

New Zealand Leather & Shoe Research Association Inc.



Fitzherbert Science Centres, Dairy Farm Road, Palmerston North
PO Box 8094, Hokowhitu, Palmerston North 4446
Ph: (06) 355 9028 Fax: (06) 354 1185
Email: info@lasra.co.nz

Client Address

Duncan Korsten
Bobux International Limited
PO Box 58649
Botany
AUCKLAND 2163

LASRA Technical Report

Report reference : AC-13-98-2
AC-13-120-2
AC-13-129-2
Date sample received : 15/02/13
Date of report : 01/03/13
Client order number : n/a

Sample Information

Reference : Undated letters Duncan Korsten
Description : One shoe style (721302 Step Up Ahoy Matey Dress Shoe)

Test Results

We have completed our analysis of this shoe style for phthalates, based on method ISO/TS 16181:2011, using an ultrasound extraction procedure.

The sample was referenced:

721302 Step Up Ahoy Matey Dress Shoe as per the following photograph.



Our results were as follows:

| Limits of Detection (%) | | | | | | | |
|-------------------------|--------------------------|------------------------------|----------------------------------|-----------------------------|-------------------------------|-------------------------------|------------------------------|
| Phthalate | Di-butyl phthalate (DBP) | Butyl benzyl phthalate (BBP) | Di-(2-ethylhexyl) phthalate DEHP | Di-n-octyl phthalate (DNOP) | Di-iso-nonyl phthalate (DINP) | Di-iso-decyl phthalate (DIDP) | Di-isobutyl phthalate (DIBP) |
| (%) | 0.0005 0.005(sole) | 0.0005 0.005(sole) | 0.0005 0.005(sole) | 0.0005 0.005(sole) | 0.0025 0.075(sole) | 0.0025 0.075(sole) | 0.0005 0.005(sole) |

ND= none detected

| Velcro | |
|-----------------------------------|-------------|
| Phthalate | Results (%) |
| Di-butyl phthalate (DBP) | ND |
| Butyl benzyl phthalate (BBP) | ND |
| Di-(2-ethylhexyl) phthalate DEHP) | ND |
| Di-n-octyl phthalate (DNOP) | ND |
| Di-iso-nonyl phthalate (DINP) | ND |
| Di-iso-decyl phthalate (DIDP) | ND |
| Di-isobutyl phthalate (DIBP) | ND |

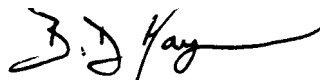
| Insole | |
|-----------------------------------|-------------|
| Phthalate | Results (%) |
| Di-butyl phthalate (DBP) | ND |
| Butyl benzyl phthalate (BBP) | ND |
| Di-(2-ethylhexyl) phthalate DEHP) | 0.00199 |
| Di-n-octyl phthalate (DNOP) | ND |
| Di-iso-nonyl phthalate (DINP) | ND |
| Di-iso-decyl phthalate (DIDP) | ND |
| Di-isobutyl phthalate (DIBP) | ND |

Guidance is available from LASRA regarding sampling; results can only apply to samples as received.. This information is provided for, or at the request of members in accordance with the Rules of the Association and without liability and may only be reproduced in full.

| Footbed | |
|------------------------------------|-------------|
| Phthalate | Results (%) |
| Di-butyl phthalate (DBP) | ND |
| Butyl benzyl phthalate (BBP) | ND |
| Di-(2-ethylhexyl) phthalate (DEHP) | 0.00369 |
| Di-n-octyl phthalate (DNOP) | ND |
| Di-iso-nonyl phthalate (DINP) | ND |
| Di-iso-decyl phthalate (DIDP) | 0.0025 |
| Di-isobutyl phthalate (DIBP) | ND |

| Sole | |
|------------------------------------|-------------|
| Phthalate | Results (%) |
| Di-butyl phthalate (DBP) | ND |
| Butyl benzyl phthalate (BBP) | ND |
| Di-(2-ethylhexyl) phthalate (DEHP) | 0.0690 |
| Di-n-octyl phthalate (DNOP) | ND |
| Di-iso-nonyl phthalate (DINP) | ND |
| Di-iso-decyl phthalate (DIDP) | ND |
| Di-isobutyl phthalate (DIBP) | ND |

analyses/assessment by : MP
 data checked by : BH
 report checked by : GH
 date : 01/03/13

signed : 

designation of signee : Brendon Hayman
 Laboratory Supervisor

Technical Services: 2.33