

## Test Report

No. SHAFD1806484102 A01

Date: 20 Sep 2018

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GeoTegrity ECO Pack(Xiamen)Co.,Ltd

523 Ji'An Road,Tongan Industrial Zone Xiamen City,Fujian Province,China

**THIS REPORT IS TO SUPERSEDE TEST REPORT No.SHAFD1806484101, DATE:2018/04/19.**

The following sample(s) was/were submitted and identified on behalf of the clients as : Sugarcane bagasse plates

SGS Job No. : XMAFF180400683 ASH18-013652 - SH  
Manufacturer : GeoTegrity ECO Pack(Xiamen)Co.,Ltd  
Date of Sample Received : 03 Apr 2018  
Testing Period : 03 Apr 2018 - 19 Apr 2018  
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).

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## Result Summary :

| Test Requested   | Conclusion |
|--|------------|
| German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, Council of Europe Resolution AP (2002) 1 and BfR recommendation-Optical brighteners                         | PASS       |
| German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Sensorial examination odour and taste test  | PASS       |
| German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, Council of Europe Resolution AP (2002) 1 and BfR recommendation- Preserving effect                          | PASS       |
| German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, Council of Europe Resolution AP (2002) 1 and BfR recommendation-Specific migration of benzophenone          | PASS       |
| German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, Council of Europe Resolution AP (2002) 1 and BfR recommendation- Specific migration of 4-methylbenzophenone | PASS       |
| German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Extractable heavy metals  | PASS       |
| German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Extractable primary aromatic amine  | PASS       |
| German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Extractable formaldehyde  | PASS       |
| German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Extractable glyoxal   | PASS       |
| German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, Council of Europe Resolution AP (2002) 1 and BfR recommendation -Pentachlorophenol (PCP)                    | PASS       |
| German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Azo dyes  | PASS       |

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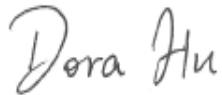
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Signed for and on behalf of  
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



Dora Hu  
Approved Signatory

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Test Results :

## Test Part Description :

| Specimen No. | SGS Sample ID    | Description       | Material<br>(claimed by the client) |
|--------------|------------------|-------------------|-------------------------------------|
| SN1          | SHA18-064841.001 | White paper plate | Paper                               |

Remarks :

- (1) mg/dm<sup>2</sup> = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected ( < MDL)

## German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, Council of Europe Resolution AP (2002) 1 and BfR recommendation-Optical brighteners

Test Method : With reference to EN 648:2006.

| Simulant Used                            | Time      | Temperature | Max. Permissible Limit | Result of 001 | Conclusion |
|--|-----------|-------------|------------------------|---------------|------------|
| 3% Acetic acid (W/V)<br>aqueous solution | 10 min(s) | 23±2°C      | ★                      | Grade 5       | PASS       |
| Rectified olive oil                      | 10 min(s) | 23±2°C      | ★                      | Grade 5       | PASS       |

Notes :

- (1) ★=Grade 5
- (2) Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

## German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Sensorial examination odour and taste test

Test Method : With reference to DIN 10955:2004

Test media:

No. of panelist: 6

| Test Item(s)                              | Limit | 001 |
|---|-------|-----|
| Test time (hr(s))                         | -     | 2   |
| Temperature(°C)                           | -     | 70  |
| Sensorial examination odour (Point scale) | 2.5   | 0   |

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| <u>Test Item(s)</u>                       | <u>Limit</u> | <u>001</u> |
|---|--------------|------------|
| Sensorial examination taste (Point scale) | 2.5          | 0          |
| Conclusion                                |              | PASS       |

Notes :

Intensity scale (rounded at 0.5):

- 0 – no perceptible difference
- 1 – just perceptible difference
- 2 – slight difference
- 3 – marked difference
- 4 – strong difference

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, Council of Europe Resolution AP (2002) 1 and BfR recommendation- Preserving effect

Test Method : With reference to EN 1104:2005.

| <u>Test Item(s)</u>             | <u>Limit</u> | <u>001</u> |
|---------------------------------|--------------|------------|
| Bacillus subtilis ATCC No. 6633 | ★            | Absent     |
| Aspergillus niger ATCC No.6275  | ★            | Absent     |
| Conclusion                      |              | PASS       |

Notes :

- (1) ★= Absence of zone inhibition
- (2) Absent denotes absence of Antimicrobic constituents which inhibits the growth of tested bacteria and fungus.

