



TEST REPORT

NUMBER: SHAH00052706S1

APPLICANT: BOURNS, INC.
1200 COLUMBIA AVE.,
RIVERSIDE, CA 92507-2114, USA
ATTN: IAN DOYLE

DATE: APR 23, 2008

*THIS IS TO SUPERSEDE
REPORT NO. SHAH00052706
DATED APR 15, 2008*

SAMPLE DESCRIPTION:

THREE (3) PIECES OF SUBMITTED SAMPLE SAID TO BE :

ITEM NAME : SMD: LEAD FREE PLATING:
(1) MIXED ALL PARTS OF BODY (BLACK
NONMETAL) .
(2) SILVER COLORED METAL PIN (SILVERY
METAL) .
(3) BLACK PLASTIC BODY WITHOUT SOLDER PASTE
& DIE (BLACK PLASTIC) .
ITEM NO. : SMA PACKAGE FAMILY.
MATERIAL : METAL & RESIN.

TESTS CONDUCTED:

AS REQUESTED BY THE APPLICANT, FOR DETAILS REFER TO ATTACHED PAGE(S)

REMARK: NO SAMPLE IS SUBMITTED FOR TESTING. ALL TEST RESULTS STATED IN
THIS REPORT ARE TRANSFERRED FROM OUR TEST REPORT (SHJ0040241
DATED JAN 23, 2008)

TO BE CONTINUED

PREPARED AND CHECKED BY:
FOR INTERTEK TESTING SERVICES
LTD., SHANGHAI

AUTHORIZED BY:
FOR INTERTEK TESTING SERVICES
LTD., SHANGHAI

MYRA LV
CHEMICAL DIVISION MANAGER

STEPHEN TSANG
GENERAL MANAGER



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TESTS CONDUCTED

(A) TEST RESULT SUMMARY FOR RoHS DIRECTIVE:

<u>TESTING ITEM</u>	<u>RESULT (ppm)</u>
	(1)
CADMIUM (Cd) CONTENT (ppm)	ND (<2)
LEAD (Pb) CONTENT (ppm)	>10000
MERCURY (Hg) CONTENT (ppm)	ND (<2)
CHROMIUM VI (Cr ⁶⁺) CONTENT (ppm) (FOR NON-METAL)	ND (<1)
POLYBROMINATED BIPHENYLS (PBBs)	
MONOBROMOBIPHENYL (MonoBB) (ppm)	ND
DIBROMOBIPHENYL (DiBB) (ppm)	ND
TRIBROMOBIPHENYL (TriBB) (ppm)	ND
TETRABROMOBIPHENYL (TetraBB) (ppm)	ND
PENTABROMOBIPHENYL (PentaBB) (ppm)	ND
HEXABROMOBIPHENYL (HexaBB) (ppm)	ND
HEPTABROMOBIPHENYL (HeptaBB) (ppm)	ND
OCTABROMOBIPHENYL (OctaBB) (ppm)	ND
NONABROMOBIPHENYL (NonaBB) (ppm)	ND
DECABROMOBIPHENYL (DecaBB) (ppm)	ND
POLYBROMINATED DIPHENYL ETHERS (PBDEs)	
MONOBROMODIPHENYL ETHER (MonoBDE) (ppm)	ND
DIBROMODIPHENYL ETHER (DiBDE) (ppm)	ND
TRIBROMODIPHENYL ETHER (TriBDE) (ppm)	ND
TETRABROMODIPHENYL ETHER (TetraBDE) (ppm)	ND
PENTABROMODIPHENYL ETHER (PentaBDE) (ppm)	ND
HEXABROMODIPHENYL ETHER (HexaBDE) (ppm)	ND
HEPTABROMODIPHENYL ETHER (HeptaBDE) (ppm)	ND
OCTABROMODIPHENYL ETHER (OctaBDE) (ppm)	ND
NONABROMODIPHENYL ETHER (NonaBDE) (ppm)	ND
DECABROMODIPHENYL ETHER (DecaBDE) (ppm)	ND

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<u>TESTING ITEM</u>	<u>RESULT (ppm)</u>
	(2)
CADMIUM (Cd) CONTENT (ppm)	ND (<2)
LEAD (Pb) CONTENT (ppm)	21
MERCURY (Hg) CONTENT (ppm)	ND (<2)
CHROMIUM (VI) (Cr ⁶⁺) RESULT (FOR METAL)	N

<u>TESTING ITEM</u>	<u>RESULT (ppm)</u>
	(3)
LEAD (Pb) CONTENT (ppm)	4

REMARKS :

ppm = PARTS PER MILLION = mg/kg

< = LESS THAN

> = MORE THAN

ND = NOT DETECTED

N = NEGATIVE

THE SUBMITTED SAMPLE (1) WAS NOT HOMOGENOUS MATERIAL AND SAMPLING RANDOMLY.

