.d. 8 1	Lead (Pb)	mg/kg	n.d.	5	1000
Sum of PBBs mg/kg n.d. - 1 Monobromobiphenyl mg/kg n.d. 50 Dibromobiphenyl mg/kg n.d. 50 Tribromobiphenyl mg/kg n.d. 50 Tetrabromobiphenyl mg/kg n.d. 50 Hexabromobiphenyl mg/kg n.d. 50 Pentabromobiphenyl mg/kg n.d. 50 Heptabromobiphenyl mg/kg n.d. 50 Heptabromobiphenyl mg/kg n.d. 50 Octabromobiphenyl mg/kg n.d. 50 Nonabromobiphenyl mg/kg n.d. 50 Decabromobiphenyl mg/kg n.d. 50 Sum of PBDEs mg/kg n.d. 50 Sum of PBDEs mg/kg n.d. 50 Sum of PBDEs mg/kg n.d. 50 Dibromodiphenyl ether mg/kg n.d. 50 Tribromodiphenyl ether mg/kg n.d. 50	Mercury (Hg)	mg/kg	n.d.	5	1000
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Dibutyl phthalate (DBP) mg/kg n.d. 100 1 Butyl benzyl phthalate (BBP) mg/kg n.d. 100 1	Nonabromodiphenyl ether	mg/kg	n.d.		-
Butyl benzyl phthalate (BBP) mg/kg n.d. 100 1	Decabromodiphenyl ether	mg/kg	n.d.	50	-
- my - man (- my - m	Dibutyl phthalate (DBP)	mg/kg	n.d.	100	1000
Pio (2 othylhovyl) whtholeta (DEUD) mg/kg m d 100 1	Butyl benzyl phthalate (BBP)	mg/kg	n.d.	100	1000
bis (2-ethylnexyl) phihalate (DEHP) hig/kg h.d. 100 h	Bis (2-ethylhexyl) phthalate (DEHP)	mg/kg	n.d.	100	1000
Diisobutyl Phthalates (DIBP) mg/kg n.d. 100 1	Diisobutyl Phthalates (DIBP)	mg/kg	n.d.	100	1000

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Notes:

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

(2) IEC 62321 series is equivalent to EN 62321 series. https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP ORG ID,FSP LANG ID:1258637,25

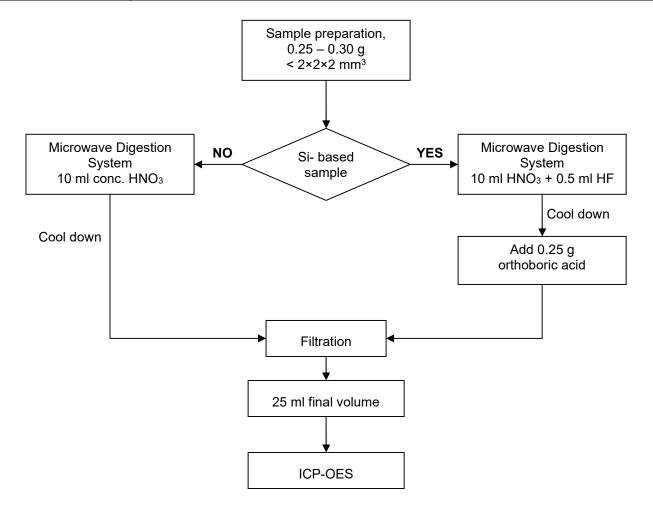
- (3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.
- (4) Testing has been subcontracted to SGS Gurugram lab.
- (5) Testing has been performed as per customer request.

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Process Flow for analysis of metal contents in plastics, metals and electronic components sample



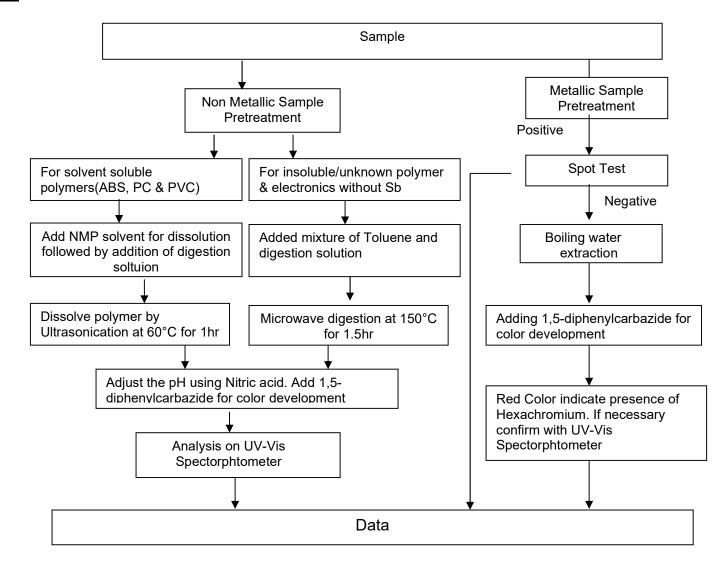
Analyzed By: Mahesh Panday Checked By: MD.Taqi

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Process Flow for analysis of Hexachromium contents in plastics, metals and electronic components sample



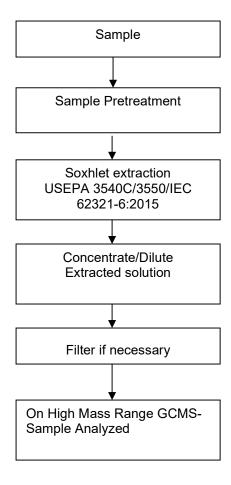
Analyzed By: Rishab Suri Checked By: Bikram Deo Ohdar

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Process Flow for analysis of Flame Retardants in plastics, metals and electronic components sample



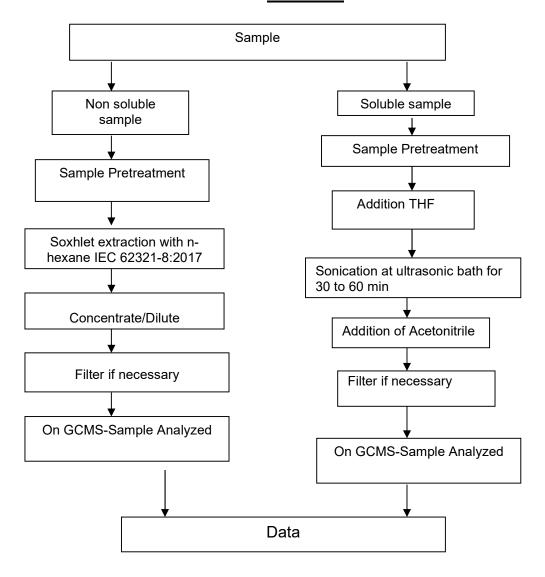
Analyzed By: Parvez Alam Siddiqui Checked By: Vijai Chauhan

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Process Flow for analysis of Phthalates in Electrotechnical Product As per soxhelt Extraction or THF **Extraction:**



Analyzed By: Parvez Alam Siddiqui

JOE No.: 2348800397

Checked By: Vijai Chauhan

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Connectivity and Products, Testing Laboratory, Plot no. 21, Sector 3, IMT Manesar, Gurugram District, Haryana- 122050 (India) t: (+91-124 678 7600

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***** END OF REPORT*****

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