







Manufactured by:
RAAS KUTTIMALA, KARULAI
Malappuram-679330
Reg No: 32LFOPK1847R1ZJ

100% Natural Product

MADE FROM 100%
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NATURAL RESOURCE









#### **Test Report**

Report No: TUV(I)/503/22-23/9052210353 Part A

Date: 13 June 2022

**TUV INDIA PRIVATE LIMITED** 

**TUV Nord Group** No.8. VK Commerce, II Floor, III Main Road, Opp. KSSIDC, IT Park, Rajajinagar, Industrial Estate, Bangalore - 560 010. India. CIN: U74140MH1989PTC052930

Phone : 080 - 40823000

Name and address of

customer

Toll Free: 1800-209-0902
Tamil Nadu Newsprint and Papers Little United ballabindia@tuv-nord.com

(A Government of Tamil Nadu Enterprise) Website: www.tuv-nord.com/in

Mondipatti, K. Periyapatti Post,

Manapparai Taluk, Tiruchirappalli Dist, Tamilnadu-621306.

Name of the sample

Solid Bleached Sulphate Board

Batch Code

Batch Code: AFT, AFT-B1, AFS, ALP, ASN

CA No.

9052210353

Date of sample receipt

12 May 2022

Date(s) of analysis

12 May 2022 - 13 June 2022

Discipline

Chemical

Objectives Of Examination

1.To test for compliance with US FDA 21.CFR.176.170 -

Chloroform - soluble extractive residues test.

Sample drawn by

Customer

Test Requested

Selected test(s) as requested by client.

Result Summary

**Test Requested** Conclusion 1.US FDA 21.CFR.176.170 -Chloroform - soluble extractive residues **PASS** test

Page 1 of 3



Date: 13 June 2022

## 1.US FDA 21.CFR.176.170 - Chloroform - soluble extractive residues test

Sr. No.	Total Extractive Test Using Simulants	Temperature & Condition	Result	Unit	LOQ	Limits as per US FDA 21.CFR.176.170	Test Method
1	Distilled Water	120 °F-24hr	< LOQ	mg/inch <sup>2</sup>	0.25	0.5	
2	8 % Ethanol	120 °F-24hr	< LOQ	mg/inch <sup>2</sup>	0.25	0.5	Based on TUVB/02/SOP/27
3	50 % Ethanol	120 °F-24hr	< LOQ	mg/inch <sup>2</sup>	0.25	0.5	USFDA 21.CFR.176.170
4	n - Heptane	70 °F- 0.5hr	< LOQ	mg/inch <sup>2</sup>	0.25	0.5	

### Note:

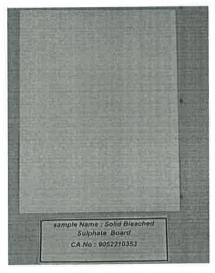
- 1) Sample Complies with US.FDA 21.CFR.176.170 for above tested parameters.
- 2) Sample kept in contact with Simulants above test condition.
  3) Limits are as per USFDA 21.CFR.176.170
  4) LOQ: Limit of Quantification

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Date: 13 June 2022



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Authorized by

RaghuRam Semmalai Assistant Manager – Material Testing Services

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- 10. For Pesticide Residue analysis, reported value at LOQ level may vary within analytical variation of 50% considering Uncertainty of Measurement.

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**End of Report** 





## **Test Report**

Report No: TUV(I)/503/22-23/9052210353 Part C

Date: 13 June 2022

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Email : foodlabindia@tuv-nord.com

CIN: U74140MH1989PTC052930

Website: www.tuv-nord.com/in

Name and address of customer

Tamil Nadu Newsprint and Papers Limited - Unit II

(A Governmen of Tamil Nadu Enterprise) Mondipatti, K. Periyappatti Post,

Manapparai Taluk, Tiruchirappali District, Tamil Nadu - 621306

Tiruchirappali, Tamil Nadu

621306

Name of the sample

Solid Bleached Sulphate Board

Batch Code :

Batch Code: AFT, AFT-B1, AFS, ALP, ASN

CA No.

