

Roediger Agencies cc

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ANALYTICAL LABORATORY

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26 January 2024

Renalde Pretorius
WanabiWood Flooring cc
Unit 10, Avon Business Park
Malcolm Moodie Crescent
Jet Park, Johannesburg

Dear Ms. Pretorius

REF no.: 2201WWF1/1

A vinyl flooring sample was sent to the analytical laboratory of Roediger Agencies cc to determine the phthalate content.

The sample was labelled:

1. Vinyl/hospital sheeting.

Results were obtained via the following test methods.

Soxhlet extraction

The sample was extracted with diethyl ether in a soxhlet for 4 hours. The solvent was evaporated after the extraction and the amount of extractant quantified.

Sample		Extract (%)
1	Vinyl/hospital sheeting	14.42

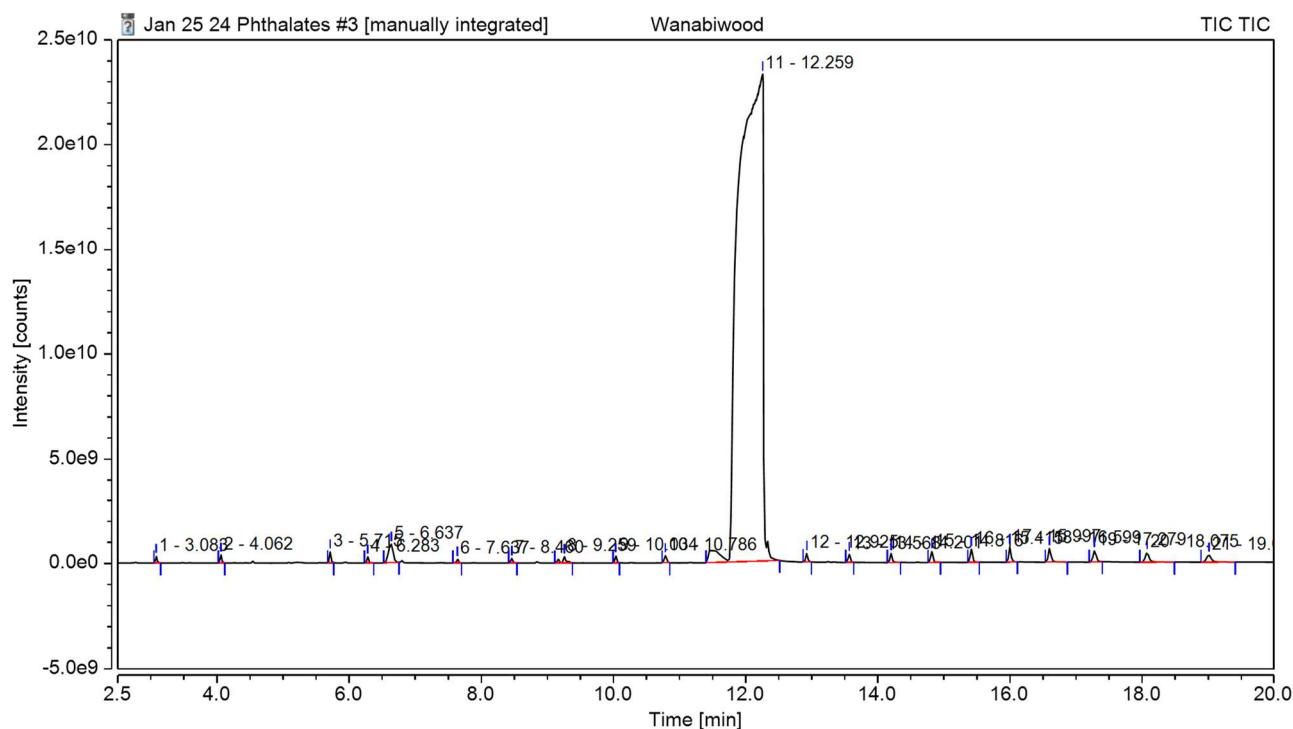
GC-MS analysis was conducted on the extract.

Phthalate analysis on GC-MS

Column type: Capillary
Column coating: BP-5MS
Column dimensions: 30 m, 0.25 ID, 0.25 micron
Injector temperature: 250 °C
Split Injection: 1:20
Front Inlet Flow: 2 mL/min.
Carrier gas: Helium
Initial oven temperature: 150 °C
Initial time: 0 min
Ramp at: 10 °C/min.
Final oven temperature: 310 °C
Time at final temperature: 14 min.