NOTE :DecaBDE IN POLYMERIC APPLICATIONS IS EXEMPTED ACCORDING TO ROHS DIRECTIVE AMENDMENT 2005/717/EC.

(B) RoHS REQUIREMENT

RESTRICTED SUBSTANCES	LIMITS
CADMIUM (Cd)	0.01% (100 ppm)
LEAD (Pb)	0.1% (1000 ppm)
MERCURY (Hg)	0.1% (1000 ppm)
CHROMIUM (VI) (Cr ⁶⁺)	0.1% (1000 ppm)
POLYBROMINATED BIPHENYLS (PBBs)	0.1% (1000 ppm)
POLYBROMINATED DIPHENYL ETHERS (PBDEs)	0.1% (1000 ppm)

THE ABOVE LIMITS WERE QUOTED FROM 2002/95/EC AND AMENDMENT 2005/618/EC FOR HOMOGENEOUS MATERIAL.

TO BE CONTINUED



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(C) TEST METHOD :

TESTING ITEM	TESTING METHOD	REPORTING LIMIT
CADMIUM (Cd) CONTENT	WITH REFERENCE TO IEC 62321 -111/95/CDV, BY ACID DIGESTION UNTIL THE TESTED SAMPLE WAS TOTALLY DISSOLVED AND DETERMINED BY ICP-OES	2 ppm
LEAD (Pb) CONTENT	WITH REFERENCE TO IEC 62321 -111/95/CDV, BY ACID DIGESTION UNTIL THE TESTED SAMPLE WAS TOTALLY DISSOLVED AND DETERMINED BY ICP - OES	2 ppm
MERCURY (Hg) CONTENT	WITH REFERENCE TO IEC 62321 -111/95/CDV, BY ACID DIGESTION UNTIL THE TESTED SAMPLE WAS TOTALLY DISSOLVED AND DETERMINED BY ICP - OES	2 ppm
CHROMIUM (VI) (Cr ⁶⁺) CONTENT (FOR NON-METAL)	WITH REFERENCE TO IEC 62321 -111/95/CDV, BY ALKALINE DIGESTION AND DETERMINED BY UV-VIS SPECTROPHOTOMETER	1 ppm
CHROMIUM (VI) (Cr ⁶⁺) CONTENT (FOR METAL)	WITH REFERENCE TO IEC 62321 -111/95/CDV, BY BOILING WATER EXTRACTION AND DETERMINED BY UV-VIS SPECTROPHOTOMETER	0.02mg/kg with 50cm ² (IN TESTING SOLUTION)
POLYBROMINATED BIPHENYLS (PBBs) & POLYBROMINATED DIPHENYL ETHERS (PBDEs)	WITH REFERENCE TO IEC 62321 - 111/95/CDV, BY SOLVENT EXTRACTION AND DETERMINED BY GC/MS AND HPLC	5 ppm

NOTE: TESTS WERE CONDUCTED WITH REFERENCE TO 111/95/CDV VERSION 2007-10-12 WHICH IS STILL A DRAFT METHOD AND SUBJECT TO FUTURE CHANGES PRIOR TO PUBLICATION.

