

**Requirer:** ANIGER PARTICIPACOES SOCIETARIAS E ASSESSORIA LTDA

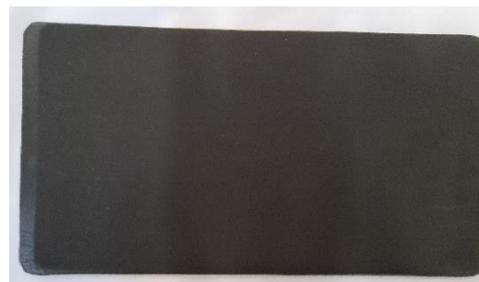
**Address:** Rua Armindo Eltz, 51– Campo Bom - RS.

**Date of receipt of sample:** 03/08/2022.

**Sample characterization:** 01 sample of material, identified by the customer as: "PIGMENTO LARANJA 33292 LUV + PIGMENTO RENOL LARANJA 604707-13 + PIGMENTO PRETO 33286 LUV".

**Selection of samples:** up to the requirer.

**Sampling:** up to the laboratory.



TEST	RESULTS				
	Results	MLQ	Unit	Method	Evaluation
1 – Alkylphenols (NP/OP)	<10.0	10.0	mg/kg	ISO 18218-2:2019	Pass
2 – Ethoxylates alkylphenols (NPEO/OPEO)	<10.0	10.0	mg/kg	ISO 18218-2:2019	Pass
3 – Total Lead	23.4	3.5	mg/kg	CPSC-CH-E1002-08.3 (2012)	Pass
4 – Total Arsenic	<3.5	3.5	mg/kg	BS EN 16711-1:2015	Pass
5 – Total Mercury	<0.10	0.10	mg/kg	BS EN 16711-1:2015	Pass
6 – Total Cadmium	<3.5	3.5	mg/kg	BS EN 16711-1:2015	Pass
7 – Polyaromatic Hydrocarbons –PAHs	<0.20	0.20	mg/kg	AFPS-GS-2019-01-PAK	Pass
8 – Organotin Compounds	<0.10	0.10	mg/kg	ABNT ISO/TS 16179:2017	Pass
9 – Bisfenol A (BPA)	<1.0	1.0	mg/kg	Método AFIRM -Bisfenol A (BPA)	Pass
10 – Phtalates	<50.0	50.0	mg/kg	CPSC-CHC1001-09.4 (2018)	Pass

**Note 1:** Evaluation according to Veja Limits – Maximum Allowed Limits according VEJA Restricted Substances Policy – September/2021.

**Note 2:** mg/kg = ppm

*The results expressed in this current technical report are applied only to the sample tested as received.  
This document reproduction could be done only integrally without any alteration.*

**Results by Compounds:**

<b>Alkylphenols (AP), Alkylphenol Ethoxylates (APEOs) including all isomers</b>	<b>CAS Number</b>	<b>Results</b>	<b>VEJA Limits (Maximum allowable concentration)</b>	<b>Laboratory Limits (Method quantification limit)</b>
Nonylphenol (NP), mixed isomers	Several	<10.0	Total: 100 ppm	10.0 ppm (each)
Octylphenol (OP), mixed isomers	Several	<10.0		
Nonylphenol Ethoxylates (NPEOs)	Several	<10.0	Total: 100 ppm	
Octylphenol Ethoxylates (OPEOs)	Several	<10.0		

<b>Bisphenols</b>	<b>CAS Number</b>	<b>Result</b>	<b>VEJA Limits (Maximum allowable concentration)</b>	<b>Laboratory Limits (Method quantification limit)</b>
Bisphenol-A (BPA)	80-05-7	<1.0	1 ppm	1.0 ppm

*The results expressed in this current technical report are applied only to the sample tested as received.  
This document reproduction could be done only integrally without any alteration.*

Heavy Metals	CAS Number	Results	VEJA Limits (Maximum allowable concentration)	Laboratory Limits (Method quantification limit)
Arsenic (As)	7440-38-2	<3.5	Extracted: 0,1 ppm Total: 10 ppm	Extracted: 0.05 ppm Total: 3.5 ppm Leather: 2.0 ppm
Cadmium (Cd)	7440-43-9	<3.5	Extracted: 0.1 ppm Total: 40 ppm	Extracted: 0.05 ppm Total: 3.5 ppm Leather: 2.0 ppm
Lead (Pb)	7439-92-1	23.4	Extracted: 0.2 ppm Total: 90 ppm	Extracted: 0.05 ppm Total: 3.5 ppm Leather: 2.0 ppm
Mercury (Hg)	7439-97-6	<0.10	Extracted: 0.02 ppm Total: 0.5 ppm	Extracted: 0.005 ppm Total: 0.10 ppm

Organotin Compounds	CAS Number	Results	VEJA Limits (Maximum allowable concentration)	Laboratory Limits (Method quantification limit)
Dibutyltin (DBT)	Several	<0.10	1 ppm (each)	0.10 ppm
Dioctyltin (DOT)	Several	<0.10		
Monobutyltin (MBT)	Several	<0.10		
Tricyclohexyltin (TCyHT)	Several	<0.10		
Trimethyltin (TMT)	Several	<0.10		
Trioctyltin (TOT)	Several	<0.10		
Tripropyltin (TPT)	Several	<0.10		
Triphenyltin (TPhT)	Several	<0.10	0.5 ppm	
Tributyltin (TBT)	Several	<0.10	0.1 ppm	

The results expressed in this current technical report are applied only to the sample tested as received.  
This document reproduction could be done only integrally without any alteration.

