

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
ROHS	(PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as
	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   1000	Test Item(s):	Unit	Results	MDL	Limit
Mercury (Hg)         mg/kg         n.d.         5         1000           Hexavalent Chromium (CrVI)         mg/kg         n.d.         8         1000           Sum of PBBs         mg/kg         n.d.         50         -           Dibromobiphenyl         mg/kg         n.d.         50         -           Dibromobiphenyl         mg/kg         n.d.         50         -           Tribromobiphenyl         mg/kg         n.d.         50         -           Tetrabromobiphenyl         mg/kg         n.d.         50         -           Pentabromobiphenyl         mg/kg         n.d.         50         -           Hexabromobiphenyl         mg/kg         n.d.         50         -           Pentabromobiphenyl         mg/kg         n.d.         50         -           Hepatbromobiphenyl         mg/kg         n.d.         50         -           Hepatbromobiphenyl         mg/kg         n.d.         50         -           Octabromobiphenyl         mg/kg         n.d.         50         -           Sum of PBDEs         mg/kg         n.d.         50         -           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   1000	Lead (Pb)	mg/kg	n.d.	5	1000
Monobromobiphenyl   mg/kg   n.d.   50   -	Mercury (Hg)	mg/kg	n.d.	5	1000
Monobromobiphenyl   mg/kg   n.d.   50   -	Hexavalent Chromium (CrVI)	mg/kg	n.d.	8	1000
Dibromobiphenyl   mg/kg   n.d.   50   -	Sum of PBBs	mg/kg	n.d.	-	1000
Tribromobiphenyl   mg/kg   n.d.   50   -	Monobromobiphenyl	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 -  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 -  Tribromodiphenyl ether mg/kg n.d. 50 -  Dibromodiphenyl ether mg/kg n.d. 50 -  Tetrabromodiphenyl ether mg/kg n.d. 50 -  Hexabromodiphenyl ether mg/kg n.d. 50 -  Pentabromodiphenyl ether mg/kg n.d. 50 -  Tetrabromodiphenyl ether mg/kg n.d. 50 -  Pentabromodiphenyl ether mg/kg n.d. 50 -  Decabromodiphenyl ether mg/kg n.d. 50 -  Hexabromodiphenyl ether mg/kg n.d. 50 -  Decabromodiphenyl ether mg/kg n.d. 100 1000 1000 1000 1000 1000 1000 10	Dibromobiphenyl	mg/kg	n.d.	50	-
Hexabromobiphenyl   mg/kg   n.d.   50   -	Tribromobiphenyl	mg/kg	n.d.	50	-
Pentabromobiphenyl         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         -           T	Tetrabromobiphenyl	mg/kg	n.d.		-
Heptabromobiphenyl	Hexabromobiphenyl	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.         -         1000           Monobromodiphenyl ether         mg/kg         n.d.         50         -           Dibromodiphenyl ether         mg/kg         n.d.         50         -           Tribromodiphenyl ether         mg/kg         n.d.         50         -           Tetrabromodiphenyl ether         mg/kg         n.d.         50         -           Pentabromodiphenyl ether         mg/kg         n.d.         50         -           Hexabromodiphenyl ether         mg/kg         n.d.         50         -           Heptabromodiphenyl ether         mg/kg         n.d.         50         -           Octabromodiphenyl ether         mg/kg         n.d.         50         -           Nonabromodiphenyl ether         mg/kg         n.d.         50         -           Decabromodiphenyl ether         mg/kg         n.d.         50         -           Decabromodiphenyl ether	Pentabromobiphenyl	mg/kg	n.d.	50	-
Nonabromobiphenyl   mg/kg   n.d.   50   -	Heptabromobiphenyl	mg/kg	n.d.	50	-