REPORTING LIMIT=QUANTIZATION LIMIT OF ANALYZE IN SAMPLE

DATE SAMPLE RECEIVED : JAN.17, 2008

TESTING PERIOD : JAN.17, 2008 TO JAN.22, 2008

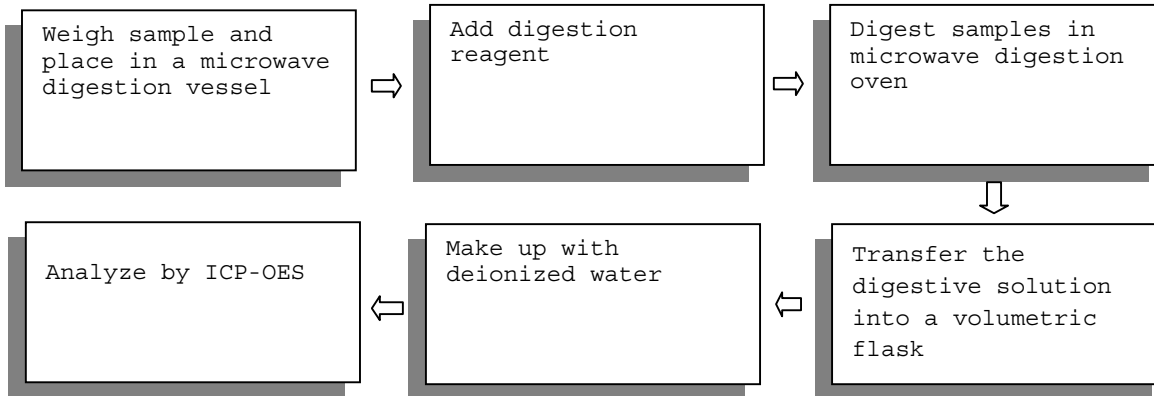
TO BE CONTINUED

TEST REPORT

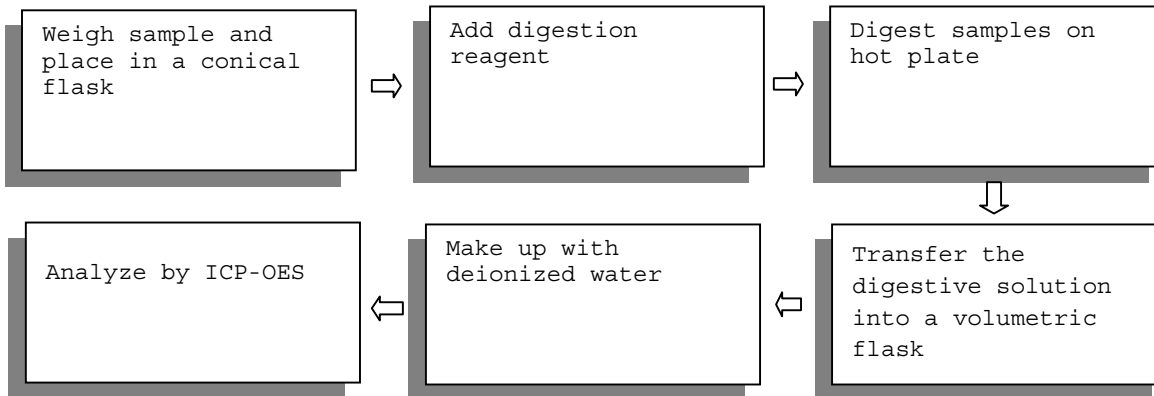
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TESTS CONDUCTED
MEASUREMENT FLOWCHART (IEC 62321)