9052210353

Date of sample receipt

12-May-2022

Date(s) of analysis

12 May 2022 - 13 June 2022

To test for compliance with BFR XXXVI regulation & EC No: 1907/2006.

1) Heavy metal

2) Specific Migration of Phthalates3) Monochloropropanediol (MCPD)

4) Dichloropropanol (DCP)

5) Specific Migration of Primary Aromatic Amines

6) Azo Dyes

Objectives Of Examination

7) Specific Migration of Glyoxal

8) Optical Brightners

9) Nonyl Phenol Ethoxylate (NPEO)

10) Acrylamide

11) Anti Microbial Substances

12) Specific Migration of Bisphenol A

13) Specific Migration of Dimethylamine

Test Requested

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Selected test(s) as requested by Customer

Sample drawn by

:

Customer

Conclusion

:

The submitted sample To test for BFR XXXVI Regulation, EC No: 1907/2006

For detail Test Results refer further pages

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Page 1 of 6



1) Heavy n	1) Heavy metal test							
Sr. No.	Name of Test	Result	Unit	LOQ	Limits as per BfR XXXVI	Test Method		
1.1	Lead (Pb)	< LOQ	mg/kg	0.1	Max 3			
1.2	Cadmium (Cd)	<loq< td=""><td>mg/kg</td><td>0.1</td><td>Max 0.5</td><td>Based on EN-647</td></loq<>	mg/kg	0.1	Max 0.5	Based on EN-647		
						Determined by ICP-OES		

mg/kg

mg/kg

0.1

0.1

Max 0.3

Not Detectable

Note: The sample Complies above test parameter as per BfR XXXVI Regulation.

< LOQ

<LOQ

LOQ: Limit of Quantification

1.3

1.4

## 2) Specific Migration of Phthalates

Mercury (Hg)

Chromium (VI)

Sr. No.	Name of Test Parameter	Result	Unit	LOQ	Limits as per BfR XXXVI	Test Method
2.1	Diethylhexyl phthalate	< LOQ	mg/kg	0.1	Max 1.5	
2.2	Di-n-butyl phthalate	< LOQ	mg/kg	0.1	Max 0.3	Method based on
2.3	Diisobutyl phthalate	< LOQ	mg/kg	0.1	Max 0.3	BS EN 13130 (P1) 2004) by GC-MS
2.4	The sum of Di-n-butyl phthalate & Diisobutyl phthalate	<loq< td=""><td>mg/kg</td><td>0.1</td><td>Max 0.3</td><td>e, co-me</td></loq<>	mg/kg	0.1	Max 0.3	e, co-me

The sample Complies above test parameter as per BfR XXXVI Regulation.Limits as per the BfR XXXVI Regulation LOQ: Limit of Quantification







3) Monochl	oropropanediol (MCPD)					
Sr. No.	Name of Test	Result	Unit	LOQ	Limits as per BfR XXXVI	Test Method
3.1	Monochloropropanediol (MCPD)	< LOQ	μg/kg	10	12.00	Determined by GC-MSMS
The sample	Complies above test parameter	as per BfR XXXV	/I Regulation.			

LOQ: Limit of Quantification

### 4) Dichloropropanol (DCP)

Sr. No.	Name of Test	Result	Unit	LOD/LOQ	Limits as per Standard	Test Method
4.1	Dichloropropanol (DCP)	Not Detected	mg/kg	0.01	Not Detectable	Determined by GC-MSMS

The sample Complies above test parameter as per BfR XXXVI Regulation.Limits as per the BfR XXXVI Regulation LOQ: Limit of Quantification

# 5) Specific Migration of Primary Aromatic Amines

Sr. No.	Name of Test	Result	Unit	Detection Limit	Limits as per Standard	Test Method
5.1	Specific Migration of Primary Aromatic Amines	Not Detected	mg/kg	0.01	0.01	Method based on BS EN 13130(P1) 2004) Determined by GC MSMS

The sample Complies above test parameter as per BfR XXXVI Regulation.Limits as per the BfR XXXVI Regulation

