

Requirer: AKOREL SUPRIMENTOS CORPORATIVOS LTDA.

Address: Av Nacoes Unidas, 3640– Novo Hamburgo – RS.

Date of receipt of sample: 01/24/2022.

Sample characterization: 01 sample of material, identified by the customer as: "PAPEL SEDA 100% CELULOSE 160/20112021".

Selection of samples: up to the requirer.

Sampling: up to the laboratory



TEST	RESULTS				
	Results	ML	Unit	Method	Evaluation
1 – Alkylphenols (NP/OP)	<10.0	10.0	mg/kg	ISO 18218-2:2019	Pass
2 – Ethoxylates alkylphenols (NPEO/OPEO)	42.1	10.0	mg/kg	ISO 18218-2:2019	Pass
3 – Total Lead	<3.5	3.5	mg/kg	CPSC-CH-E1002-08.3 (2012)	Pass
4 – Total Cadmium	<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 Chromium	<3.5	3.5	mg/kg	BS EN 16711-1:2015	Pass
7 – Formaldehyde	<0.50	0.50	mg/kg	EN 1541:2001	Pass
8 – Hexavalent Chromium	<3.0	<3.0	mg/kg	IEC 62321-7-2:2017	Pass

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

Note 2: mg/kg = ppm

Note 3: ML = Method Quantification Limit.

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Alkylphenols (AP), Alkylphenol Ethoxylates (APEOs) including all isomers	CAS Number	Results	VEJA Limits (Maximum allowable concentration)	Laboratory Limits (Method quantification limit)
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	42.1	Total: 100 ppm	
Octylphenol Ethoxylates (OPEOs)	Several	<10.0		

Formaldehyde	CAS Number	Result	VEJA Limits (Maximum allowable concentration)	Laboratory Limits (Method quantification limit)
Formaldehyde	50-00-0	<0.50	All, except packaging: 16 ppm Packaging: 150 ppm	0.50 ppm

Heavy Metals	CAS Number	Results	VEJA Limits (Maximum allowable concentration)	Laboratory Limits (Method quantification limit)
Chromium (Cr)	7440-47-3	<3.5	Total: 100 ppm	3.5 ppm
Lead (Pb)	7439-92-1	<3.5		3.5 ppm
Mercury (Hg)	7439-97-6	<0.10		0.10 ppm
Cadmium (Cd)	7440-43-9	<3.5		3.5 ppm

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Hexavalent Chromium	CAS Number	Result	VEJA Limits (Maximum allowable concentration)	Laboratory Limits (Method quantification limit)
Hexavalent Chromium	18540-29-9	<3.0	3 ppm	3.0 ppm

EXAMINATION PERFORMED: 01/24/2022 to 02/15/2022.

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, April 18th, 2022

Technical Analyst
Lucas Zoldan
CRQ 05202050

Revision 02
BRC

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