

Test ReportNo. BR2301954 Rev. 0
Date: Barueri, 08 Aug 2023
Page 1 of 9

MAGMA INDUSTRIA COMERCIO E IMPORTAÇÃO DE PRODUTOS TEXTEIS LTDA.

RUA DOMINGOS PAIVA

260

SAO PAULO, SP 03043070

BRAZIL

The following sample(s) was/were submitted and identified on behalf of the buyer as: TUBOX PALMITECH C/

EVA

SGS Order No.: 40000006581

Total of Sample : 1 SAMPLE

Lot Number: TUBOX PALMITECH

Country of Origin: BRAZIL
Country of Destination: BRAZIL

Sample date of Manufactured : 2023/MAY

Sample date of Expiration: 12 MONTHS

Supplier: TUBOX

Manufacturer: TUBOX

Project: AFIRM

Client: TUBOX COMERCIAL LTDA

The informations above was provided by or on behalf of the customer.

Proposal Number: C&P PR23-1352681 REV01

Sample Receiving Date: 22 Jun 2023

Test Performing Period: 26 Jun 2023 - 08 Aug 2023

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

Test Part Description: Please refer to next page(s).

Test Method: Please refer to next page(s).

Test Results: Please refer to next page(s).

Technical Responsability: Alessandra Shimizu - Laboratory Manager CRQ 04245592

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Test Report

No. BR2301954 Rev. 0

Date: Barueri, 08 Aug 2023

Page 2 of 9

Sample Photo:



SGS authenticate the photo on original report only

Signed for and on behalf of SGS do Brasil Ltda.

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Alessandra Shimizu

Laboratory Manager CRQ 04245592

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Test ReportNo. BR2301954 Rev. 0
Date: Barueri, 08 Aug 2023
Page 3 of 9

Test Results:

Test Part Description:

Item No. SGS Sample ID Description

1 BR2301954.001 TUBOX PALMITECH C/ EVA

Nonylphenol (NP) and Octylphenol (OP)

Test Method: Sample preparation by solvent extraction (EN ISO 21084: 2019), analysis performed by GC-MS.

					Result
Test Item(s)	CAS-NO.	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	<u>001</u>
Nonylphenol (NP)	25154-52-3	-	3.00	mg/kg	ND
Octylphenol (OP)	27193-28-8	-	3.00	mg/kg	ND
Sum of NP and OP (AP)		Max. 10.00	-	mg/kg	ND

Nonylphenol Ethoxylates (NPEOs) and Octylphenol Ethoxylates (OPEOs)

Test Method: Sample preparation by solvent extraction (EN ISO 18254/16), analysis performed by LC-MS.

					Result
Test Item(s)	CAS-NO.	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	<u>001</u>
Nonylphenol ethoxylates (NPEO)	9016-45-9	-	20.00	mg/kg	ND
Octylphenol ethoxylates (OPEO)	9002-93-1	-	20.00	mg/kg	ND
Sum of NPEO and OPEO		Max. 100.00	-	mg/kg	ND

Determination of Bisphenol

Test Method: Extraction: 1 g sample / 20 ml

THF, sonication for 60 minutes at 60°C, analysis with LC/MS

Result <u>001</u>
g ND

Notes:

BPB,BPS, BPF and BPAF informational only.

Chlorinated Paraffins

Test Method: With reference to ISO 22818:2021. Analysis was conducted by GC-NCI-MS.

