



Job No./Report NoTR1502613

Date:27 March 2019

Page 1 of 7

LUFTCHEM ENDÜSTRİYEL KİMYA LTD.ŞTİ EGEMENLİK MAH.AYDINLAR CAD.NO:101

To the attention of Feray Emil

following sample(s) were submitted and identified on behalf of the clients as

TR1502613 SGS Job No.:

Tested sample description: Luft Mold F18-008

Manufacturer Luftchem End.Kim.Ltd.Şti

Date of sample reception: 22 March 2019

Testing period: 22 March 2019 ~ 27 March 2019

Test requested: Selected test (s) as requested by client.

Test method: Please refer to next page(s).

Conclusion: Based on the performed tests on selected part of submitted samples, the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB),

Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Unless further specified in an individual contract the sample(s) retention time is 30 days."

In this Test Report tests marked (1) are included in the IAS Accreditation Scope of this Laboratory. Opinions and interpretations expressed herein are outside the scope of IAS Accreditation.

[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-







Job No./Report NoTR1502613

Date:27 March 2019

Page 2 of 7

The test results relate to the tested items only. Test reports without SGS seal and authorized signatures are invalid. Reported results do not include uncertainties.

Issued in Istanbul Signed for and on behalf of SGS Supervise Gözetme Etüd Kontrol Servisleri A.Ş.

Selen Harman

Customer Services Team Leader

Yağız Barın Section Manager



Test results:

Test Part Description:

Specimen No. SGS Sample ID Description

Material

Colour

Α1 Luft Mold F18-008 Transparent

Remarks:

(1) 1mg/kg=0.0001%

(2) MDL = Method Detection Limit

ND = Not Detected (<MDL)

= Not Regulated

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-

document.htm.

Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Unless further specified in an individual contract the sample(s) retention time is 30 days."

In this Test Report tests marked (1) are included in the IAS Accreditation Scope of this Laboratory. Opinions and interpretations expressed herein are outside the scope of IAS Accreditation.

SGS Supervise Gözetme Etüd Kont<u>rol</u> İş İstanbul Plaza Bağlar Mah. Osmanpaşa Cad. No:95 E Girişi Güneşli 34209 Servisleri A. Ş. t (90-212) 368 40 00 t (90-212) 306 47 92/92

İstanbul - Turkey www.tr.sgs.com





Job No./Report NoTR1502613

Date:27 March 2019

Page 3 of 7

Flame Retardants (ROHS)1

Test Method: With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.

| Test Item(s): | Unit | Results | <u>MDL</u> | <u>Limit</u> |
|--------------------|-------|---------|------------|--------------|
| | | A1 | | |
| Sum of PBBs | mg/kg | n.d. | - | 1000 |
| Monobromobiphenyl | mg/kg | n.d. | 5 | - |
| Dibromobiphenyl | mg/kg | n.d. | 5 | - |
| Tribromobiphenyl | mg/kg | n.d. | 5 | - |
| Tetrabromobiphenyl | mg/kg | n.d. | 5 | - |
| Hexabromobiphenyl | mg/kg | n.d. | 5 | - |
| Pentabromobiphenyl | mg/kg | n.d. | 5 | - |
| Heptabromobiphenyl | mg/kg | n.d. | 5 | - |
| Octabromobiphenyl | mg/kg | n.d. | 5 | - |
| Nonabromobiphenyl | mg/kg | n.d. | 5 | - |
| Decabromobiphenyl | mg/kg | n.d. | 5 | - |

In this Test Report tests marked (1) are included in the IAS Accreditation Scope of this Laboratory. Opinions and interpretations expressed herein are outside the scope of IAS Accreditation.

SGS Supervise Gözetme Etüd Kont<u>rol</u> İş İstanbul Plaza Bağlar Mah. Osmanpaşa Cad. No:95 E Girişi Güneşli 34209 Servisleri A. Ş. t/90-212) 368 40 00 1 (90-212) 300 47 00:00

İstanbul – Turkey www.tr.sgs.com

[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-

Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Unless further specified in an individual contract the sample(s) retention time is 30 days."





Job No./Report NoTR1502613

Date:27 March 2019

Page 4 of 7

| Test Item(s): | Unit | Results | MDL | <u>Limit</u> |
|---------------------------------------|-------|---------|-----|--------------|
| \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | A1 | | |
| | | | | |
| Sum of PBDEs | mg/kg | n.d. | - | 1000 |
| | | | | |
| Monobromodiphenyl ether | mg/kg | n.d. | 5 | - |
| | | | | |
| Dibromodiphenyl ether | mg/kg | n.d. | 5 | - |
| | | | | |
| Tribromodiphenyl ether | mg/kg | n.d. | 5 | - |
| | | | | |
| Tetrabromodiphenyl ether | mg/kg | n.d. | 5 | - |
| | | | | |
| Hexabromodiphenyl ether | mg/kg | n.d. | 5 | - |
| | | | | |
| Pentabromodiphenyl ether | mg/kg | n.d. | 5 | - |
| | | | | |
| Heptabromodiphenyl ether | mg/kg | n.d. | 5 | - |
| | | | | |
| Octabromodiphenyl ether | mg/kg | n.d. | 5 | - |
| | | | | |
| Nonabromodiphenyl ether | mg/kg | n.d. | 5 | - |
| | | | | |
| Decabromodiphenyl ether | mg/kg | n.d. | 5 | - |

(a) mg/kg = ppm; 0.1wt % = 1000 ppm

(b) n.d. = Not Detected

(c) MDL = Method Detection Limit

(d) " - " = Not Regulated

The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

IEC 62321 series is equivalent to EN 62321 series

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258637,25

Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Unless further specified in an individual contract the sample(s) retention time is 30 days."

