

No. CRSSA/00366/17

CRS Ref. CRSSA/17/0084/Max

Date: 16/01/2017

Page: 1 of 9

MAX FASTENERS (M) SDN BHD LOT 55, KULIM INDUSTRIAL ESTATE P.O. BOX 1, 09007, KULIM, KEDAH

The following merchandise was (were) submitted and identified by the client as:

Sample Description

MAX STAPLE - No. 10 series consist of-

(No.10-1M, No.10-12M)

Sample Receiving Date

10/01/2017

Testing Period

10/01/2017 to 16/01/2017

Test Requested

Selected test(s) as requested by client

Test Method

Please refer to next page(s).

Test Results

Please refer to next page(s).

Analysts

Tan Mei Ann & Shirley Then

SGS (MALAYSIA) SDN. BHD.

TAY SIAM PINE
B.Sc.(HONS) MMIC
TECHNICAL MANAGER

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sus.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sus.com/en/Terms-and-Conditions/Terms-e-Document.aspx. 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 Clients 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 and such sample(s) are retained for seven days (perishable food sample) or three months only.



No. CRSSA/00366/17 CRS Ref. CRSSA/17/0084/Max Date: 16/01/2017

Page: 2 of 9

Test results:

Test Part Description:

Sample Description

MAX STAPLE - No. 10 series consist of-

(No.10-1M, No.10-12M)

RoHS Directive 2011/65/EU Annex II

| Test Item(s): | Unit | Test Method | Results | MDL | Limît |
|------------------------------|--------------------|---|---------|------|---------|
| Cadmium (Cd) | mg/kg | With reference to IEC 62321-5:2013 (Determination of Cd by ICP-OES) | N.D. | 2 | 100 |
| Lead (Pb) | mg/kg | With reference to IEC 62321-5:2013 (Determination of Pb by ICP-OES) | N.D. | 2 | 1000 |
| Mercury (Hg) | mg/kg | With reference to IEC 62321-4:2013 (Determination of Hg by ICP-OES) | N.D. | 2 | 1000 |
| Hexavalent Chromium (CrVI) # | μg/cm ² | With reference to IEC 62321-7-1:2015 (Determination of CrVI by UV-VIS) | N.D. | 0.10 | 1 |
| Sum of PBBs | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS) | N.D. | - | 1000 |
| Monobromobiphenyl | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS) | N.D. | 5 | • |
| Dibromobiphenyl | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS) | N.D. | 5 | - |
| Tribromobiphenyl | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS) | N.D. | 5 | |
| Tetrabromobiphenyl | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS) | N.D. | 5 | - |
| Pentabromobiphenyl | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS) | N.D. | 5 | - |
| Hexabromobiphenyl | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS) | N.D. | 5 | - |
| Heptabromobiphenyl | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS) | N.D. | 5 | - |
| Octabromobiphenyl | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS) | N.D. | 5 | - |
| Nonabromobiphenyl | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS) | N.D. | 5 | - |
| Decabromobiphenyl | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS) | N.D. | 5 | - |

SGS (MALAYSIA) SDN. BHD.

TAY SIAM PINE B.Sc.(HONS) MMIC TECHNICAL MANAGER

This document is issued by the Company subject to its General Conditions of Service printed overteaf, available on request or accessible at http://www.sas.com/en/Terms-and-Conditions/Terms-en-Decument.aspx. 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 exoneate 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 tubest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for seven days (perishable food sample) or three months only.



No. CRSSA/00366/17

CRS Ref. CRSSA/17/0084/Max

Date: 16/01/2017 Page: 3 of 9

| 0 | | With reference to IEC 62321-6:2015 | T | | |
|--------------------------|---------|--|----------|----------|------|
| Sum of PBDEs | mg/kg | (Determination of PBDE by GC-MS) | N.D. | - | 1000 |
| Monobromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015 | N.D. | 5 | - |
| | | (Determination of PBDE by GC-MS) | | | |
| Dibromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS) | N.D. | 5 | - |
| | | With reference to IEC 62321-6:2015 | <u> </u> | | |
| Tribromodiphenyl ether | mg/kg | (Determination of PBDE by GC-MS) | N.D. | 5 | - |
| Tetrabromodiphenyl ether | malka | With reference to IEC 62321-6:2015 | N.D. | 5 | - |
| | mg/kg | (Determination of PBDE by GC-MS) | IN.D. | | |
| Pentabromodiphenyl ether | malka | With reference to IEC 62321-6:2015 | N.D. | 5 | - |
| | mg/kg | (Determination of PBDE by GC-MS) | | | |
| Hexabromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015 | N.D. | 5 | - |
| | mg/kg | (Determination of PBDE by GC-MS) | | | |
| Heptabromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015 | N.D. | 5 | ~ |
| | riig/kg | (Determination of PBDE by GC-MS) | | | |
| Octabromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015 | N.D. | 5 | _ |
| | mg/kg | (Determination of PBDE by GC-MS) | | <u> </u> | |
| Nonabromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015 | N.D. | 5 | _ |
| | 1119719 | (Determination of PBDE by GC-MS) | | | _ |
| Decabromodiphenyl ether | mg/kg | With reference to IEC 62321-6:2015 | N.D. | 5 | |
| | 9/1.9 | (Determination of PBDE by GC-MS) | 14.5. | _ | - |