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lest Report No.	. BR2301954 Rev. 0	Date: Barueri, 08 Aug 2023	Page 4 of 9
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					Result
Test Item(s)	CAS-NO.	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	<u>001</u>
Short Chained Chlorinated Paraffin (SCCP)	85535-84-8	Max. 1000	100	mg/kg	ND
Medium Chained Chlorinated Paraffin (MCCP)	85535-85-9	Max. 1000	100	mg/kg	ND

Extractable Heavy Metal

Test Method: DIN EN 16711-2:2016, Analysis was conducted by ICP-MS

Test Item(s)	CAS-NO.	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	Result <u>001</u>
Antimony (Sb)	7440-36-0	Max. 30.000	3.000	mg/kg	ND
Arsenic (As)	7440-38-2	Max. 0.200	0.100	mg/kg	ND
Barium (Ba)	7440-39-3	Max. 1000.000	100.000	mg/kg	ND
Cadmium (Cd)	7440-43-9	Max. 0.100	0.050	mg/kg	ND
Chromium (Cr)	7440-47-3	-	0.500	mg/kg	ND
Cobalt (Co)	7440-48-4	-	0.500	mg/kg	ND
Copper (Cu)	7440-50-8	-	5.000	mg/kg	ND
Lead (Pb)	7439-92-1	-	0.100	mg/kg	ND
Mercury (Hg)	7439-97-6	Max. 0.020	0.020	mg/kg	ND
Selenium (Se)	7782-49-2	Max. 500.000	50.000	mg/kg	ND
Notes:					

Specification: Cobalt Adult Limit: 4 mg/kg / Infant Limit: 1 mg/kg, Copper Adult Limit: 50 mg/kg / Infant Limit: 25 mg/kg; Lead Adult Limit: 1 mg/kg / Infant and Babies Limit: 0,2 mg/kg and Chromium Adult and infant Limit: 2 mg/kg / Babies Limit: 1 mg/kg.

Total Heavy Metals

Test Method: DIN EN 16711-1:2016, Analysis was conducted by ICP-MS

Test Item(s)	CAS-NO.	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	Result <u>001</u>
Arsenic (As)	7440-38-2	Max. 100.00	10.00	mg/kg	11.86
Cadmium (Cd)	7440-43-9	Max. 40.00	5.00	mg/kg	ND
Mercury (Hg)	7439-97-6	Max. 0.50	0.10	mg/kg	0.13

Non-Metal Products

Test Method: With reference to CPSC-CH-E1002-08.3; analysis was performed by ICP-OES.

				Result
Test Item(s)	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	<u>001</u>
Lead (Pb)	Max. 90.00	10.00	mg/kg	ND

Organotin Compounds

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SGS do Brasil Ltda.



Test Report No. BR2301954 Rev. 0 Date: Barueri, 08 Aug 2023 Page 5 of 9

Test Method: With reference to ISO 16179:2012, analysis was performed by GC-MS

					Result
Test Item(s)	CAS-NO.	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	<u>001</u>
Dibutyl tin (DBT)	1002-53-5	Max. 1.00	0.10	mg/kg	ND
Dioctyl tin (DOT)	15231-44-4	Max. 1.00	0.10	mg/kg	ND
Monobutyl tin (MBT)	78763-54-9	Max. 1.00	0.10	mg/kg	ND
Tricyclohexyl tin (TCyHT)	892-20-6	Max. 1.00	0.10	mg/kg	ND
Trimethyltin (TMT)		Max. 1.00	0.10	mg/kg	ND
Trioctyltin (TOT)	869-59-0	Max. 1.00	0.10	mg/kg	ND
Tripropyltin(TPT)		Max. 1.00	0.10	mg/kg	ND
Tributyl tin (TBT)	688-73-3	Max. 0.50	0.10	mg/kg	ND
Triphenyl tin (TPhT)	892-20-6	Max. 0.50	0.10	mg/kg	ND

Phthalates

Test Method: With reference to ISO 14389:2014; Analysis was performed by GC-MS/CPSC Method

