



Testing Laboratory in the field of Eco testing recognized by EUROFINS following the standard ISO/IEC 17025. The recognition covers the test methods listed in the Recognition Certificate.



Test Report

Customer : Top Thermal Management Co., LTD.
1204 Venture Tower 43-5, Sameun-ri,
Jiksan-eup, Cheonan-Si, Chungcheongnam-
do, Korea

Customer No. : CHFd061023

Test report No. : CH061023RCH1087E1

Number of Samples : 1

Sample Description : MTRAN Container

Tests Requested : Pb, Hg, Cd, Cr(VI), PBBs, PBDEs

Date of Delivery : 2006. 10. 26

Test Period : 2006. 10. 26 – 2006. 10. 27

Test Place : ■ ChonAn

■ ChonAn, 2006. 10. 30. : EKChoe
Dr. Choe, E.- K. / Lab. Manager

Testing Laboratory

KITECH Products & Process Eco-Testing Center

Eco-Testing Lab.

35-3, HongChonRi, IbJangMyun,
ChonAnSi (330-825) Korea
Phone : +82-41-5898-594, 595, 598, 599
Fax : +82-41-5898-550, 460
e-mail : ecolab@ecolab.re.kr
homepage : [http:// www.ecolab.re.kr](http://www.ecolab.re.kr)

Shihwa-Testing Lab.

3Ga, 101B, Shihwa Industrial Complex,
Siheung-Si, Kyunggi-Do (429-450) Korea
Phone : +82-31-4966-701, 702, 711
Fax : +82-31-4966-730

The test result(s) exclusively refer to the sample(s) tested. The test result(s) could not be on advertisement and trial acts. This report shall not be reproduced without the written approval of KITECH Products & Process Eco-Testing Center.



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do, Korea

Customer No. : CHFd061023

Samples Tested : Description by Customer Lab. Code No.
MTRAN Container CHFd061023R1

Tests Conducted : Test Method Procedure

Pb, Cd, Hg	EPA 3052(M/W)	Digested, filtered and measured by ICP
Cr(VI)	EPA 3060 A	Extracted, colorized and measured by UV/VIS
PBBs & PBDEs	IEC draft	Extracted(or dissolved), clean up and measured by GC/MS

Test Results: Lab. Code No.		DL*	CHFd061023R1
Lead (Pb)	mg/kg	3.0	ND
Mercury (Hg)	mg/kg	0.2	ND
Cadmium (Cd)	mg/kg	0.6	ND
Chromium (VI)	mg/kg	0.1	ND

DL: Detection Limit, ND: Not detected

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Test Results: Lab. Code No.		DL	CHFd061023R1
Total	mg/kg		ND
Monobromobiphenyl	mg/kg	5	ND
Dibromobiphenyl	mg/kg	5	ND
Tribromobiphenyl	mg/kg	5	ND
Tetrabromobiphenyl	mg/kg	5	ND
Pentabromobiphenyl	mg/kg	5	ND
Hexabromobiphenyl	mg/kg	5	ND
Heptabromobiphenyl	mg/kg	10	ND
Octabromobiphenyl	mg/kg	10	ND
Nonabromobiphenyl	mg/kg	10	ND
Decabromobiphenyl	mg/kg	10	ND

Test Results: Lab. Code No.		DL	CHFd061023R1
Total	mg/kg		ND
Monobromodiphenylether	mg/kg	5	ND
Dibromodiphenylether	mg/kg	5	ND
Tribromodiphenylether	mg/kg	5	ND
Tetrabromodiphenylether	mg/kg	5	ND
Pentabromodiphenylether	mg/kg	5	ND
Hexabromodiphenylether	mg/kg	5	ND
Heptabromodiphenylether	mg/kg	5	ND
Octabromodiphenylether	mg/kg	5	ND
Nonabromodiphenylether	mg/kg	5	ND
Decabromodiphenylether	mg/kg	10	ND

DL: Detection Limit, ND: Not detected

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Customer : Top Thermal Management Co., LTD.
1204 Venture Tower 43-5, Sameun-ri,
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do, Korea

Customer No. : CHFd061023

Test report No. : CH061023RCH1088E1

Number of Samples : 1

Sample Description : MTRAN Working Fluid

Tests Requested : Pb, Hg, Cd, Cr(VI), PBBs, PBDEs

Date of Delivery : 2006. 10. 26

Test Period : 2006. 10. 26 – 2006. 10. 27

Test Place : ■ ChonAn

■ ChonAn, 2006. 10. 30. : EKChoe
Dr. Choe, E.- K. / Lab. Manager

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Customer : Top Thermal Management Co., LTD.
1204 Venture Tower 43-5, Sameun-ri,
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do, Korea

Customer No. : CHFd061023

Samples Tested : Description by Customer Lab. Code No.
MTRAN Working Fluid CHFd061023R2

Tests Conducted : Test Method Procedure
Pb, Cd, Hg EPA 3052(M/W) Digested, filtered and measured by ICP
Cr(VI) EPA 3060 A Extracted, colorized and measured by UV/VIS
PBBs & PBDEs IEC draft Extracted(or dissolved), clean up and measured by GC/MS

Test Results: Lab. Code No.		DL*	CHFd061023R2
Lead (Pb)	mg/kg	3.0	ND
Mercury (Hg)	mg/kg	0.2	ND
Cadmium (Cd)	mg/kg	0.6	ND
Chromium (VI)	mg/kg	0.1	ND

DL: Detection Limit, ND: Not detected

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Test Results: Lab. Code No.		DL	CHFd061023R2
Total	mg/kg		ND
Monobromobiphenyl	mg/kg	5	ND
Dibromobiphenyl	mg/kg	5	ND
Tribromobiphenyl	mg/kg	5	ND
Tetrabromobiphenyl	mg/kg	5	ND
Pentabromobiphenyl	mg/kg	5	ND
Hexabromobiphenyl	mg/kg	5	ND
Heptabromobiphenyl	mg/kg	10	ND
Octabromobiphenyl	mg/kg	10	ND
Nonabromobiphenyl	mg/kg	10	ND
Decabromobiphenyl	mg/kg	10	ND

Test Results: Lab. Code No.		DL	CHFd061023R2
Total	mg/kg		ND
Monobromodiphenylether	mg/kg	5	ND
Dibromodiphenylether	mg/kg	5	ND
Tribromodiphenylether	mg/kg	5	ND
Tetrabromodiphenylether	mg/kg	5	ND
Pentabromodiphenylether	mg/kg	5	ND
Hexabromodiphenylether	mg/kg	5	ND
Heptabromodiphenylether	mg/kg	5	ND
Octabromodiphenylether	mg/kg	5	ND
Nonabromodiphenylether	mg/kg	5	ND
Decabromodiphenylether	mg/kg	10	ND

DL: Detection Limit, ND: Not detected

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