Decabromobiphenyl         mg/kg         n.d.         50         -           Sum of PBDEs         mg/kg         n.d.         -         1000           Monobromodiphenyl ether         mg/kg         n.d.         50         -           Dibromodiphenyl ether         mg/kg         n.d.         50         -           Tribromodiphenyl ether         mg/kg         n.d.         50         -           Tetrabromodiphenyl ether         mg/kg         n.d.         50         -           Pentabromodiphenyl ether         mg/kg         n.d.         50         -           Hexabromodiphenyl ether         mg/kg         n.d.         50         -           Heptabromodiphenyl ether         mg/kg         n.d.         50         -           Octabromodiphenyl ether         mg/kg         n.d.         50         -           Nonabromodiphenyl ether         mg/kg         n.d.         50         -           Decabromodiphenyl ethe	Octabromobiphenyl	mg/kg	n.d.		-
Sum of PBDEs         mg/kg         n.d.         -         1000           Monobromodiphenyl ether         mg/kg         n.d.         50         -           Dibromodiphenyl ether         mg/kg         n.d.         50         -           Tribromodiphenyl ether         mg/kg         n.d.         50         -           Tetrabromodiphenyl ether         mg/kg         n.d.         50         -           Pentabromodiphenyl ether         mg/kg         n.d.         50         -           Hexabromodiphenyl ether         mg/kg         n.d.         50         -           Heptabromodiphenyl ether         mg/kg         n.d.         50         -           Octabromodiphenyl ether         mg/kg         n.d.         50         -           Nonabromodiphenyl ether         mg/kg         n.d.         50         -           Decabromodiphenyl ether         mg/kg         n.d.         50         -           Dibutyl phthalat	Nonabromobiphenyl	mg/kg	n.d.	50	-
Monobromodiphenyl ether         mg/kg         n.d.         50         -           Dibromodiphenyl ether         mg/kg         n.d.         50         -           Tribromodiphenyl ether         mg/kg         n.d.         50         -           Tetrabromodiphenyl ether         mg/kg         n.d.         50         -           Pentabromodiphenyl ether         mg/kg         n.d.         50         -           Hexabromodiphenyl ether         mg/kg         n.d.         50         -           Heptabromodiphenyl ether         mg/kg         n.d.         50         -           Octabromodiphenyl ether         mg/kg         n.d.         50         -           Nonabromodiphenyl ether         mg/kg         n.d.         50         -           Decabromodiphenyl ether         mg/kg         n.d.         50         -           Dibutyl phthalate (DBP)         mg/kg         n.d.         100         1000           Butyl benzyl phthalate (BBP)         mg/kg         n.d.         100         1000           Bis (2-ethylhexyl) phthalate (DEHP)         mg/kg         n.d.         100         1000	Decabromobiphenyl	mg/kg	n.d.	50	-
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Tetrabromodiphenyl ether mg/kg n.d. 50 - Pentabromodiphenyl ether mg/kg n.d. 50 - Hexabromodiphenyl ether mg/kg n.d. 50 - Heptabromodiphenyl ether mg/kg n.d. 50 - Heptabromodiphenyl ether mg/kg n.d. 50 - Octabromodiphenyl ether mg/kg n.d. 50 - Nonabromodiphenyl ether mg/kg n.d. 50 - Decabromodiphenyl ether mg/kg n.d. 50 - Dibutyl phthalate (DBP) mg/kg n.d. 100 1000 Butyl benzyl phthalate (BBP) mg/kg n.d. 100 1000 Bis (2-ethylhexyl) phthalate (DEHP) mg/kg n.d. 100 1000	Dibromodiphenyl ether	mg/kg	n.d.		-
