



October 29, 2008

Project # 0810.000

Company
1000 Street Ave
Seattle, WA 98100

Phone: (206) 555-1111
Fax: n/a

Attn: J. Doe

FTIR and GC Analysis of Plasticizers in Consumer Product

FTIR spectroscopy is used to examine the molecular bonds of matter. The bonds present in products containing any type of phthalates are unique and may be observed if the levels are sufficiently high. Quantitative results are available upon request by GC analysis, though high (>10%) levels measured in FTIR spectroscopy are rarely falsely positive. Minimum detection range is 1% total phthalates.

Addendum: GC/FID Analysis of Phthalates in PVC

Approximately 1 g of material removed from the sample was removed and extracted in dichloromethane (S. Rastogi, Chromatographia Vol. 47, No.784, 1998). GC/FID analysis was carried out with nine calibrated phthalate peaks. Two were identified, benzyl butyl phthalate and butyl octyl phthalate. Benzyl butyl phthalate is restricted by the CPSC's CPSIA to 1000ppm.

This report contains the results of FTIR spectroscopy and GC/FID analysis on samples submitted by J. Doe on 10/15/08.

LCM Sample ID	Client Sample ID	Description	Results
0810.000-01a	Skateboard wheel	PVC	13% BBP, 15% BOP
0810.000-01b	Skateboard truck	Polyolefin	No phthalates detected

Comment

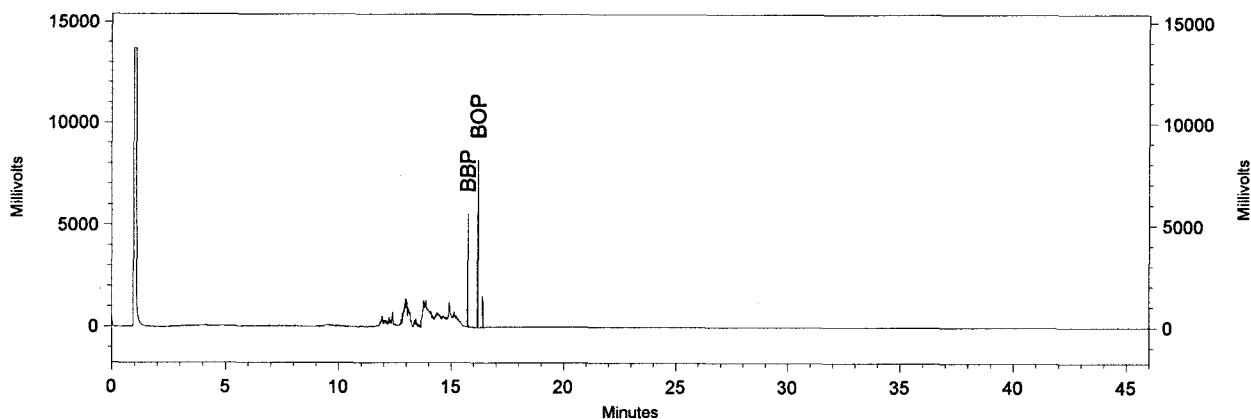
FTIR spectra and GC reports are attached.

R. M. Fisher, PhD
Chief Scientist

C. K. Brown
Laboratory Manager

Lab/Cor Materials, LLC - GC/FID Phthalate Analysis

Runtime: 10/23/2008 5:43:29 PM
LCM Sample ID: 0810.014-01
Vial #: 8



TRACE GC-Channel 1
Results (System
(10/24/2008 8:57:30 AM)
(Reprocessed))

Name	Height	Area
BBP	55813680	39983926
BOP	82418070	40981498

Method: C:\ChromQuest\Projects\Default\Method\Rastogi Phthalates Method.met
Instrument: GC/FID

Summary: 16 hour soxhlet extraction in dichloromethane on approx. 1g sample as per S. Rastogi phthalate analysis method. Restek RTX-1 30m x 0.32mm, d 0.1 um column. Start temperature 150 C, 5 C per min to 280 C, 15 min at 280 C. 3.2 ml per min He carrier gas, constant flow. 300 C PTV split injection of 1 ul. FID detector at 300 C.