### 6) Azo Dyes

Sr. No.	Name of Test	Result	Unit	Detection Limit	Limits as per Standard	Test Method
6.1	Azo Dyes	Not Detected	mg/kg	0.01	Prohibited	Based on EN 14362-1 Determined by GC MSMS

The sample Complies above test parameter as per BfR XXXVI Regulation.Limits as per the BfR XXXVI Regulation

## 7) Specific Migration of Glyoxal

Sr. No.	Name of Test	Result	Unit	rod	Limits as per BfR XXXVI	Test Method
7.1	Specific Migration of Glyoxal	<loq< td=""><td>mg/dm²</td><td>1.0</td><td>NMT 1.5</td><td>Method based on BS EN 13130(P1) 2004) Determined by UPLC MS/MS</td></loq<>	mg/dm²	1.0	NMT 1.5	Method based on BS EN 13130(P1) 2004) Determined by UPLC MS/MS

The sample Complies above test parameter as per BfR XXXVI Regulation.Limits as per the BfR XXXVI Regulation LOQ: Limit of Quantification



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3) Optical Brightners							
Sr. No.	Name of Test	Result	Limits as per Standard	Test Method			
8.1	Optical Brightners (Fluoroscent Subsances of Wavelength 254 to 465 nm)	No optical Brightners Absorbed @ 254 to 465 nm	No visible transfer	Determined by UV Visible Spectrophotometer Based on EN 648			

Note: The sample Complies above test parameter as per BfR XXXVI Regulation.Limits as per the BfR XXXVI Regulation.

# 9) Nonyl Phenol Ethoxylate (NPEO)

Sr. No.	Name of Test	Result	Unit	rod	Limits as per BfR XXXVI	Test Method
9.1	Nonyl Phenol Ethoxylate (NPEO)	< LOQ	mg/kg	0.025	Not Detectable	Determined by UPLC MS/MS

The sample Complies above test parameter as per BfR XXXVI Regulation.Limits as per the BfR XXXVI Regulation LOQ: Limit of Quantification

## 10) Acrylamide

Sr. No.	Name of Test	Result	Unit	LOQ	Limits as per BfR XXXVI	Test Method
10.1	Acrylamide	< LOQ	mg/kg	0.025	Not Detectable	Determined by UPLC MS/MS

The sample Complies above test parameter as per BfR XXXVI Regulation.Limits as per the BfR XXXVI Regulation LOQ: Limit of Quantification

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Date: 13 June 2022

11)	Microbiogical	test
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Sr. No.	Name of Test Parameter	Result	Unit	Limits as per BfR XXXVI	Test Method
1.1	Antimicrobial Substances Bacillus subtillus NCIM 2063 Aspergillus niger NCIM 1196	Absence of zone inhibition		Absence of zone inhibition*	BS EN 1104:2005

<sup>\*-</sup> Absence of zone of inhibition indicates should not release substances in quantities which have an antimicrobial effect in the Product against tested bacteria and fungi. The sample Complies above test parameter as per BfR XXXVI Regulation.

# 12) Specific Migration of Bisphenol A

Sr. No.	Name of Test	Result	Unit	LOQ	Limits as per BfR XXXVI	Test Method
12	Specific Migration of Bis Phenol A	<loq< td=""><td>mg/kg</td><td>0.025</td><td>Max 0.050</td><td>Cold water extract Followed by by LC-MS/MS</td></loq<>	mg/kg	0.025	Max 0.050	Cold water extract Followed by by LC-MS/MS

The sample Complies above test parameter as per BfR XXXVI Regulation.

