

LOTTE CHEMICAL CORPORATION115, Gajeongbuk-ro
Yuseong-gu, Daejeon
Korea

The following sample(s) was/were submitted and identified by/on behalf of the client as:-

SGS File No. : AYAA17-30481
Product Name : VS440
Item No./Part No. : N/A
Received Date : 2017. 05. 31
Test Period : 2017. 05. 31 to 2017. 06. 07
Test Results : For further details, please refer to following page(s)

SGS Korea Co., Ltd.



Jeff Jang / Chemical Lab Mgr

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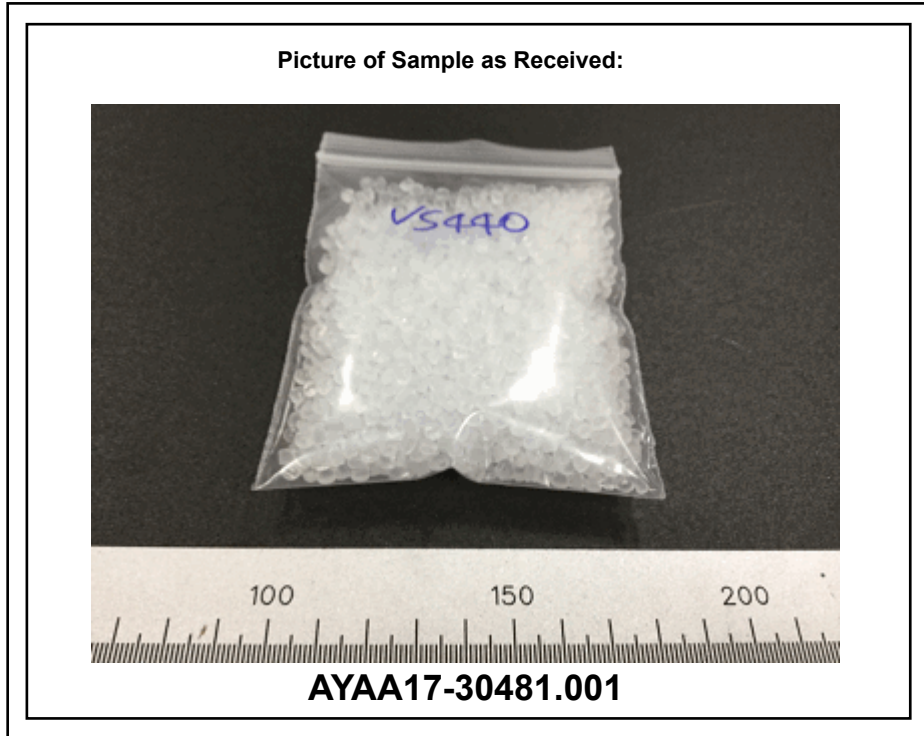
Sample No. : AYAA17-30481.001
Sample Description : VS440
Item No./Part No. : N/A
Materials : N/A