Lab/Cor Materials, LLC (206) 508-1470 mail@labcormaterials.com
810 NW 45th Street, Seattle, WA 981078

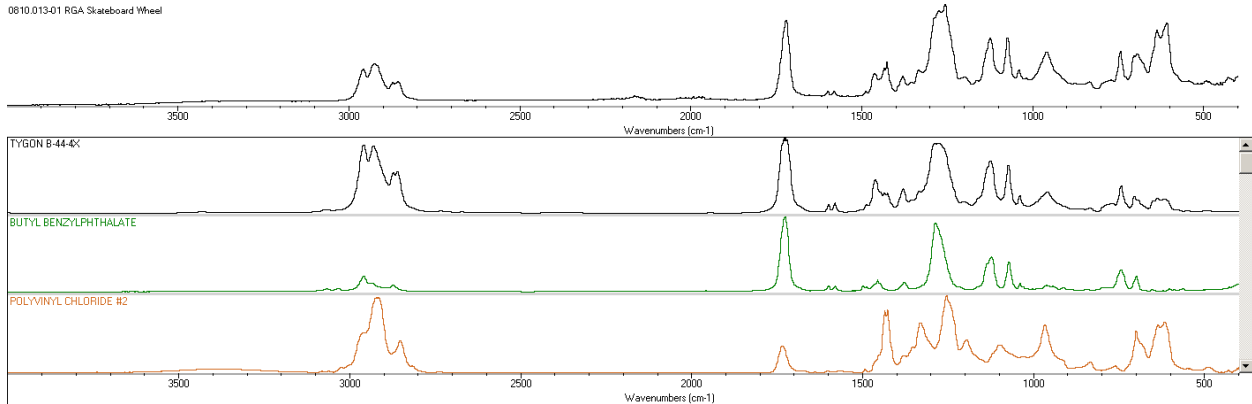


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FTIR Report

0810.013 RGA Skateboard Wheel

Spectrum Search Results



	Match	Title	Range	Folder	Filename	Index
1	75.60	TYGON B-44-4X	4000.0-400.0	HR Polymer Additives and Plasticizers	c:\my documents\omnic\libs\sea450_hr polymers and plasticizers.lbd	444
2	74.13	BUTYL BENZYLPHTHALATE	4000.0-400.0	HR Polymer Additives and Plasticizers	c:\my documents\omnic\libs\sea450_hr polymers and plasticizers.lbd	1558



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3	73.98	POLYVINYL CHLORIDE #2	4000.0-400.0	HR Polymer Additives and Plasticizers	c:\my docum ents\o mnic\lib s\sea4 50_hr polyme rs and plastici zers.lb d	338
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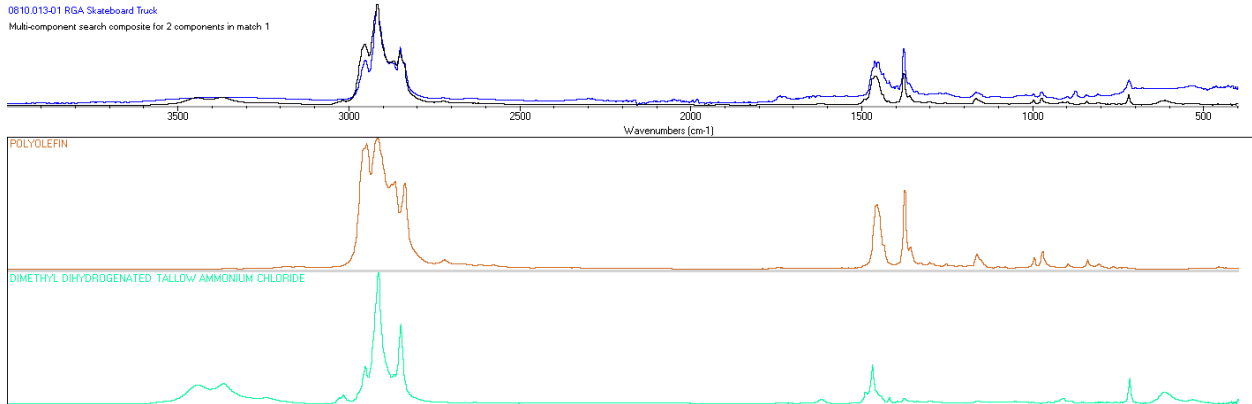


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FTIR Report

0810.013 RGA Skateboard Truck

Multi-Component Search Results



	Match	Title	Cumulative	Compo site%	Folder	File name	Index
1	79.07	POLYOLEFIN	48.22	48.76	HR Polymer Additives and Plasticizers	c:\my documents\omnic\libs\sea450_hr polymer s and plasticizers.lbd	609
		DIMETHYL DIHYDROGENATED TALLOW AMMONIUM CHLORIDE	79.07	51.24	HR Polymer Additives and Plasticizers	c:\my documents\omnic\libs\sea450_hr polymer s and plasticizers.lbd	269