1. TEST FOR Cd/Pb/Hg CONTENTS



2. TEST FOR Cd/Pb CONTENTS



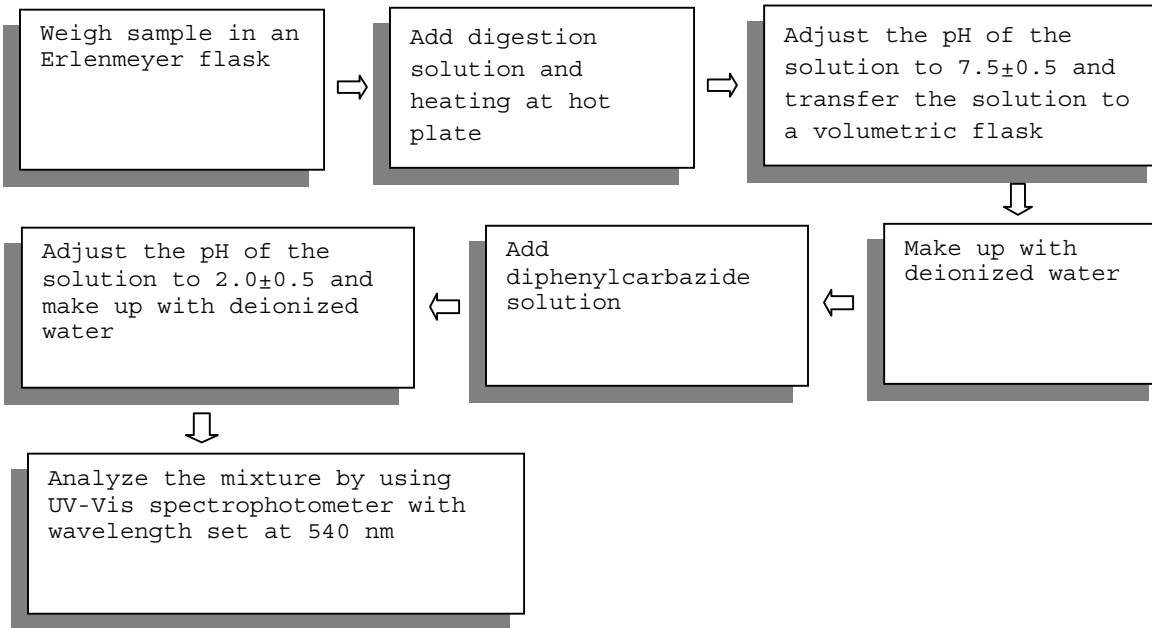
TO BE CONTINUED

TEST REPORT

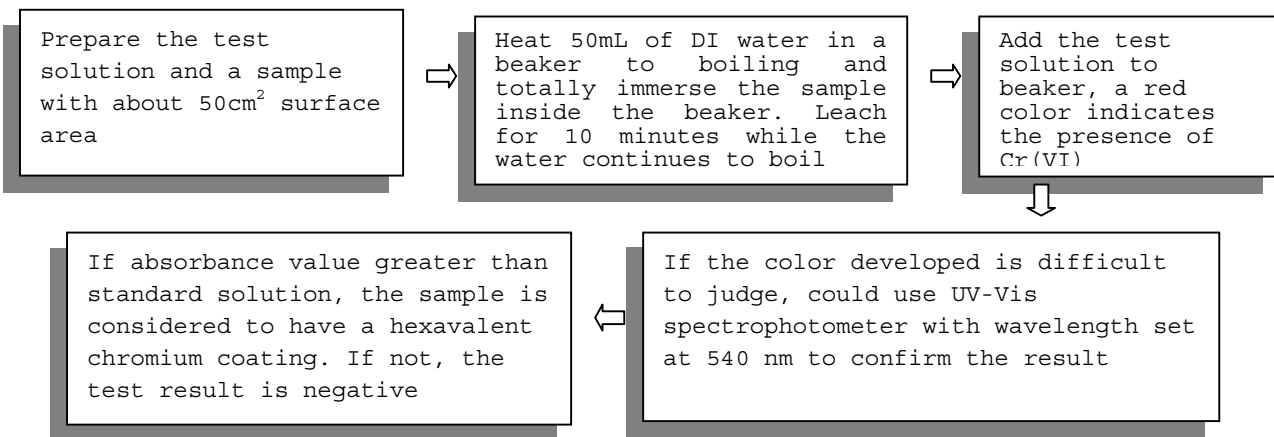
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TESTS CONDUCTED

3. TEST FOR CHROMIUM (VI) CONTENT



4. TEST FOR CHROMIUM (VI) CONTENT (BOILING WATER EXTRACTION ON METAL)



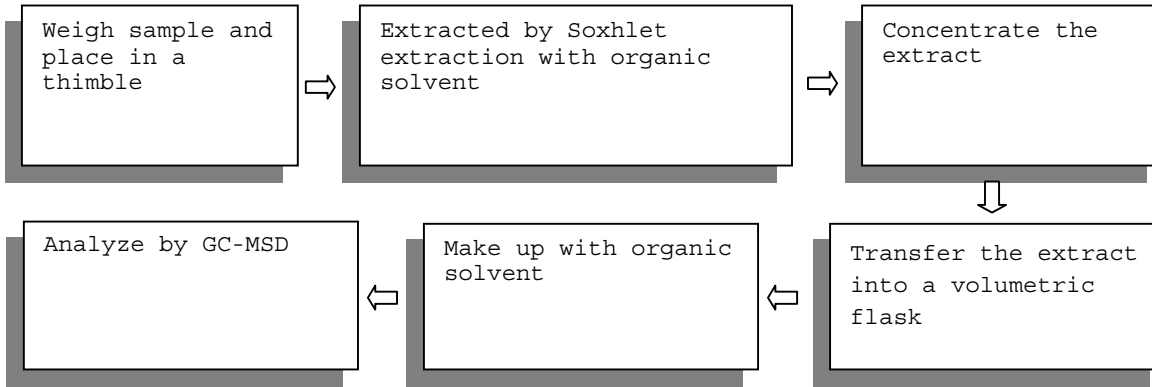
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5. TEST FOR PBBs/PBDEs CONTENTS