Phthalates

Test Items	Unit	Test Method	MDL	Results
Di-(2-ethylhexyl) phthalate (DEHP)	mg/kg	With reference to IEC 62321-8 , GC/MS	50	N.D.
Di-butyl phthalate (DBP)	mg/kg	With reference to IEC 62321-8 , GC/MS	50	N.D.
Benzyl butyl phthalate (BBP)	mg/kg	With reference to IEC 62321-8 , GC/MS	50	N.D.
Di-isobutyl phthalate (DIBP)	mg/kg	With reference to IEC 62321-8 , GC/MS	50	N.D.
Di-isodecyl phthalate (DIDP)	mg/kg	With reference to IEC 62321-8 , GC/MS	50	N.D.
Di-isononyl phthalate (DINP)	mg/kg	With reference to IEC 62321-8 , GC/MS	50	N.D.
Di-n-octyl phthalate (DNOP)	mg/kg	With reference to IEC 62321-8 , GC/MS	50	N.D.
Di-ethyl phthalate(DEP)	mg/kg	With reference to IEC 62321-8 , GC/MS	50	N.D.
Di-methyl phthalate (DMP)	mg/kg	With reference to IEC 62321-8 , GC/MS	50	N.D.
Di-n-pentyl phthalate(DPP, DnPP)	mg/kg	With reference to IEC 62321-8 , GC/MS	50	N.D.
Di-n-hexyl phthalate (DNHP)	mg/kg	With reference to IEC 62321-8 , GC/MS	50	N.D.
[di(C7-C11 alkyl)phthalate] linear and branched (DHNUP)	mg/kg	With reference to IEC 62321-8 , GC/MS	50	N.D.
[di(C6-C8 alkyl)phthalate] branched (DIHP)	mg/kg	With reference to IEC 62321-8 , GC/MS	50	N.D.
Di-(2-ethylhexyl) adipate (DEHA)	mg/kg	With reference to IEC 62321-8 , GC/MS	50	N.D.
Di-propyl phthalate(DPrP)	mg/kg	With reference to IEC 62321-8 , GC/MS	50	N.D.
Di-cyclohexyl phthalate (DCHP)	mg/kg	With reference to IEC 62321-8 , GC/MS	50	N.D.
Bis(2-methoxyethyl) phthalate (BMP, BMEP, DMEP)	mg/kg	With reference to IEC 62321-8 , GC/MS	50	N.D.
Di-isooctyl phthalate (DIOP)	mg/kg	With reference to IEC 62321-8 , GC/MS	50	N.D.
Di-n-nonyl phthalate (DNP)	mg/kg	With reference to IEC 62321-8 , GC/MS	50	N.D.

- NOTE:
- (1) N.D. = Not detected.(<MDL)
 - (2) mg/kg = ppm
 - (3) MDL = Method Detection Limit
 - (4) - = No regulation
 - (5) ** = Qualitative analysis (No Unit)
 - (6) Negative = Undetectable / Positive = Detectable

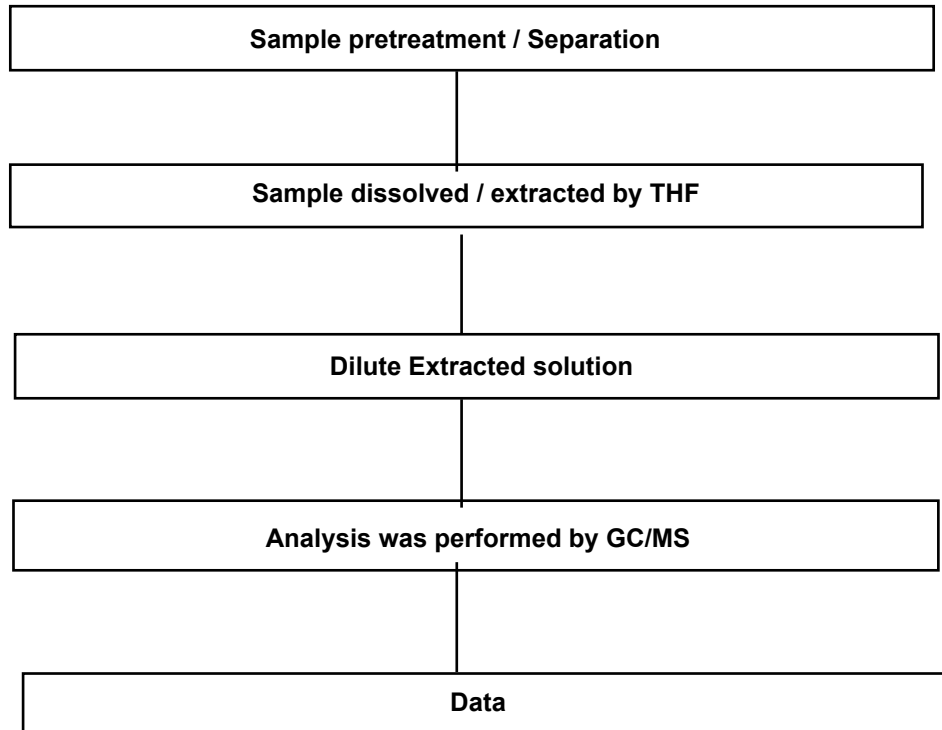
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Flow Chart for Phthalate Test



*** End of Report ***

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