CPSC-CH-C1001.09.4:2018

					Result
Test Item(s)	CAS-NO.	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	<u>001</u>
Diisononyl Phthalate (DINP)	28553-12-0	Max. 500.00	50.00	mg/kg	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	Max. 500.00	50.00	mg/kg	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	Max. 500.00	50.00	mg/kg	ND
Diisodecyl Phthalate (DIDP)	26761-40-0	Max. 500.00	50.00	mg/kg	ND
Benzylbutyl Phthalate (BBP)	85-68-7	Max. 500.00	50.00	mg/kg	ND
Dibutyl Phthalate (DBP)	84-74-2	Max. 500.00	50.00	mg/kg	ND
Diisobutyl Phthalate (DIBP)	84-69-5	Max. 500.00	30.00	mg/kg	ND
Di-n-hexyl Phthalate (DnHP)	84-75-3	Max. 500.00	50.00	mg/kg	ND
Diethyl Phthalate (DEP)	84-66-2	Max. 500.00	50.00	mg/kg	ND
Dimethyl Phthalate (DMP)	131-11-3	Max. 500.00	50.00	mg/kg	ND
Di-n-pentyl Phthalate (DPENP)	131-18-0	Max. 500.00	50.00	mg/kg	ND
Dicyclohexyl Phthalate (DCHP)	84-61-7	Max. 500.00	50.00	mg/kg	ND
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	Max. 500.00	50.00	mg/kg	ND
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	Max. 500.00	50.00	mg/kg	ND
Diisopentyl Phthalate (DIPP)	605-50-5	Max. 500.00	50.00	mg/kg	ND
Dipropyl phthalate (DPRP)	131-16-8	Max. 500.00	50.00	mg/kg	ND
Diisooctyl phthalate (DIOP)	27554-26-3	Max. 500.00	50.00	mg/kg	ND
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	Max. 500.00	50.00	mg/kg	ND
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	84777-06-0	Max. 500.000	50.000	mg/kg	ND

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Test ReportNo. BR2301954 Rev. 0
Date: Barueri, 08 Aug 2023
Page 6 of 9

Test Item(s)	CAS-NO.	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	Result <u>001</u>
1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters	68648-93-1	Max. 500.000	30.000	mg/kg	ND
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters	68515-51-5	Max. 500.000	30.000	mg/kg	ND
N-pentyl-isopentyl Phthalate (NPiPP)	776297-69-9	Max. 500.00	30.00	mg/kg	ND
Di-hexylphthalate, branched and linear (DHxP)	68515-50-4	Max. 500.000	30.000	mg/kg	ND
Di-iso-hexylphthalate (DIHxP)	71850-09-4	Max. 500.00	30.00	mg/kg	ND
Sum		Max. 1000.00	-	mg/kg	ND

Polycyclic aromatic hydrocarbons (PAH)

Test Method: With reference to AfPS GS 2019:01 PAK. Analysis was performed by GC-MS.

					Result
Test Item(s)	CAS-NO.	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	<u>001</u>
Acenaphthene (ANA)	83-32-9	-	0.10	mg/kg	ND
Acenaphthylene (ANY)	208-96-8	-	0.10	mg/kg	ND
Anthracene (ANT)	120-12-7	-	0.10	mg/kg	ND
Benzo(g,h,i)perylene (BPE)	191-24-2	-	0.10	mg/kg	ND
Fluorene (FLU)	86-73-7	-	0.10	mg/kg	ND
Fluoranthene (FLT)	206-44-0	-	0.10	mg/kg	ND
Indeno(1,2,3-c,d)pyrene (IPY)	193-39-5	-	0.10	mg/kg	ND
Naphthalene (NAP)	91-20-3	-	0.10	mg/kg	ND
Phenanthrene(PHE)	85-01-8	-	0.10	mg/kg	ND
Pyrene (PYR)	129-00-0	-	0.10	mg/kg	ND
Benzo(a)anthracene (BaA)	56-55-3	-	0.10	mg/kg	ND
Benzo(a)pyrene (BaP)	50-32-8	-	0.10	mg/kg	ND
Benzo(b)fluoranthene (BbF)	205-99-2	-	0.10	mg/kg	ND
Benzo(e)pyrene (BeP)	192-97-2	-	0.10	mg/kg	ND
Benzo(j)fluoranthene (BjF)	205-82-3	-	0.10	mg/kg	ND
Benzo(k)fluoranthene (BkF)	207-08-9	-	0.10	mg/kg	ND
Chrysene (CHR)	218-01-9	-	0.10	mg/kg	ND
Dibenzo(a,h)anthracene (DBA)	53-70-3	-	0.10	mg/kg	ND
Sum of 18 PAH		Max. 10.00	-	mg/kg	ND

