

# Test Report

No.: 70.431.20.12774.01

Dated: 2020-07-21



Greater China

**Applicant:** RIZHAO HAICHUAN PLASTIC PRODUCTS CO.,LTD  
**Address:** LIUGUANZHUANG TOWN,JU COUNTRY ,RIZHAO CITY,SHANDONG PROVINCE ,CHINA.  
**Product Name:** PE gloves , size:260(L)\*250(W)mm(+5mm), 0.6g/pcs, 0.0085mmPE  
**Manufacturer:** RIZHAO HAICHUAN PLASTIC PRODUCTS CO.,LTD  
**Address:** LIUGUANZHUANG TOWN,JU COUNTRY ,RIZHAO CITY,SHANDONG PROVINCE ,CHINA.  
**Country of Origin:** Shandong Rizhao  
**Receipt Date of Sample:** 2020-07-08  
**Date of Testing:** 2020-07-13 to 2020-07-21  
**Sample Submitted:** The sample(s) was (were) submitted by applicant and identified.  
**Test Result:** Refer to the data listed in following pages  
**Conclusion:** When test as specified, the tested parameter(s) **comply with** the respective requirement(s) stated in German Food & Feed Acts LFGB Section 30 & 31 & BfR Recommendation & Regulation (EU) No. 10/2011 and Regulation (EC) No. 1935/2004 of the European Parliament.

| Test Item                                                                                                                                              | Conclusion |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 1. Germany-German Food & Feed Acts LFGB Section 30 and BfR Recommendation & Regulation (EU) No. 10/2011 -Overall Migration                             | Pass       |
| 2. Germany-German Food & Feed Acts LFGB Section 30 and BfR Recommendation & Regulation (EU) No. 10/201-Specific Migration of Heavy Metals              | Pass       |
| 3. Germany-German Food & Feed Acts LFGB Section 30 and BfR Recommendation-Peroxide Value                                                               | Pass       |
| 4. Germany-German Food & Feed Acts LFGB Section 30 and BfR Recommendation-Total Chromium, Vanadium, Zirconium and Hafnium Content                      | Pass       |
| 5. Germany-German Food & Feed Acts LFGB Section 31 and BfR Recommendation-Sensory Test                                                                 | Pass       |
| 6. Screening of 209 Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) based on Regulation (EC) No.1907/2006 (REACH) | <0.1%(W/W) |

Remarks: 1. MDL = Method Detection Limit  
2. ND = Not Detected (<MDL)  
3. <= Less than  
4. 1 mg/kg = 1 ppm = 0.0001%

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TÜV SÜD Certification and Testing (China) Co.,Ltd. Shanghai Branch  
Testing Center

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Unless otherwise agreed upon, Pass or Fail verdicts are given based on the measured values without any considerations of measurement uncertainties.  
Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as Pass nor as Fail.

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## Description of the Tested Subject

| Sample | Description                                                        | Photo |
|--------|--------------------------------------------------------------------|-------|
| A      | PE gloves ,<br>size:260(L)*250(W)mm(+5mm),<br>0.6g/pcs, 0.0085mmPE |       |

## Specimen Description

|     |                          |
|-----|--------------------------|
| 001 | Transparent soft plastic |
|-----|--------------------------|



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## Test Results

### 1. Germany-German Food & Feed Acts LFGB Section 30 and BfR Recommendation & Regulation (EU) No. 10/2011

#### -Overall Migration

- With reference to EN1186-1:2002 for selection of test methods;  
EN1186-3:2002 aqueous food simulants by total immersion method;  
EN1186-14:2002 substitute test;
- Sample 001 Migration ratio: 220ml/2.19dm<sup>2</sup>

| Simulant(s) Used | Test Condition    | Overall Migration Result(s) [mg/dm <sup>2</sup> ] | Maximum Permissible Limit [mg/dm <sup>2</sup> ] | Conclusion |
|------------------|-------------------|---------------------------------------------------|-------------------------------------------------|------------|
|                  |                   | 001                                               |                                                 |            |
| 3% Acetic acid   | 70°C for 2 hours  | <3.0                                              | 10                                              | Pass       |
| 10% Ethanol      | 70°C for 2 hours  | <3.0                                              | 10                                              | Pass       |
| 95% Ethanol      | 60°C for 2 hours  | <3.0                                              | 10                                              | Pass       |
| Isooctane        | 40°C for 0.5 hour | <3.0                                              | 10                                              | Pass       |

