

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 VERMELHO 33298 LUVI + PIGMENTO VERMELHO 8697 + PIGMENTO VERMELHO 33229 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 | 23.8 | 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

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Results by Compounds:

| 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 | <10.0 | Total: 100 ppm | |
| Octylphenol Ethoxylates (OPEOs) | Several | <10.0 | | |

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

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| 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 | 23.8 | 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 | |

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| 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 | 0.20 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 | | |

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| 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 | | |

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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 28th, 2022

Technical Analyst
Lucas Zoldan
CRQ 05202050

Revision 02
BRC

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