LOQ: Limit of Quantification

# 13) Specific Migration of Dimethylamine

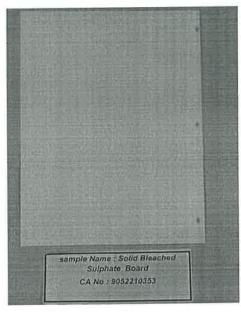
Sr. No.	Name of Test	Result	Unit	Limits as per BfR XXXVI	Test Method
13	Specific Migration of Dimethylamine	Absent	mg/dm²	Not Detectable	Method based on BS EN 13130(P1) 2004) Determined by GC MS/MS

The sample Complies above test parameter as per BfR XXXVI Regulation.Limits as per the BfR XXXVI Regulation LOQ: Limit of Quantification





Date: 13 June 2022



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Authorized by

RaghuRam Semmalai
Assistant Manager – Material Testing Services

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**End of Report** 

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#### **Test Report**

Report No: TUV(I)/503/22-23/9052210353 Part B

Date: 13 June 2022

TUV INDIA PRIVATE LIMITED
TUV Nord Group

No.8. VK Commerce, II Floor, III Main Road, Opp. KSSIDC, IT Park, Rajajinagar, Industrial Estate, Bangalore - 560 010. India. CIN: U74140MH1989PTC052930

Phone : 080 - 40823000 Toll Free : 1800-209-0902

Email : foodlabindia@tuv-nord.com
Website : www.tuv-nord.com/in

Name and address of customer

Tamil Nadu Newsprint and Papers Ltd - Unit II

(A Government of Tamil Nadu Enterprise)

Mondipatti, K. Periyapatti Post,

Manapparai Taluk, Tiruchirappalli Dist, Tamilnadu-621306.

Name of the sample

Solid Bleached Sulphate Board

Batch Code

Batch Code: AFT, AFT-B1, AFS, ALP, ASN

Lab sample Id No.

9052210353

Date of sample receipt

12 May 2022

Date(s) of analysis

12 May 2022 - 13 June 2022

Discipline

: Chemical

Products Category

Food Contact & Food Packaging Materials

Objectives Of Examination

FSSAI - Food Safety and standard (Packaging) Regulation

1) To test for compliance with IS-6615: 1972 (RA-2009) for Heavy Metal, PCP & PCB

Content

Regulation Requirement

To test for compliance with IS-6615: 1972 (RA-2009), Paper Board material & article

intended to come in contact with Foodstuffs as per FSSAI Food Packaging Regulation.

Sample drawn by

: Customer

Conclusion

The Submitted sample Conforms with IS 6615: 1972 (Reaffirmed 2009) for Cadmium, Hexavalent Chromium, Lead, Mercury, Pentachlorophenol & Polychlorinated biphenyl\_PCB test parameters.

Refer further pages for Test Result

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Date: 13 June 2022

Sr. No.	Name of Test	Result	LOQ	Unit	Limits as per IS 6615: 1972 (Reaffirmed 2009)	Test Method
1	Cadmium - Cd	< LOQ	0.25	mg/kg	0.5	Based on IS 6615: 1972 (Reaffirmed 2009)
2	Lead – Pb	< LOQ	0.25	mg/kg	3.0	
3	Mercury – Hg	<loq< td=""><td>0.25</td><td>mg/kg</td><td>0.3</td></loq<>	0.25	mg/kg	0.3	
4	Hexavalent Chromium – Cr ( VI )	< LOQ	0.05	mg/kg	0.1	
5	Pentachlorophenol Content	< LOQ	0.025	mg/kg	0.05	
6	Polychlorinated biphenyl_PCB Content	< LOQ	0.3	mg/kg	2.0	

#### Name of the PCBs Compounds Analysed

2-CHLOROBIPHENYL

3,3',-DICHLOROBIPHENYL

2,4,5-TRICHLOROBIPHENYL

2,2',4,4TETRACHLOROBIPHENYL

2,3,4,5,6-PENTACHLOROBIPHENYL

2,2',3,3',6,6'-HEXACHLOROBIPHENYL

2,2',3,4,5,5',6,-HEPTACHLOROBIPHENYL

2,2',3,3',4,4',5,5'-OCTACHLOROBIPHENYL

2,2',3,3',4,4',5,5',6-NONACHLOROBIPHENYL

2,2',3,3',4,4',5,5',6,6'-DECACHLOROBIPHENYL

Note: LOQ-Limit of Quantification



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RaghuRam Semmalai Assistant Manager - Material Testing Services

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