Note:

- (a) mg/kg = ppm; 0.1wt% = 1000ppm
- (b) N.D.= Not Detected
- (c) MDL = Method Detection Limit
- (d) # = a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 μg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is n.d. (concentration less than 0.10 $\mu g/cm^2$). The coating is considered a non-CrVI based coating
 - c. The result between 0.10 μ g/cm² and 0.13 μ g/cm² is considered to be inconclusive unavoidable coating variations may influence the determination

For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing represent status of the sample at the time of testing.

- (e) -= not regulated
- (f) The below information of raw materials or ingredients was provided by the client. SGS has no liability in verifying the authenticity of such information. The testing was carried out using the sample submitted as shown in the photo in page 6.

SGS (MALAYSIA) SDN. BHD.

TAY SIAM PINE B.Sc.(HONS) MMIC TECHNICAL MANAGER

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sus.com/en/Terms-and-Conditions.asux and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sus.com/en/Terms-e-Document.aspx. 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 toes 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 and such sample(s) are retained for seven days (perishable food sample) or three months only.



No. CRSSA/00366/17

Date : 16/01/2017

Page: 4 of 9

CRS Ref. CRSSA/17/0084/Max

Test result:

Test Part Description:

Sample Description

MAX STAPLE - No. 10 series consist of-

(No.10-1M, No.10-12M)

Optional: RoHS Directive 2011/65/EU, priority substances

| Test Item(s): | Unit | Test Method | Results | MDL | Limit |
|---|-------|--|---------|-----|-------|
| Hexabromocyclododecane (HBCDD) (Cas#25637-99-4 & 3194-55-6) | mg/kg | Based on IEC 62321:2008 (Determination of HBCDD by GC-MS) | N.D. | 10 | - |

Note:

- (a) Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC: Hexabromocyclododecane (HBCDD), Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP) and Dibutyl phthalate (DBP) are considered as a priority for risk evaluation and substance restriction.
- (b) = not regulated
- (c) N.D. = Not Detected
- (d) The below information of raw materials or ingredients was provided by the client. SGS has no liability in verifying the authenticity of such information. The testing was carried out using the sample submitted as shown in the photo in page 6.

SGS (MALAYSIA) SDN. BHD.

TAY SIAM PINE
B.Sc.(HONS) MMIC
TECHNICAL MANAGER

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sos.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document does not take 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 full-extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for seven days (perishable food sample) or three months only.



No. CRSSA/00366/17

CRS Ref. CRSSA/17/0084/Max

Date: 16/01/2017

Page: 5 of 9

Test result:

Test Part Description:

Sample Description

MAX STAPLE - No. 10 series consist of-

(No.10-1M, No.10-12M)

RoHS Directive 2011/65/EU Annex II (amended by Directive (EU) 2015/863)

| Test Item(s): | Unit | Test Method | Results | <u>MDL</u> | Limit |
|--|-------|--|---------|------------|-------|
| Bis (2-ethylhexyl) phthalate (DEHP) (CAS No. 117-81-7) | mg/kg | Based on EN 14372:2004 (Determination of DEHP by GC-MS) | N.D. | 30 | 1000 |
| Butyl benzyl phthalate (BBP) (CAS No. 85-68-7) | mg/kg | Based on EN 14372:2004 (Determination of BBP by GC-MS) | N.D. | 30 | 1000 |
| Dibutyl phthalate (DBP) (CAS No. 84-74-2) | mg/kg | Based on EN 14372:2004 (Determination of DBP by GC-MS) | N.D. | 30 | 1000 |
| Diisobutyl phthalate (DIBP) (CAS No. 84-69-5) | mg/kg | Based on EN 14372:2004 (Determination of DIBP by GC-MS) | N.D. | 30 | 1000 |

- Note: (a) mg/kg = ppm; (0.1wt% = 1000ppm)
 - (b) N.D. = Not Detected
 - (c) MDL = Method Detection Limit
 - (d) = Not regulated
 - (e) The below information of raw materials or ingredients was provided by the client. SGS has no liability in verifying the authenticity of such information. The testing was carried out using the sample submitted as shown in the photo in page 6.

SGS (MALAYSIA) SDN. BHD.