Pentabromodiphenyl ether mg/kg n.d. 50 - Hexabromodiphenyl ether mg/kg n.d. 50 - Heptabromodiphenyl ether mg/kg n.d. 50 - Octabromodiphenyl ether mg/kg n.d. 50 - Octabromodiphenyl ether mg/kg n.d. 50 - Nonabromodiphenyl ether mg/kg n.d. 50 - Decabromodiphenyl ether mg/kg n.d. 50 - Dibutyl phthalate (DBP) mg/kg n.d. 100 1000 Butyl benzyl phthalate (BBP) mg/kg n.d. 100 1000 Bis (2-ethylhexyl) phthalate (DEHP) mg/kg n.d. 100 1000	Tribromodiphenyl ether	mg/kg	n.d.	50	-
Hexabromodiphenyl ether mg/kg n.d. 50 - Heptabromodiphenyl ether mg/kg n.d. 50 - Octabromodiphenyl ether mg/kg n.d. 50 - Nonabromodiphenyl ether mg/kg n.d. 50 - Nonabromodiphenyl ether mg/kg n.d. 50 - Decabromodiphenyl ether mg/kg n.d. 50 - Dibutyl phthalate (DBP) mg/kg n.d. 100 1000 Butyl benzyl phthalate (BBP) mg/kg n.d. 100 1000 Bis (2-ethylhexyl) phthalate (DEHP) mg/kg n.d. 100 1000	Tetrabromodiphenyl ether	mg/kg	n.d.	50	-
Heptabromodiphenyl ether   mg/kg   n.d.   50   -	Pentabromodiphenyl ether	mg/kg	n.d.	50	-
Octabromodiphenyl ether         mg/kg         n.d.         50         -           Nonabromodiphenyl ether         mg/kg         n.d.         50         -           Decabromodiphenyl ether         mg/kg         n.d.         50         -           Dibutyl phthalate (DBP)         mg/kg         n.d.         100         1000           Butyl benzyl phthalate (BBP)         mg/kg         n.d.         100         1000           Bis (2-ethylhexyl) phthalate (DEHP)         mg/kg         n.d.         100         1000	Hexabromodiphenyl ether	mg/kg	n.d.		-
Nonabromodiphenyl ether         mg/kg         n.d.         50         -           Decabromodiphenyl ether         mg/kg         n.d.         50         -           Dibutyl phthalate (DBP)         mg/kg         n.d.         100         1000           Butyl benzyl phthalate (BBP)         mg/kg         n.d.         100         1000           Bis (2-ethylhexyl) phthalate (DEHP)         mg/kg         n.d.         100         1000	Heptabromodiphenyl ether	mg/kg	n.d.	50	-
Decabromodiphenyl ether         mg/kg         n.d.         50         -           Dibutyl phthalate (DBP)         mg/kg         n.d.         100         1000           Butyl benzyl phthalate (BBP)         mg/kg         n.d.         100         1000           Bis (2-ethylhexyl) phthalate (DEHP)         mg/kg         n.d.         100         1000	Octabromodiphenyl ether	mg/kg	n.d.		-
Dibutyl phthalate (DBP)         mg/kg         n.d.         100         1000           Butyl benzyl phthalate (BBP)         mg/kg         n.d.         100         1000           Bis (2-ethylhexyl) phthalate (DEHP)         mg/kg         n.d.         100         1000	Nonabromodiphenyl ether	mg/kg	n.d.		-
Butyl benzyl phthalate (BBP) mg/kg n.d. 100 1000  Bis (2-ethylhexyl) phthalate (DEHP) mg/kg n.d. 100 1000	Decabromodiphenyl ether	mg/kg	n.d.	50	-
Bis (2-ethylhexyl) phthalate (DEHP) mg/kg n.d. 100 1000	Dibutyl phthalate (DBP)	mg/kg	n.d.	100	1000
inging inter-	Butyl benzyl phthalate (BBP)	mg/kg	n.d.	100	1000
Diisobutyl Phthalates (DIBP) mg/kg n.d. 100 1000	Bis (2-ethylhexyl) phthalate (DEHP)	mg/kg	n.d.	100	1000
	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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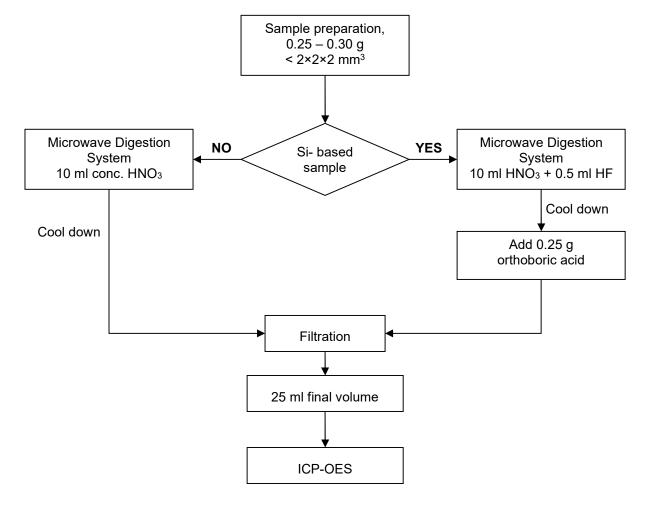
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# Process Flow for analysis of metal contents in plastics, metals and electronic components sample