MS conditions

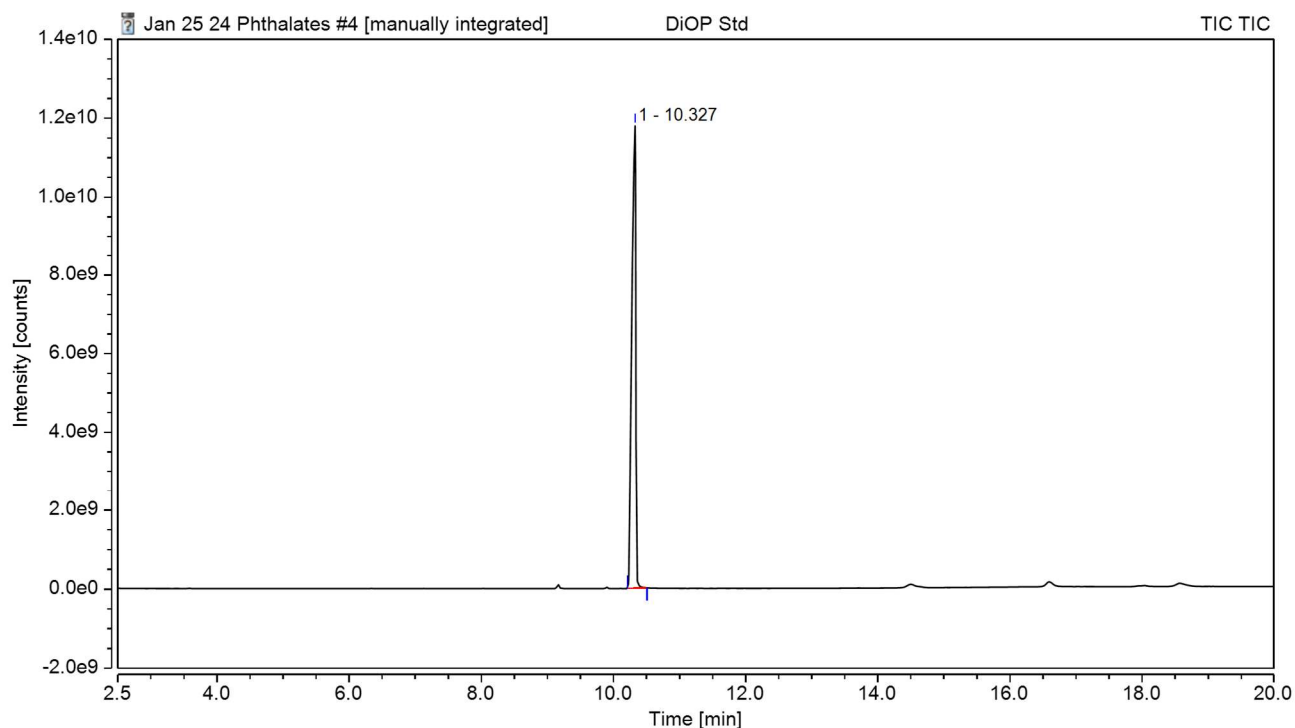
Transfer line: 280 °C
Ion source: 280 °C
Ionisation mode: EI
Scan range: 35 – 1000 amu



GCMS of extractant of Sample 1

Retention time (min)	1 st Hit	Library compound	Composition (% in extract)
3.08	924	Benzophenone	0.08
4.06	909	Octanoic acid, octyl ester	0.10
5.72	900	Octanoic acid, decyl ester	0.15
6.28	768	Sulfurous acid, dodecyl 2-ethylhexyl ester	0.09
6.64	931	Dibenzoylmethane	0.72
7.64	836	Nonadecane	0.06
8.46	891	Heneicosane	0.08
9.26	881	Pentacosane	0.21
10.03	895	Heneicosane	0.12
10.79	884	Octacosane	0.13
12.26	870	1,4-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester	95.80*
12.93	849	Nonadecane	0.14
13.57	858	Heneicosane	0.14
14.20	860	Heneicosane	0.17
14.82	869	Heneicosane	0.21
15.42	853	Octacosane	0.25
16.00	852	Octacosane	0.29
16.60	836	Carbonic acid, eicosyl vinyl ester	0.33
17.28	828	Heptacosane	0.31
18.07	814	Carbonic acid, eicosyl vinyl ester	0.32
19.01	785	Heptacosane	0.29

*also known as Bis(2-ethylhexyl) terephthalate



GCMS of DEHP standard

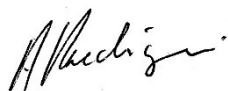
Summary

Sample		Plasticiser (%)
1	Vinyl/hospital sheeting	0.35

Sample		Phthalates (%)	
1	Vinyl/hospital sheeting	Dibutyl phthalate (DBP)	0.0
		Bis(2-ethylhexyl) phthalate (DEHP)	0.0
		Benzyl butyl phthalate (BBP)	0.0
		Diisononyl phthalate (DINP)	0.0
		di-n-octyl phthalate (DNOP)	0.0
		Diisodecyl phthalate (DIDP)	0.0

The vinyl/hospital sheeting contains plasticisers which are iso or terephthalates which are not considered as a health risk.

Yours faithfully,



Dr. AHA Roediger.

Please take note that samples will be retained for a period of one year and discarded thereafter. Food stuffs will only be kept for two weeks.