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, Council of Europe Resolution AP (2002) 1 and BfR recommendation-Specific migration of benzophenone

Test Method : With reference to EN 13130-1:2004, analysis was performed by GC-MS.

Sample 001

Simulant Used : Rectified olive oil

Test Condition : 70 °C 2.0 hr(s)

| <u>Test Item(s)</u> | <u>Max. Permissible</u> | <u>Unit</u>         | <u>MDL</u> | <u>Test result</u> |
|---------------------|-------------------------|---------------------|------------|--------------------|
|                     | <u>Limit</u>            |                     |            |                    |
| Migration times     | -                       | -                   | -          | First              |
| Area/volume         | -                       | dm <sup>2</sup> /kg | -          | 6.0                |

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Specific migration of benzophenone

0.6

mg/kg

0.2

ND

Conclusion

PASS

Notes :

- (1) Test condition & simulant were specified by client.

**German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, Council of Europe Resolution AP (2002) 1 and BfR recommendation- Specific migration of 4-methylbenzophenone**

Test Method : With reference to EN 13130-1:2004, analysis was performed by GC-MS.

### Sample 001

Simulant Used : Rectified olive oil

Test Condition : 70 °C 2.0 hr(s)

| Test Item(s)                               | Max. Permissible Limit | Unit                | MDL | Test result |
|--|------------------------|---------------------|-----|-------------|
| Migration times                            | -                      | -                   | -   | First       |
| Area/volume                                | -                      | dm <sup>2</sup> /kg | -   | 6.0         |
| Specific migration of 4-methylbenzophenone | 0.2                    | mg/kg               | 0.2 | ND          |
| Conclusion                                 |                        |                     |     | PASS        |

Notes :

- (1) Test condition & simulant were specified by client.

**German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Extractable heavy metals**

Test Method : With reference to EN 645:1993 (cold water extraction), analysis was performed by UV-Vis and ICP-OES / ICP-MS.

| Test Item(s)               | Limit | Unit               | MDL   | 001  |
|----------------------------|-------|--------------------|-------|------|
| Extractable lead           | 10    | mg/kg              | 0.1   | ND   |
| Extractable cadmium        | 5     | mg/kg              | 0.05  | ND   |
| Extractable mercury        | 0.3   | mg/kg              | 0.05  | ND   |
| Extractable chromium (III) | 0.004 | mg/dm <sup>2</sup> | 0.004 | ND   |
| Extractable chromium (VI)  | ★     | mg/dm <sup>2</sup> | 0.004 | ND   |
| Conclusion                 |       |                    |       | PASS |

Notes :



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(1) ★= Absent

(2) Permissible Limit is according to BfR Recommendation XXXVI.

### German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Extractable primary aromatic amine

Test Method : With reference to EN 645:1993 (cold water extraction) and BfR Recommendation XXI, analysis was performed by UV-Vis.

| Test Item(s)                       | Limit | Unit  | MDL   | 001  |
|------------------------------------|-------|-------|-------|------|
| Extractable primary aromatic amine | 0.002 | mg/kg | 0.002 | ND   |
| Conclusion                         |       |       |       | PASS |

Notes :

(1) Test condition & simulant were specified by client.

### German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Extractable formaldehyde

Test Method : With reference to EN 645:1994 (cold water extraction) and EN 1541:2001, analysis was performed by UV-Vis.

| Test Item(s)             | Limit | Unit               | MDL | 001  |
|--------------------------|-------|--------------------|-----|------|
| Extractable formaldehyde | 1     | mg/dm <sup>2</sup> | 0.1 | ND   |
| Conclusion               |       |                    |     | PASS |

### German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Extractable glyoxal

Test Method : With reference to DIN 54603-2008.

| Test Item(s)        | Limit | Unit               | MDL | 001  |
|---------------------|-------|--------------------|-----|------|
| Extractable glyoxal | 1.5   | mg/dm <sup>2</sup> | 0.5 | ND   |
| Conclusion          |       |                    |     | PASS |

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**German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, Council of Europe Resolution AP (2002) 1 and BfR recommendation -Pentachlorophenol (PCP)**

Test Method : With reference to LFGB § 64 BVL B 82.02.8-2001, analysis was performed by GC-MS.

| <u>Test Item(s)</u>     | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>001</u> |
|-------------------------|--------------|-------------|------------|------------|
| Pentachlorophenol (PCP) | 0.15         | mg/kg       | 0.05       | ND         |
| Conclusion              |              |             |            | PASS       |