Notes:

Specification: Benzo(a) anthracene; Benzo(a) pyrene; Benzo(b) fluoranthene; Benzo[e] pyrene; Benzo[j] fluoranthene; Benzo[e] pyrene; Benzo[e

Benzo(k)fluoranthene; Chrysene; Dibenzo(a,h)anthracene: 1 ppm each; Child care articles: 0.5 ppm each

Residual Solvent (ISO 16189/21)

Test Method: ISO 16189/2021, extration with organic solvent, analysis was performed by GC-MS.

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Test ReportNo. BR2301954 Rev. 0
Date: Barueri, 08 Aug 2023
Page 7 of 9

					Result
Test Item(s)	CAS-NO.	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	<u>001</u>
Dimethylacetamida (DMAC)	127-19-5	Max. 1000.00	50.00	mg/kg	ND
Dimethylformamide (DMFA)	68-12-2	Max. 500.00	50.00	mg/kg	ND
Formamide	75-12-7	Max. 1000.00	50.00	mg/kg	ND
N-methyl-2-pyrrolidone (NMP)	872-50-4	Max. 1000.00	50.00	mg/kg	ND

UV Absorbers/ Stabilizers

Test Method: ISO 24040 with extraction in THF,

analysis by GC/MS

Test Item(s)	CAS-NO.	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	Result <u>001</u>
2-(2-hydroxy-3,5-di-tert-butylphenyl)-benzotriazole (UV 320)	3846-71-7	Max. 1000	100	mg/kg	ND
2- (2-hydroxy-3,5-di-t-butylphenyl)-5-chlorobenzotriazol (UV 327)	3864-99-1	Max. 1000	100	mg/kg	ND
2-(2-hydroxy-3,5-di-tert-pentylphenyl)benzotriazole (UV 328)	25973-55-1	Max. 1000	100	mg/kg	ND
2- (2-hydroxy-3-sec-butyl-5-tert-butyphenyl)benzotriazol e (UV 350)	36437-37-3	Max. 1000	100	mg/kg	ND
Drometrizole Notes:	2440-22-4	-	100	mg/kg	ND

Drometrizole informational only.

Volatile Compound

Test Method: In House Method IHM 2483/13, EPA 8260C.

Test Item(s)	CAS-NO.	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	Result <u>001</u>
Benzene	71-43-2	Max. 5.00	5.00	mg/kg	ND
Carbon Disulfide	75-15-0	-	20.00	mg/kg	ND
Carbon Tetrachloride	56-23-5	-	20.00	mg/kg	ND
Chloroform	67-66-3	-	20.00	mg/kg	ND
Cyclohexanone	108-94-1	-	20.00	mg/kg	ND
1,2-Dichloroethane	107-06-2	-	20.00	mg/kg	ND
1,1-Dichloroethene	75-35-4	-	20.00	mg/kg	ND
Ethylbenzene	100-41-4	-	20.00	mg/kg	ND
Pentachloroethane	76-01-7	-	20.00	mg/kg	ND
1,1,1,2-Tetrachloroethane	630-20-6	-	20.00	mg/kg	ND
1,1,2,2-Tetrachloroethane	79-34-5	-	20.00	mg/kg	ND
Tetrachloroethylene	127-18-4	-	20.00	mg/kg	ND

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Test ReportNo. BR2301954 Rev. 0
Date: Barueri, 08 Aug 2023
Page 8 of 9