In this Test Report tests marked (1) are included in the IAS Accreditation Scope of this Laboratory. Opinions and interpretations expressed herein are outside the scope of IAS Accreditation.

SGS Supervise Gözetme Etüd Kont<u>rol</u> İş İstanbul Plaza Bağlar Mah. Osmanpaşa Cad. No:95 E Girişi Güneşli 34209 Servisleri A. Ş. t/90-212) 368 40 00 1 (90-212) 300 47 00:00

İstanbul – Turkey www.tr.sgs.com

[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-





Job No./Report NoTR1502613

Date:27 March 2019

Page 5 of 7

Heavy Metals (ROHS)1

Test Method:

- 1) With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
- 2) With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
- 3) With reference to IEC 62321-4:2013+A1:2017, determination of Mercury by ICP-OES.

| Test Item(s): | Unit | Results | <u>MDL</u> | <u>Limit</u> |
|----------------------------|-------|---------|------------|--------------|
| | | A1 | | |
| Cadmium (Cd) | mg/kg | n.d. | 2 | 100 |
| Lead (Pb) | mg/kg | n.d. | 2 | 1000 |
| Mercury (Hg) | mg/kg | n.d. | 2 | 1000 |
| Hexavalent Chromium (CrVI) | mg/kg | n.d.* | 8 | 1000 |

- (a) mg/kg = ppm; 0.1wt % = 1000 ppm
- (b) n.d. = Not Detected
- (c) MDL = Method Detection Limit
- (d) " * " = Test result for Chromium VI is considered as "n.d" since Total Chromium is not found by IEC 62321 test method.
- (e) " " = Not Regulated

The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

IEC 62321 series is equivalent to EN 62321 series

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258637,25

Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Unless further specified in an individual contract the sample(s) retention time is 30 days."

In this Test Report tests marked (1) are included in the IAS Accreditation Scope of this Laboratory. Opinions and interpretations expressed herein are outside the scope of IAS Accreditation.

[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-





Job No./Report NoTR1502613

Date:27 March 2019

Page 6 of 7

Phthalates

Test Method: With reference to IEC 62321-8:2017, determination of phthalates by GC-MS

| Test Item(s): | Unit | Results | MDL | Limit |
|-------------------------------------|-------|---------|-----|-------|
| | | A1 | | |
| Bis (2-ethylhexyl) phthalate (DEHP) | mg/kg | n.d. | 50 | 1000 |
| Butyl benzyl phthalate (BBP) | mg/kg | n.d. | 50 | 1000 |
| Dibutyl phthalate (DBP) | mg/kg | n.d. | 50 | 1000 |
| Diisobutyl phthalate (DIBP) | mg/kg | n.d. | 50 | 1000 |

- (a) mg/kg = ppm; 0.1wt % = 1000 ppm
- (b) n.d. = Not Detected
- (c) MDL = Method Detection Limit
- 1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- IEC 62321 series is equivalent to EN 62321 series
- http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP ORG ID,FSP LANG ID:1258637,25 2) On 4 June 2015, Commission Directive (EU) 2015/863 was published in the Official Journal of the European Union (OJEU) to include the phthalates BBP, DBP, DEHP and DIBP into ANNEX II of the Rohs Recast Directive. The new law restricts each phthalate to no more than 0.1% in each homogeneous material of an electrical product.
- 3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.
- 4) The restriction of DEHP, BBP, DBP and DIBP shall not apply to cables or spare parts for the repair, the reuse, the updating of functionalities or upgrading of capacity of EEE placed on the market before 22 July 2019, and of medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, placed on the market before 22 July 2021.
- 5) The restriction of DEHP, BBP and DBP shall not apply to toys which are already subject to the restriction of DEHP, BBP and DBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.

Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Unless further specified in an individual contract the sample(s) retention time is 30 days."

time is 30 days.

In this Test Report tests marked (1) are included in the IAS Accreditation Scope of this Laboratory. Opinions and interpretations expressed herein are outside the scope of IAS Accreditation.

SGS Supervise Gözetme Etüd Kont<u>rol</u> İş İstanbul Plaza Bağlar Mah. Osmanpaşa Cad. No:95 E Girişi Güneşli 34209 Servisleri A. Ş. t (90-212) 369 40 00 14 (90-212) 300 47 000 47

[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-





Job No./Report NoTR1502613

Date:27 March 2019

Page 7 of 7



End of Test Report

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-

Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Unless further specified in an individual contract the sample(s) retention time is 30 days."

In this Test Report tests marked (1) are included in the IAS Accreditation Scope of this Laboratory. Opinions and interpretations expressed herein are outside the scope of IAS Accreditation.

SGS Supervise Gözetme Etüd Kont<u>rol</u> Servisleri A. Ş.

İş İstanbul Plaza Bağlar Mah. Osmanpaşa Cad. No:95 E Girişi Güneşli 34209

İstanbul – Turkey www.tr.sgs.com