TAY SIAM PINE B.Sc.(HONS) MMIC TECHNICAL MANAGER

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sos.com/en/Terms-and-Conditions.fasax and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sos.com/en/Terms-and-Conditions/ferms-e-Document.aspx. 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 soligations 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) are retained for seven days (perishable food sample) or three months only.



No. CRSSA/00366/17 CRS Ref. CRSSA/17/0084/Max Date: 16/01/2017

Page: 6 of 9

Test Part Description:

Sample Description

MAX STAPLE - No. 10 series consist of-

(No.10-1M, No.10-12M)

MAX FASTENERS (M) SDN BHD CRSSA/00366/17

SGS authenticate the photo on original report only

SGS (MALAYSIA) SDN. BHD.

TAY SIAM PINE B.Sc.(HONS) MMIC TECHNICAL MANAGER

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sois.com/en/Terms-and-Conditions/Terms-e-Document.aspx. 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) are retained for seven days (perishable food sample) or three months only.



No. CRSSA/00366/17 CRS Ref. CRSSA/17/0084/Max Date: 16/01/2017

Page: 7 of 9

1. DETERMINATION OF CADMIUM CONTENT BY

IEC 62321-5 2013

Sample Receiving and Registration

Cut sample in small pieces

Weight sample (0.2-0.5g) into digestion vessel

Acid digestion (Microwave)

"Totally Dissolved"

Filtration

1

Analyses by ICP

2. <u>DETERMINATION OF LEAD CONTENT BY</u> <u>IEC 62321-5 2013</u>

Sample Receiving and Registration

Cut sample in small pieces

Weight sample (0.2-0.5g) into digestion vessel

Acid digestion (Microwave)

"Totally Dissolved"

Filtration

Analyses by ICP

3. <u>DETERMINATION OF MERCURY CONTENT BY</u> IEC 62321-4 2013

Sample Receiving and Registration

Cut sample in small pieces

Weight sample (0.1-0.5g) into digestion vessel

Acid digestion (Microwave)

"Totally Dissolved"

Filtration

Analyses by ICP

4. <u>DETERMINATION OF HEXAVALENT CHROMIUM</u> BY IEC 62321-7-1 2015

Sample Receiving and Registration

Sample Preparation

₩ Boiling-water-extraction

Analyses by UV- Spectrophotometer

Test Report

5. <u>DETERMINATION OF PBB/PBDE WITH GC-MS</u> BY IEC 62321-6 2015

Cut sample in small pieces

Weight sample (0.5-4.0g) into extraction thimble

Soxhlet Extraction with Toluene

Filter through 0.45 um membrane filter

Analyses by GC-MS (with appropriate dilution)

SGS (MALAYSIA) SDN. BHD.

TAY SIAM PINE B.Sc.(HONS) MMIC TECHNICAL MANAGER

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, independing in a dipurisdiction 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 for exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in fill, 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 and such sample(s) are retained for seven days (perishable food sample) or three months only.



No. CRSSA/00366/17 CRS Ref. CRSSA/17/0084/Max Date: 16/01/2017

Page: 8 of 9

DETERMINATION OF HBCDD CONTENT

Cut sample in small pieces

Weight sample (0.5-4.0g) into extraction thimble

Soxhlet Extraction with Toluene

Filter through 0.45 um membrane filter

Analyses by GC-MS (with appropriate dilution)

SGS (MALAYSIA) SDN. BHD.

TAY SIAM PINE B.Sc.(HONS) MMIC

TECHNICAL MANAGER

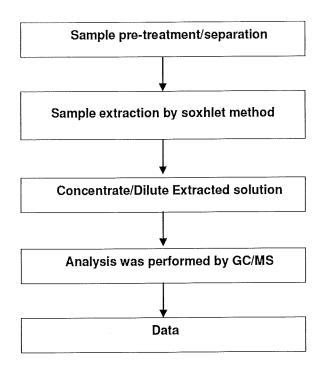
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sos.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined 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 attention, 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 and such sample(s) are retained for seven days (perishable food sample) or three months only.



No. CRSSA/00366/17 CRS Ref. CRSSA/17/0084/Max Date: 16/01/2017

Page: 9 of 9

Analytical flow chart of Phthalates Content



**** End of Report ****

SGS (MALAYSIA) SDN. BHD.

TAY SIAM PINE B.Sc.(HONS) MMIC TECHNICAL MANAGER

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sos.com/en/Terms-and-Conditions.com/en/Terms-and-Conditions.com/en/Terms-and-Conditions.com/en/Terms-and-Conditions.com/en/Terms-and-Conditions.com/en/Terms-and-Conditions.forms-en/Document.aspx. 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 exoneate 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, longery 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) are retained for seven days (perishable food sample) or three months only.