					Result
Test Item(s)	CAS-NO.	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	<u>001</u>
Toluene	108-88-3	-	20.00	mg/kg	ND
1,1,1-Trichloroethane	71-55-6	-	20.00	mg/kg	ND
1,1,2-Trichloroethane	79-00-5	-	20.00	mg/kg	ND
Trichloroethylene	79-01-6	-	20.00	mg/kg	ND
Sum of Xylenes (o,m,p)	1330-20-7	-	20.00	mg/kg	ND
Sum of VOCs	-	Max. 1000	20.00	mg/kg	ND

Remarks:

(1) RL = Reporting Limit (2) ND = Not Detected (< RL)

(3) "-" = Not Analyzed / Not Applicable

(4) "--" = Analysis in Process

(5) 1 mg/kg = 0.0001%(6) mg/kg = ppm

Comments:

The reported results refer only to the samples submitted to the tests. SGS is not responsible for information regarding the composition of the sample and its manufacturing data. These are the sole responsibility of the customer and are not part of the service scope of SGS do Brasil LTDA.

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The Decision Rule defined by SGS states that the uncertainty of measurement will not be considered in the Verdict (declaration of conformity) when indicated in the test report.

The Test of UV Absorbers/ Stabilizers, is not part of the scope of testing of this laboratory and was produced by a subcontracted

laboratory. The outsourced test was performed by laboratory SGS Hong Kong Limited, report number SL12300304720801TX.

The Test of Chlorinated Paraffins, is not part of the scope of testing of this laboratory and was produced by a subcontracted laboratory. The outsourced test was performed by laboratory SGS Hong Kong Limited, report number SL12300305278401TX.

WARNING: The opinions and interpretations expressed below are based on the results obtained from the item tested, applicable only to the tests where the specification parameters are included in this report.

Summary of Test Result:

Test Parameter	Test Method	Evaluation	
Extractable Heavy Metal	DIN EN 16711-2:2016,Analysis was	PASS	
	conducted by ICP-MS		
Total Heavy Metals	DIN EN 16711-1:2016,Analysis was	PASS	
•	conducted by ICP-MS		
Non-Metal Products	With reference to CPSC-CH-E1002-08.3;	PASS	
Tron motal i roudete	analysis was performed by ICP-OES.		
Nonylphenol (NP) and Octylphenol (OP)	Sample preparation by solvent extraction (EN	PASS	
really process (viii) and conjugate (co.)	ISO 21084: 2019), analysis performed by		
	GC-MS.		
Nonylphenol Ethoxylates (NPEOs) and	Sample preparation by solvent extraction (EN	PASS	
Octylphenol Ethoxylates (OPEOs)	ISO 18254/16), analysis performed by		
	LC-MS.		

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Test Report No. BR2301954 Rev. 0 Date: Barueri, 08 Aug 2023 Page 9 of 9

Determination of Bisphenol	Extraction: 1 g sample / 20 ml	PASS
'	THF, sonication for 60 minutes at 60°C,	
	analysis with LC/MS	
Chlorinated Paraffins	With reference to ISO 22818:2021. Analysis	PASS
	was conducted by GC-NCI-MS.	
Organotin Compounds	With reference to ISO 16179:2012, analysis	PASS
•	was performed by GC-MS	
Phthalates	With reference to ISO 14389:2014; Analysis	PASS
	was performed by GC-MS/CPSC Method	
	CPSC-CH-C1001.09.4:2018	
Polycyclic aromatic hydrocarbons (PAH)	With reference to AfPS GS 2019:01 PAK.	PASS
,	Analysis was performed by GC-MS.	
Residual Solvent (ISO 16189/21)	ISO 16189/2021, extration with organic	PASS
(solvent, analysis was performed by GC-MS.	
UV Absorbers/ Stabilizers	ISO 24040 with extraction in THF,	PASS
- · · · · · · · · · · · · · · · · · · ·	analysis by GC/MS	
Volatile Compound	In House Method IHM 2483/13, EPA 8260C.	PASS
•		

^{***} End of Report ***

The assay were conducted in the laboratory in Brazil, located at the address cited at the bottom of this report.

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