

TEST REPORT

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REPORT NUMBER : TURT190050329
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(alikemal@leba.com.tr; ilke@leba.com.tr)
SAMPLE DESCRIPTION : One sample of DOTP Liquid item
DATE IN : 19 March ,2019 (09:19:00)
DATE OUT : 22 March ,2019
REQUEST. RoHS Test was performed according to 2015/863/EU Directive.
RESULTS: See attachment

| | | CONCLUSION |
|----------|-------------|------------|
| PART | DESCRIPTION | |
| Sample 1 | Sample | Pass |

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(A) TEST RESULT SUMMARY ACCORDING TO IEC 62321

Electrotechnical Products-Determination of Levels of Six Regulated Substances

| TESTING ITEM | RESULT |
|--|-----------------|
| | Sample 1 |
| | Part |
| Cadmium (Cd) Content | ND |
| Chromium VI (Cr+6) Content (ppm) (for non- metal) | ND |
| Chromium VI (Cr+6) Content (µg/cm ²) (for metal) | NA |
| Lead (Pb) Content | ND |
| Mercury (Hg) Content | ND |
| Flame Retardants | |
| Polybrominated Biphenyls (PBB) | NA |
| Monobromobiphenyl (MonoBB) | NA |
| Dibromobiphenyl (DiBB) | NA |
| Tribromobiphenyl (TriBB) | NA |
| Tetrabromobiphenyl (TetraBB) | NA |
| Pentabromobiphenyl (PentaBB) | NA |
| Hexabromobiphenyl (HexaBB) | NA |
| Heptabromobiphenyl (HeptaBB) | NA |
| Octabromobiphenyl (OctaBB) | NA |
| Nonabromobiphenyl (NonaBB) | NA |
| Decabromobiphenyl (DecaBB) | NA |
| Polybrominated Diphenyl Ethers (PBDE) | NA |
| Monobromodiphenyl Ether (MonoBDE) | NA |
| Dibromodiphenyl Ether (DiBDE) | NA |
| Tribromodiphenyl Ether (TriBDE) | NA |
| Tetrabromodiphenyl Ether (TetraBDE) | NA |
| Pentabromodiphenyl Ether (PentaBDE) | NA |
| Hexabromodiphenyl Ether (HexaBDE) | NA |
| Heptabromodiphenyl Ether (HeptaBDE) | NA |
| Octabromodiphenyl Ether (OctaBDE) | NA |
| Nonabromodiphenyl Ether (NonaBDE) | NA |
| Decabromodiphenyl Ether (DecaBDE) | NA |

Remarks : ppm=Parts per million based on dry weight of sample

µg/cm²=Microgram per square centimetre

mg/kg with 50 cm²=Milligram per kilogram with 50 square centimetre

ND =Not detected NA =Not applicable NR =Not requested

Estimated Total Uncertainty = ((Heavy Metal: ±7% , PBB/PBDE: ±6%, Phthalates: ±6%))

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| TESTING ITEM | RESULT |
|--|----------|
| | Sample 1 |
| | Part |
| Phthalates | |
| Dibutyl phthalate (DBP) (84-74-2) | ND |
| Di(2-ethylhexyl) phthalate (DEHP) (117-81-7) | ND |
| Benzyl butyl phthalate (BBP) (85-68-7) | ND |
| Diisobutyl Phthalate (DIBP) (84-69-5) | ND |

Remarks : ppm=Parts per million based on dry weight of sample

µg/cm²=Microgram per square centimetremg/kg with 50 cm²=Milligram per kilogram with 50 square centimetre

ND =Not detected NA =Not applicable NR =Not requested

Estimated Total Uncertainty = ((Heavy Metal: ±7% , PBB/PBDE: ±6%, Phthalates: ±6%))

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(B) REQUIREMENT:

| SUBSTANCE | LIMITS | |
|---|---|-------------------------------|
| Cadmium (Cd) Content | 0.01 % (100 ppm) | |
| Chromium VI (Cr+6) Content (ppm) (for non metal) | 0.1 % (1000 ppm) | |
| Chromium VI (Cr+6) Content ($\mu\text{g}/\text{cm}^2$) (for metal) | <u>Colorimetric result</u> | <u>Qualitative Result</u> |
| | < 0.10 $\mu\text{g}/\text{cm}^2$ | Negative |
| | $\geq 0.10 \mu\text{g}/\text{cm}^2$ and $\leq 0.13 \mu\text{g}/\text{cm}^2$ | Inconclusive |
| | > 0.13 $\mu\text{g}/\text{cm}^2$ | Positive |
| Lead (Pb) Content | 0.1 % (1000 ppm) | |
| Mercury (Hg) Content | 0.1 % (1000 ppm) | |
| Flame Retardants | 0.1 % (1000 ppm) | |
| Dibutyl Phthalate (DBP) | 0.1 % (1000 ppm) | |
| Diethyl Hexyl Phthalate (DEHP) | 0.1 % (1000 ppm) | |
| Benzyl Butyl Phthalate (BBP) | 0.1 % (1000 ppm) | |
| Diisobutyl Phthalate (DIBP) | 0.1 % (1000 ppm) | |

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(C) TEST METHOD :

| Testing Item | Testing Method | Reporting Limit |
|---------------------------------------|--|--|
| Cadmium (Cd)Content | With reference to IEC 62321-5:2013,by microwave or acid digestion and determined by ICP-OES | Plastic : 2.5 ppm, Metal : 5 ppm, Ceramic : 1.25 ppm |
| Lead (Pb)Content | With reference to IEC 62321-5:2013,by microwave or acid digestion and determined by ICP-OES | Plastic : 5 ppm, Metal : 10 ppm, Ceramic : 2.5 ppm |
| Mercury (Hg)Content | With reference to IEC 62321-4:2017,by microwave or acid digestion and determined by ICP-OES | Plastic : 5 ppm, Metal : 10 ppm, Ceramic : 2.5 ppm |
| Chromium VI (Cr6+) (For non-metal) | With reference to IEC 62321-7-2:2017,by alkaline digestion and determined by UV-VIS spectrophotometer | Plastic : 25 ppm (PVC based) /8.33 ppm (other), Ceramic : 8.33 ppm |
| Chromium VI (Cr6+) (For metal) | With reference to IEC 62321-7-1:2015 ,by boiling water extraction and determined by UV-VIS spectrophotometer | 0.1 mg/kg with 50 cm ² (IN TESTING SOLUTION) |
| PBBs/PBDEs | With reference to IEC 62321-6:2015,by solvent extraction and determined by GC/MS and HPLC | 5 ppm |
| Phthalates | With reference to IEC 62321-8 (111/321/CD), by solvent extraction and determined by GC-MS. | 50 ppm |

END OF TEST REPORT