Note: 1. Test condition and simulant were specified by client

### 2. Germany-German Food & Feed Acts LFGB Section 30 and BfR Recommendation & Regulation (EU) No. 10/2011 - Specific Migration of Heavy Metals

- With reference to EN 13130-1:2004, followed by ICP-MS.
- Test condition: 3% Acetic acid, 40°C for 2 hours
- Sample 001 Migration ratio: 220ml/2.19dm<sup>2</sup>

| Test Item(s) | Result(s) [mg/kg] | Limit [mg/kg] | Conclusion |
|--------------|-------------------|---------------|------------|
|              | 001               |               |            |
| Aluminium    | <0.1              | 1             | Pass       |
| Barium       | <0.1              | 1             | Pass       |
| Cobalt       | <0.05             | 0.05          | Pass       |
| Copper       | <0.5              | 5             | Pass       |
| Iron         | <1.0              | 48            | Pass       |
| Lithium      | <0.1              | 0.6           | Pass       |
| Manganese    | <0.05             | 0.6           | Pass       |
| Zinc         | <1.0              | 5             | Pass       |
| Nickel       | <0.01             | 0.02          | Pass       |

Note: 1. Test condition and simulant were specified by client

**3. Germany-German Food & Feed Acts LFGB Section 30 and BfR Recommendation -Peroxide Value**

- With reference to Bundesgesundheitsbl. 40 (1997), 412

| Test Item(s)   | Result(s) | Maximum Permissible Limit | Conclusion |
|----------------|-----------|---------------------------|------------|
|                | 001       |                           |            |
| Peroxide Value | Absent    | Absent                    | Pass       |

**4. Germany-German Food & Feed Acts LFGB Section 30 and BfR Recommendation -Total Chromium, Vanadium, Zirconium and Hafnium Content**

- Microwave digestion, followed by AAS or ICP analysis

| Test Item(s)      | Result(s) [mg/kg] | Maximum Permissible Limit [mg/kg] | Conclusion |
|-------------------|-------------------|-----------------------------------|------------|
|                   | 001               |                                   |            |
| Chromium content  | 2.0               | 10                                | Pass       |
| Vanadium content  | <15.0             | 20                                | Pass       |
| Zirconium content | <15.0             | 100                               | Pass       |
| Hafnium content   | <15.0             | 100                               | Pass       |

**5. Germany-German Food & Feed Acts LFGB Section 31 and BfR Recommendation -Sensory Test**

- With reference to DIN 10955:2004

- Test condition: Distilled water, 40°C for 2 hours

| Sample(s) | Testing Parameter | Grading result(s) | Recommended level | Conclusion |
|-----------|-------------------|-------------------|-------------------|------------|
| A         | Transfer of taste | 1                 | <3                | Pass       |
|           | Transfer of smell | 1                 | <3                | Pass       |

Note: Available grading are listed as follow:

Grading 0: No perceptible taste/smell deviation

1: Just perceptible taste/smell deviation

2: Weak taste/smell deviation

3: Clear taste/smell deviation

4: Strong taste/smell deviation

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## 6. Screening of 209 Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) based on Regulation (EC) No.1907/2006 (REACH)

Test with reference to in house method, determination by ICP, UV-VIS, GC-MS and LC-MS.