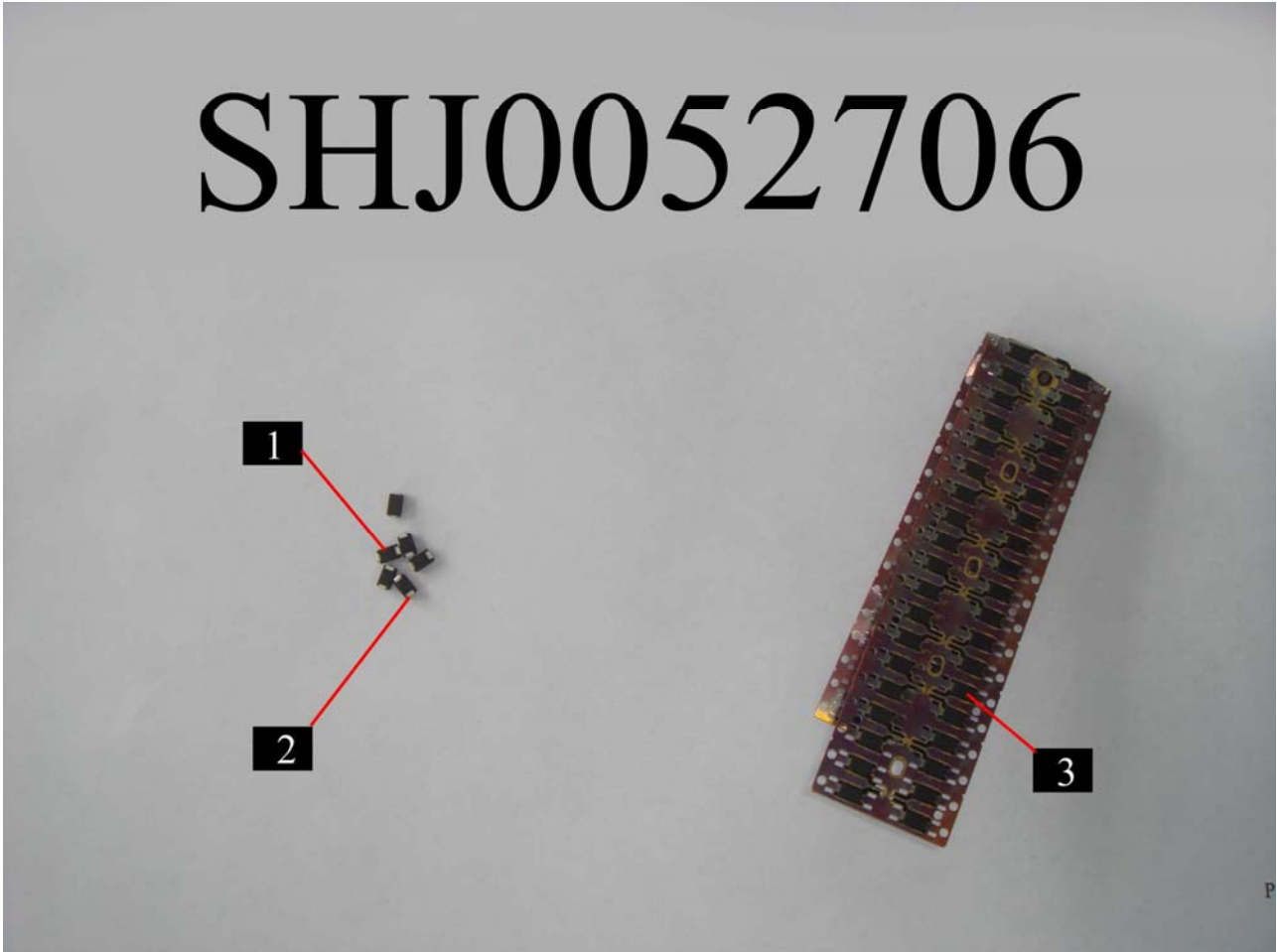
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TESTS CONDUCTED

SHJ0052706



END OF REPORT



To: Bourns, Inc.

Attention: Ian Doyle

Date: Apr 23, 2008

Re: Report Revision Notification

Intertek Testing Services Report Number SHAH00052706 Dated APR 15, 2008,
Please be informed that all the content recorded in the above captioned
report will be void. This captioned report is now supersede by a revised
Intertek Testing Services Report SHAH00052706S1.

Please return the original captioned report to us immediately.

Thank you for your attention.

PREPARED AND CHECKED BY:
FOR INTERTEK TESTING SERVICES
LTD., SHANGHAI

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CHEMICAL DIVISION MANAGER

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