Analyzed By: Mahesh Panday Checked By: MD.Taqi

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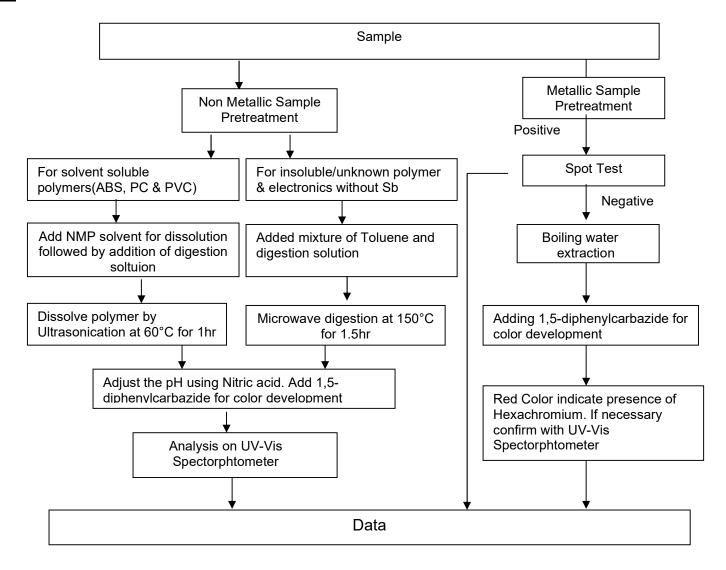
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# Process Flow for analysis of Hexachromium contents in plastics, metals and electronic components sample



Analyzed By: Rishab Suri Checked By: Bikram Deo Ohdar

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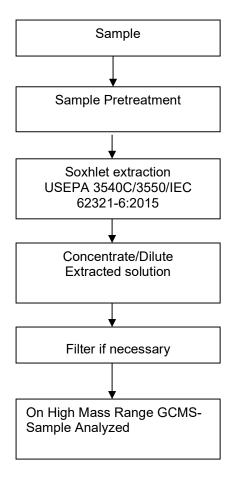
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SGS India Pvt. Ltd



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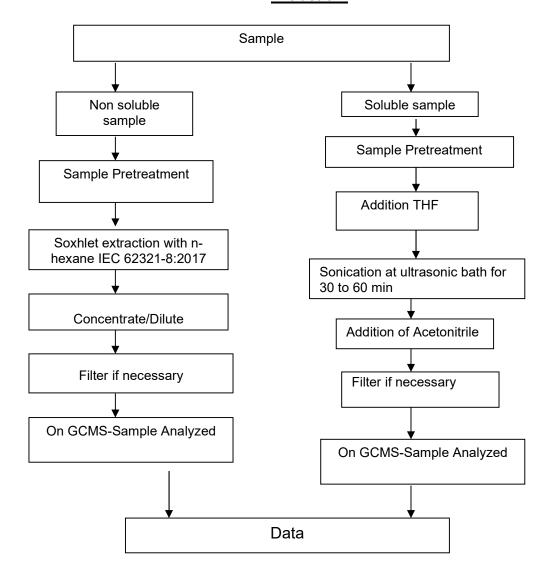
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# Process Flow for analysis of Phthalates in Electrotechnical Product As per soxhelt Extraction or THF **Extraction:**



Analyzed By: Parvez Alam Siddiqui Checked By: Vijai Chauhan

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