

Test Report

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

Date: 13 June 2022

Name and address of

customer

TUV INDIA PRIVATE LIMITED

TUV Nord Group No.8. VK Commerce, Il Floor, Ill Main Road, Opp. KSSIDC, IT Park, Rajajinagar, Industrial Estate, Bangalore - 560 010. India.

CIN: U74140MH1989PTC052930 Phone : 080 - 40823000

Totl Free: 1800-209-0902
Tamil Nadu Newsprint and Papers Likeli United diabindia@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

Result Summary

Solid Bleached Sulphate Board

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

Batch Code

9052210353 CA No.

Date of sample receipt 12 May 2022

12 May 2022 - 13 June 2022 Date(s) of analysis

Chemical Discipline

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

Chloroform - soluble extractive residues test. Objectives Of Examination

Customer Sample drawn by

Selected test(s) as requested by client. Test Requested

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



Modia



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 ²	0.25	0.5	
2	8 % Ethanol	120 °F-24hr	< LOQ	mg/inch ²	0.25	0.5	Based on TUVB/02/SOP/27
3	50 % Ethanol	120 °F-24hr	< LOQ	mg/inch ²	0.25	0.5	USFDA 21.CFR.176.170
4	n - Heptane	70 °F- 0.5hr	< LOQ	mg/inch ²	0.25	0.5	

Note:

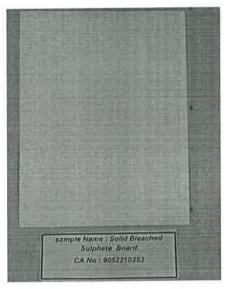
- Sample Complies with US.FDA 21.CFR.176.170 for above tested parameters.
 Sample kept in contact with Simulants above test condition.
 Limits are as per USFDA 21.CFR.176.170
 LOQ: Limit of Quantification

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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

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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 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

.

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



) Heavy n	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	Based on EN-647 Determined by ICP-OES		
1.2	Cadmium (Cd)	< LOQ	mg/kg	0.1	Max 0.5			
1.3	Mercury (Hg)	< LOQ	mg/kg	0.1	Max 0.3			
1.4	Chromium (VI)	< LOQ	mg/kg	0.1	Not Detectable			

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

LOQ: Limit of Quantification

2) Specific Migration of Phthalates

-	_					
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 BS EN 13130 (P1) 2004) by GC-MS
2.3	Diisobutyl phthalate	< LOQ	mg/kg	0.1	Max 0.3	
2.4	The sum of Di-n-butyl phthalate & Diisobutyl phthalate	< LOQ	mg/kg	0.1	Max 0.3	

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
	Complies above test parameter t of Quantification	as per BfR XXX\	/I Regulation.			
) Dichloro	propanol (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	rođ	Limits as per BfR XXXVI	Test Method
7.1	Specific Migration of Glyoxal	< 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





Name of Test

Acrylamide

Sr. No.

10.1

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 s	ample Complies above test para	meter as per BfR	XXXVI Regula	tion.Limits as	per the BfR XXXV	'I Regulation.
) Nonyl Ph	enol Ethoxylate (NPEO)					
Sr. No.	Name of Test	Result	Unit	rod	Limits as per BfR XXXVI	Test Method
9.1	Nonyl Phenol Ethoxylate (NPEO)	<loq< td=""><td>mg/kg</td><td>0.025</td><td>Not Detectable</td><td>Determined by UPLC MS/MS</td></loq<>	mg/kg	0.025	Not Detectable	Determined by UPLC MS/MS
	Complies above test parameter t of Quantification	as per BfR XXXV	/I Regulation.L	imits as per th	e BfR XXXVI Reg	ulation

Unit

mg/kg

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

Result

< LOQ



Test Method

Determined by UPLC MS/MS



Limits as per

BfR XXXVI

Not Detectable

LOQ

0.025



Date: 13 June 2022

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

^{*-} 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

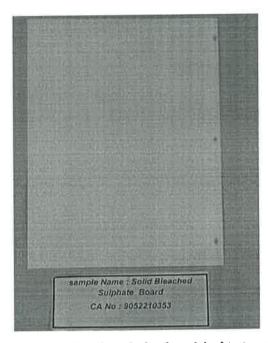
Sr. No.	Name of Test	Result	Unit	Limits as per BfR XXXVI	Test Method
13	Specific Migration of Dimethylamine	Absent	mg/dm²	Not Detectable	Method based on BS EN 13130(P1) 2004) Determined by GC MS/MS

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





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RaghuRam Semmalai Assistant Manager - Material Testing Services

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End of Report

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Test Report

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

Name and address of customer

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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

Page 1 of 2

Registered & Head Office: 801, Raheja Plaza - 1, L.B.S. Merg, Ghatkopar (W), Mumbai 400 086.
Phone: (022) 6647 70000 * E-mail: infoindia@tuv-nord.com/in
TÜV NORD GROUP



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< td=""><td>0.025</td><td>mg/kg</td><td>0.05</td></loq<>	0.025	mg/kg	0.05	
6	Polychlorinated biphenyl_PCB Content	<loq< td=""><td>0.3</td><td>mg/kg</td><td>2,0</td></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: LOO-Limit of Quantification



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-- End of Report

Page 2 of 2



CERTIFICATE

Food safety management systems as per

ISO 22000 : 2018

Requirements for any organization in the food chain

The Certification Body TOV NORD CERT OmbH hereby confirms as a result of the sucit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

TAMILNADU NEWSPRINT AND PAPERS LIMITED

UNIT II: Multilayer Coated Board Manufacturing Facility Mondipatty, K.Periyapatti Post, Manaparai Taluk, Tiruchirapalli - 621 306, Tamilnadu, India



operates a management system in accordance with the requirements of ISO 22000 ; 2018 and will for conformity within the 3 year term of validity of the certificate.

Category -

I: Production of Food Packaging and Packaging Material

Manufacture and Supply of Multilayer Uncoated and Coated Paper Boards for Food Products Packaging by Pulping, Board Making, Coating and Conversion.

Certificate Registration No. 44 281 21393378 Audit Report No 2.5-10600/2021

Valid from 15,11,2021 Valid until 14.11.2024 Initial certification 2021

Certification Body M TUV NORD CERT GIBH

Mumbal, 15.11.2021

TÜV NORD CERT GITCH

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TUV India Pvt Ltd. 801, Raheja Plaza - 1, L B.S. Mary, Chattoper (W), Mumbel - 400 DDR, India



FILE NO: KSPCB/MA/ICO/10031052/2024

Date of issue : 31-03-2024





KERALA STATE POLLUTION CONTROL BOARD CONSENT TO

OPERATE/AUTHORISATION/REGISTRATION

ISSUED UNDER

The Water (Prevention & Control of Pollution) Act, 1974

The Air (Prevention & Control of Pollution) Act, 1981

and

The Environment (Protection) Act, 1986

As per Application No. : 10031052 Dated : 03-06-2023

To

SIGMA PACKS SIGMA PACKS,KALPAKANCHERI, KALLINGAL, MALAPPURAM 676551,

Consent No.: KSPCB/MA/ICO/10031052/2024

Valid Upto : 31-05-2028