

Report No. : **KR-150422-03-223-02**

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Client : **SK giobel chemical**

**26 jongno, jongno-gu, Seoul Korea**

The following merchandise was submitted and identified by the client :

Model Name : **Methylcyclohexane**

Received date : **April. 22. 2015**

Test Performing date : **April. 22. 2015 ~ May. 07. 2015**

Issued date : **May. 07. 2015**

Test Performed : KQTI tested the samples selected by applicant following results

Test Results : For further details, Please Refer to following pages

B. Y. Lee

Lab Manager



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Report No. : **KR-150422-03-223-02**  
 Sample No. : **1**  
 Sample Description : **Methylcyclohexane**

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## Heavy Metals

Test items	Unit	Test Method	MDL	Results
Cadmium(Cd)	mg/kg	IEC 62321 : 2008, ICP	0.5	N.D
Lead (Pb)	mg/kg	IEC 62321 : 2008, ICP	5	N.D
Mercury(Hg)	mg/kg	IEC 62321 : 2008, ICP	2	N.D
Hexavalent Chromium(CrVI)	mg/kg	IEC 62321 : 2008, UV/VIS	1	N.D

## Flame Retardants-PBBs/PBDEs

Test items	Unit	Test Method	MDL	Results
<b>PBBs (Polybrominated Biphenyls)</b>				
Monobromobiphenyl	mg/kg	IEC 62321 : 2008 , GC/MS	5	N.D
Dibromobiphenyl	mg/kg	IEC 62321 : 2008 , GC/MS	5	N.D
Tribromobiphenyl	mg/kg	IEC 62321 : 2008 , GC/MS	5	N.D
Tetrabromobiphenyl	mg/kg	IEC 62321 : 2008 , GC/MS	5	N.D
Pentabromobiphenyl	mg/kg	IEC 62321 : 2008 , GC/MS	5	N.D
Hexabromobiphenyl	mg/kg	IEC 62321 : 2008 , GC/MS	5	N.D
Heptabromobiphenyl	mg/kg	IEC 62321 : 2008 , GC/MS	5	N.D
Octabromobiphenyl	mg/kg	IEC 62321 : 2008 , GC/MS	5	N.D
Nonabromobiphenyl	mg/kg	IEC 62321 : 2008 , GC/MS	5	N.D
Decabromobiphenyl	mg/kg	IEC 62321 : 2008 , GC/MS	5	N.D
<b>PBDEs (Polybrominated Diphenyl Ethers)</b>				
Monobromodiphenyl ether	mg/kg	IEC 62321 : 2008 , GC/MS	5	N.D
Dibromodiphenyl ether	mg/kg	IEC 62321 : 2008 , GC/MS	5	N.D
Tribromodiphenyl ether	mg/kg	IEC 62321 : 2008 , GC/MS	5	N.D
Terabromodiphenyl ether	mg/kg	IEC 62321 : 2008 , GC/MS	5	N.D
Pentabromodiphenyl ether	mg/kg	IEC 62321 : 2008 , GC/MS	5	N.D
Hexabromodiphenyl ether	mg/kg	IEC 62321 : 2008 , GC/MS	5	N.D
Heptabromodiphenyl ether	mg/kg	IEC 62321 : 2008 , GC/MS	5	N.D
Octabromodiphenyl ether	mg/kg	IEC 62321 : 2008 , GC/MS	5	N.D
Nonabromodiphenyl ether	mg/kg	IEC 62321 : 2008 , GC/MS	5	N.D
Decabromodiphenyl ether	mg/kg	IEC 62321 : 2008 , GC/MS	5	N.D

NOTE : 1) N.D=Not Detected (<MDL)

2) MDL=Method Detection Limit

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Picture of sample as Received : Methylecyclohexane



**\*\*\*End\*\*\***

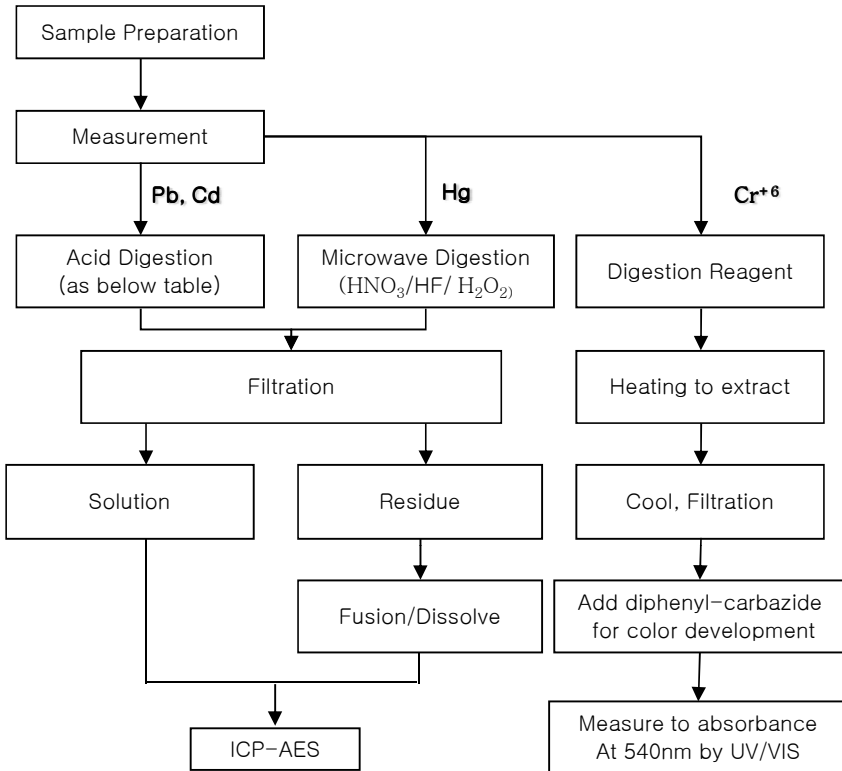
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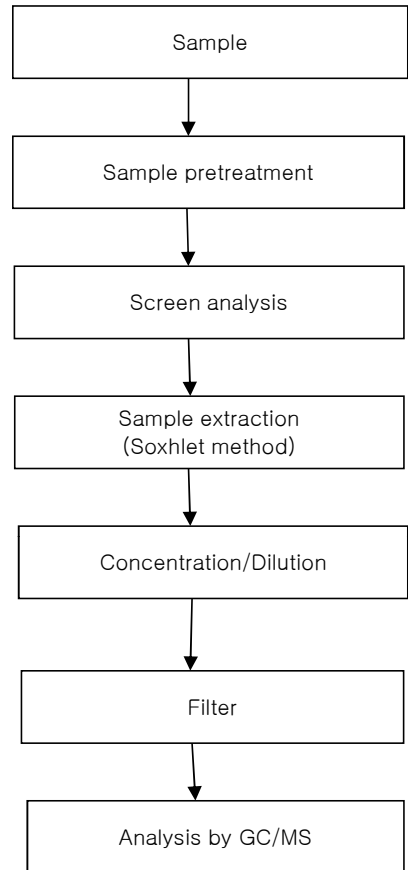
1) These samples were dissolved totally by method according to below flow chart.

**< Metal analytical Flow Chart >**



Sample	Digestion Acid
Metal	Aqua regia, HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub>
Glass	HNO <sub>3</sub> /HF
Plastic	H <sub>2</sub> SO <sub>4</sub> , HNO <sub>3</sub> , H <sub>2</sub> O <sub>2</sub> , HCl
Others	Any acid to total digestion

**< PBB/PBDE analytical Flow Chart >**



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