**German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Azo dyes**

Test Method : With reference to § 64 LFGB BVL B 82.02.2:2013, analysis was performed by GC-MS/HPLC-DAD.

| <u>Test Item(s)</u>                               | <u>CAS NO.</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>001</u> |
|---|----------------|--------------|-------------|------------|------------|
| 4-Aminobiphenyl                                   | 92-67-1        | ★            | mg/kg       | 5          | ND         |
| Benzidine   | 92-87-5        | ★            | mg/kg       | 5          | ND         |
| 4-chloro-o-toluidine                              | 95-69-2        | ★            | mg/kg       | 5          | ND         |
| 2-naphthylamine                                   | 91-59-8        | ★            | mg/kg       | 5          | ND         |
| o-aminoazotoluene                                 | 97-56-3        | ★            | mg/kg       | 5          | ND         |
| 5-nitro-o-toluidine / 2-Amino-4-nitrotoluene      | 99-55-8        | ★            | mg/kg       | 5          | ND         |
| 4-chloroaniline                                   | 106-47-8       | ★            | mg/kg       | 5          | ND         |
| 4-methoxy-m-phenylenediamine /                    | 615-05-4       | ★            | mg/kg       | 5          | ND         |
| 2,4-Diaminoanisole                                |                |              |             |            |            |
| 4,4'-diaminodiphenylmethane                       | 101-77-9       | ★            | mg/kg       | 5          | ND         |
| 3,3'-dichlorobenzidine                            | 91-94-1        | ★            | mg/kg       | 5          | ND         |
| 3,3'-dimethoxybenzidine                           | 119-90-4       | ★            | mg/kg       | 5          | ND         |
| 3,3'-dimethylbenzidine                            | 119-93-7       | ★            | mg/kg       | 5          | ND         |
| 3,3'-Dimethyl-4,4'-diaminodiphenylmethane /       | 838-88-0       | ★            | mg/kg       | 5          | ND         |
| 4,4'-methylenedi-o-toluidine                      |                |              |             |            |            |
| p-cresidine                                       | 120-71-8       | ★            | mg/kg       | 5          | ND         |
| 4,4'-methylene-bis-(2-chloroaniline)              | 101-14-4       | ★            | mg/kg       | 5          | ND         |
| 4,4'-oxydianiline                                 | 101-80-4       | ★            | mg/kg       | 5          | ND         |
| 4,4'-thiodianiline                                | 139-65-1       | ★            | mg/kg       | 5          | ND         |
| o-toluidine                                       | 95-53-4        | ★            | mg/kg       | 5          | ND         |
| 4-methyl-m-phenylenediamine / 2,4-Toluylendiamine | 95-80-7        | ★            | mg/kg       | 5          | ND         |

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## Test Report

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| Test Item(s)           | CAS NO.  | Limit | Unit  | MDL | 001 |
|------------------------|----------|-------|-------|-----|-----|
| 2,4,5-trimethylaniline | 137-17-7 | ★     | mg/kg | 5   | ND  |
| 4-aminoazobenzene      | 60-09-3  | ★     | mg/kg | 5   | ND  |
| O-Anisidine            | 90-04-0  | ★     | mg/kg | 5   | ND  |
| Conclusion             |          |       |       |     |     |
|                        |          |       |       |     |     |

Notes :

- (1) ★=Prohibited
- (2) Permissible Limit is according to BfR Recommendation XXXVI.
- (3) The § 64 LFGB BVL B 82.02-2:2013 method will enable further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline and 1,4-phenylenediamine. If aniline and/or 1,4-phenylenediamine is not found (i.e. 5mg/kg) by mentioned test method, test result for 4-aminoazobenzene (CAS no. 60-09-3) is considered as "not detected" (i.e. <5mg/kg). Otherwise, the test method of § 64 LFGB BVL B 82.02-15:2013 will be employed to verify the presence of 4-aminoazobenzene.
- (4) Whenever 4-aminodiphenyl (CAS number 92-67-1), 2-naphylamine (CAS number 91-59-8) and 4-methoxy-m-phenylene-diamine (CAS number 615-05-4) is found, the use of banned azo colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorants used.
- (5) In case polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) and 2,4-toluylen-diamine (TDA, CAS number 95-80-7) are released from the PU component and not from a banned azo colorant.
- (6) In case of pigment prints care has to be taken that 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.
- (7) These tests were subcontracted to SGS Ningbo Chemical Lab.

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