Polycyclic Aromatic Hydrocarbons (PAHs)	CAS Number	Results	VEJA Limits (Maximum allowable concentration)	Laboratory Limits (Method quantification limit)
Acenaphthene	83-32-9	<0.20	No individual restriction	Total: 10 ppm
Acenaphthylene	208-96-8	<0.20		
Anthracene	120-12-7	<0.20		
Benzo(g,h,i)perylene	191-24-2	<0.20		
Fluorene	86-73-7	<0.20		
Fluoranthene	206-44-0	<0.20		
Indeno(1,2,3-cd) pyrene	193-39-5	<0.20		
Naphthalene	91-20-3	<0.20		
Phenanthrene	85-01-8	<0.20		
Pyrene	129-00-0	<0.20		
Benzo(a)anthracene	56-55-3	<0.20	0.5 ppm (each)	0.20 ppm
Benzo(a)pyrene	50-32-8	<0.20		
Benzo(b)fluoranthene	205-99-2	<0.20		
Benzo[e]pyrene	192-97-2	<0.20		
Benzo[j]fluoranthene	205-82-3	<0.20		
Benzo(k)fluoranthene	207-08-9	<0.20		
Chrysene	218-01-9	<0.20		
Dibenzo(a,h)anthracene	53-70-3	<0.20		

The results expressed in this current technical report are applied only to the sample tested as received.  
This document reproduction could be done only integrally without any alteration.

Phthalates	CAS Number	Results	VEJA Limits (Maximum allowable concentration)	Laboratory Limits (Method quantification limit)
Di-isonylphthalate (DINP)	28553-12-0	<50.0	Total: 1000 ppm 500 ppm (each)	50.0 ppm (each)
Di-n-octylphthalate (DNOP)	117-84-0	<50.0		
Di(2-ethylhexyl)-phthalate (DEHP)	117-81-7	<50.0		
Diisodecylphthalate (DIDP)	26761-40-0	<50.0		
Butylbenzylphthalate (BBP)	85-68-7	<50.0		
Dibutylphthalate (DBP)	84-74-2	<50.0		
Diisobutylphthalate (DIBP)	84-69-5	<50.0		
Di-n-hexylphthalate (DnHP)	84-75-3	<50.0		
Diethylphthalate (DEP)	84-66-2	<50.0		
Dimethylphthalate (DMP)	131-11-3	<50.0		
Di-n-pentyl phthalate (DPENP)	131-18-0	<50.0		
Dicyclohexyl phthalate (DCHP)	84-61-7	<50.0		
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	<50.0		
Bis(2-methoxyethyl) phthalate	117-82-8	<50.0		
Diisopentyl phthalate (DIPP)	605-50-5	<50.0		
Dipropyl phthalate (DPRP)	131-16-8	<50.0		
Diisooctyl phthalate (DIOP)	27554-26-3	<50.0		
Diisoexyl phthalate (DIHxP)	71850-09-4	<50.0		
Di-hexyl phthalate, branched and linear (DHxP)	68515-50-4	<50.0		
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	<50.0		
1,2-Benzenedicarboxylic acid	84777-06-0	<50.0		
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate; 1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters; 1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters	68648-93-1 68515-51-5	<50.0		
n-Pentyl-isopentylphthalate (nPIPP)	776297-69-9	<50.0		

The results expressed in this current technical report are applied only to the sample tested as received.  
This document reproduction could be done only integrally without any alteration.



Chemical  
Analysis  
Laboratory

Technical Report  
Nº 1393/22

Service Order  
Nº 0567/22

Page  
Nº 6/6



**EXAMINATION PERFORMED:** 03/08/2022 to 03/24/2022.

**TRACKING EQUIPMENT USED FOR TEST:**

- NI 102 Balance, with calibration certificate RBC 006060/2021 emitted by INSTITUTO SENAI DE INOVAÇÃO EM METALMECÂNICA-CETEMP and valid until 05/2023.

Estância Velha, March 28<sup>th</sup>, 2022

Technical Analyst  
Lucas Zoldan  
CRQ 05202050

Revision 02  
BRC

*The results expressed in this current technical report are applied only to the sample tested as received.  
This document reproduction could be done only integrally without any alteration.*