

Applicant : SK utis

Address: 652-10, Choji-dong, Danwan-ku,

Ansan-city, Kyungki-do, Korea

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Report No. RT10R-S1142-004-E Date: Mar. 22, 2010

Sample Description : The following submitted sample(s) said to be:-

Name/Type of Product : eSORBA HD Sample ID No. : RT10R-S1142-004

Item No. : HD E-SD Manufacturer/Vender : SK utis

Sample received : Mar. 17, 2010

Testing Date : Mar. 17, 2010 ~ Mar. 22, 2010

Testing Laboratory : Intertek Testing Center

Testing Environment : Temperature : (  $24 \pm 2$  )  $^{\circ}$ C, Humidity : (  $60 \pm 5$  )  $^{\circ}$ R.H.

Test Type : RoHS wet chemical analysis
Test Method(s) : Please see the following page(s).
Test Result(s) : Please see the following page(s).

Approved by, Authorized by,

Jade Jang / Lab. Technical Manager

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Bo Park / Lab. General Manager

<sup>\*</sup> Note 1 : The test results presented in this report relate only to the object tested.

<sup>\*</sup> Note 2: This report shall not be reproduced except in full without the written approval of the testing laboratory.

<sup>\*</sup> Note 3: The item no. is assigned by client and indicated according to their requirement and guarantee letter.



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Report No. RT10R-S1142-004-E Date: Mar. 22, 2010

Sample ID No. : RT10R-S1142-004 Sample Description : eSORBA HD

Test Items	Unit	Test Method	MDL	Results		
Cadmium (Cd)	mg/kg	With reference to IEC 62321 Edition 1.0 : 2008, by acid digestion and determined by ICP-OES	0.5	N.D.		
Lead (Pb)	mg/kg		5	N.D.		
Mercury (Hg)	mg/kg		2	N.D.		
Hexavalent Chromium (Cr <sup>6+</sup> ) (For non-metal)	mg/kg	With reference to IEC 62321 Edition 1.0 : 2008, by alkaline digestion and determined by UV-VIS Spectrophotometer	1	N.D.		
Polybrominated Biphenyl (PBBs)						
Monobromobiphenyl	mg/kg		5	N.D.		
Dibromobiphenyl	mg/kg		5	N.D.		
Tribromobiphenyl	mg/kg		5	N.D.		
Tetrabromobiphenyl	mg/kg	With reference to	5	N.D.		
Pentabromobiphenyl	mg/kg	IEC 62321 Edition 1.0 : 2008, by solvent extraction and determined by GC/MS	5	N.D.		
Hexabromobiphenyl	mg/kg		5	N.D.		
Heptabromobiphenyl	mg/kg		5	N.D.		
Octabromobiphenyl	mg/kg		5	N.D.		
Nonabromobiphenyl	mg/kg		5	N.D.		
Decabromobiphenyl	mg/kg		5	N.D.		
Polybrominated Diphenyl Ether (PBDEs)						
Monobromodiphenyl ether	mg/kg	With reference to IEC 62321 Edition 1.0 : 2008, by solvent extraction and determined by GC/MS	5	N.D.		
Dibromodiphenyl ether	mg/kg		5	N.D.		
Tribromodiphenyl ether	mg/kg		5	N.D.		
Tetrabromodiphenyl ether	mg/kg		5	N.D.		
Pentabromodiphenyl ether	mg/kg		5	N.D.		
Hexabromodiphenyl ether	mg/kg		5	N.D.		
Heptabromodiphenyl ether	mg/kg		5	N.D.		
Octabromodiphenyl ether	mg/kg		5	N.D.		
Nonabromodiphenyl ether	mg/kg		5	N.D.		
Decabromodiphenyl ether	mg/kg		5	N.D.		

Tested by: Nikkie Lee, Peter Kim, Ellen Jung, Jessica Kang

Notes: mg/kg = ppm = parts per million

 $\leq$  = Less than

N.D. = Not detected ( < MDL)MDL = Method detection limit



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Report No. RT10R-S1142-004-E Date: Mar. 22, 2010

Sample ID No. : RT10R-S1142-004 Sample Description : eSORBA HD

Test Items	Unit	Test Method	MDL	Results
Bromine (Br)	mg/kg	With reference to EN 14582, by oxygen combustion with bomb and determined by IC	30	N.D.
Chlorine (CI)	mg/kg	With reference to EN 14582, by oxygen combustion with bomb and determined by IC	30	194
Fluorine (F)	mg/kg	With reference to EN 14582, by oxygen combustion with bomb and determined by IC	30	N.D.
lodine (I)	mg/kg	With reference to EN 14582, by oxygen combustion with bomb and determined by IC	30	N.D.

Tested by: Nikkie Lee

Notes: mg/kg = ppm = parts per million

 $\leq$  = Less than

N.D. = Not detected ( <MDL)
MDL = Method detection limit

<sup>\*</sup> View of sample as received;-



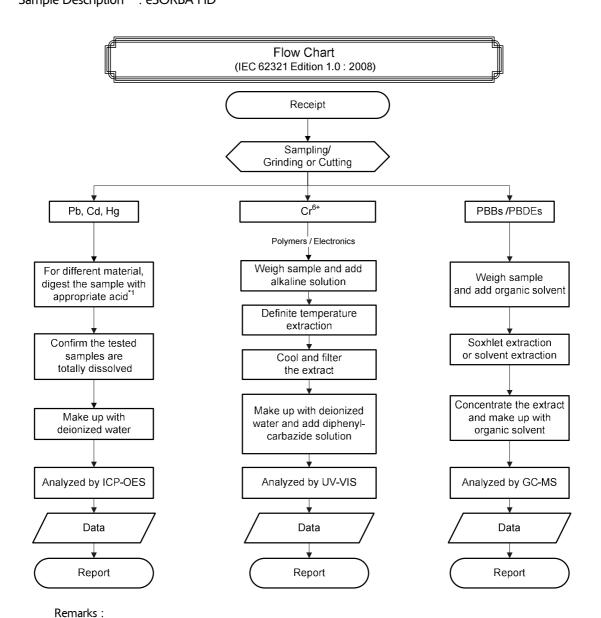


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Sample ID No. : RT10R-S1142-004 Sample Description : eSORBA HD

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### \*1 : List of appropriate acid :

Material	Acid added for digestion
Polymers	HNO <sub>3,</sub> HCl, HF, H <sub>2</sub> O <sub>2</sub> , H <sub>3</sub> BO <sub>3</sub>
Metals	HNO <sub>3</sub> , HCI, HF
Electronics	HNO <sub>3</sub> , HCl, H <sub>2</sub> O <sub>2</sub> , HBF <sub>4</sub>

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Sample ID No. : RT10R-S1142-004 Sample Description : eSORBA HD

#### Flow Chart (Halogen)