| Item No. | Tested Items                                                                                                          | CAS No.                  | MDL [% w/w] | Concentration [% w/w] | Classification                                                                    |
|----------|-----------------------------------------------------------------------------------------------------------------------|--------------------------|-------------|-----------------------|-----------------------------------------------------------------------------------|
|          |                                                                                                                       |                          |             | 001                   |                                                                                   |
| 1        | Benzyl butyl phthalate (BBP)                                                                                          | 85-68-7                  | 0.01        | <0.01                 | Toxic for reproduction (article 57 c)                                             |
| 2        | Bis (2-ethyl(hexyl)phthalate) (DEHP)                                                                                  | 117-81-7                 | 0.01        | <0.01                 | Toxic for reproduction (article 57 c)                                             |
| 3        | Dibutyl phthalate (DBP)                                                                                               | 84-74-2                  | 0.01        | <0.01                 | Toxic for reproduction (article 57 c)                                             |
| 4        | 4,4'-Diaminodiphenylmethane(MDA)                                                                                      | 101-77-9                 | 0.01        | <0.01                 | Carcinogenic (article 57 a)                                                       |
| 5        | 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)                                                                    | 81-15-2                  | 0.01        | <0.01                 | vPvB (article 57 e)                                                               |
| 6        | Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)                                                           | 85535-84-8               | 0.01        | <0.01                 | PBT and vPvB (articles 57 d and 57 e)                                             |
| 7        | Cobalt dichloride **                                                                                                  | 7646-79-9                | 0.01        | <0.01                 | Carcinogenic and toxic for reproduction (articles 57 a and 57 c)                  |
| 8        | Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ([alpha]-HBCDD, [beta]-HBCDD, [gamma]-HBCDD) | 25637-99-4/<br>3194-55-6 | 0.01        | <0.01                 | PBT (article 57 d)                                                                |
| 9        | Sodium dichromate **                                                                                                  | 7789-12-0<br>10588-01-9  | 0.01        | <0.01                 | Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c) |
| 10       | Anthracene                                                                                                            | 120-12-7                 | 0.01        | <0.01                 | PBT (article 57 d)                                                                |
| 11       | Lead hydrogen arsenate **                                                                                             | 7784-40-9                | 0.01        | <0.01                 | Carcinogenic and toxic for reproduction (articles 57 a and 57 c)                  |
| 12       | Bis(tributyltin)oxide,(TBTO)**                                                                                        | 56-35-9                  | 0.01        | <0.01                 | PBT (article 57 d)                                                                |
| 13       | Diarsenic pentaoxide**                                                                                                | 1303-28-2                | 0.01        | <0.01                 | Carcinogenic (article 57 a)                                                       |
| 14       | Diarsenic trioxide **                                                                                                 | 1327-53-3                | 0.01        | <0.01                 | Carcinogenic (article 57 a)                                                       |
| 15       | Triethyl arsenate **                                                                                                  | 15606-95-8               | 0.01        | <0.01                 | Carcinogenic (article 57 a)                                                       |
| 16       | 2,4-Dinitrotoluene                                                                                                    | 121-14-2                 | 0.01        | <0.01                 | Carcinogenic (article 57 a)                                                       |

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|----------|---------------------------------------------------------------------------|---------------------------|-------------|-----------------------|----------------------------------------------------------------------------|
|          |                                                                           |                           |             | 001                   |                                                                            |
| 17       | Anthracene oil <sup>##</sup>                                              | 90640-80-5                | 0.01        | <0.01                 | Carcinogenic, PBT and vPvB (articles 57 a, 57 d and 57 e)                  |
| 18       | Anthracene oil, anthracene paste, distn. lights <sup>##</sup>             | 91995-17-4                | 0.01        | <0.01                 | Carcinogenic, mutagenic, PBT and vPvB (articles 57 a, 57 b, 57 d and 57 e) |
| 19       | Anthracene oil, anthracene paste, anthracene fraction <sup>##</sup>       | 91995-15-2                | 0.01        | <0.01                 | Carcinogenic, mutagenic, PBT and vPvB (articles 57 a, 57 b, 57 d and 57 e) |
| 20       | Anthracene oil, anthracene-low <sup>##</sup>                              | 90640-82-7                | 0.01        | <0.01                 | Carcinogenic, mutagenic, PBT and vPvB (articles 57 a, 57 b, 57 d and 57 e) |
| 21       | Anthracene oil, anthracene paste <sup>##</sup>                            | 90640-81-6                | 0.01        | <0.01                 | Carcinogenic, mutagenic, PBT and vPvB (articles 57 a, 57 b, 57 d and 57 e) |
| 22       | Lead chromate <sup>**</sup>                                               | 7758-97-6                 | 0.01        | <0.01                 | Carcinogenic and toxic for reproduction (articles 57 a and 57 c)           |
| 23       | Lead chromate molybdate sulphate red (C.I. Pigment Red 104) <sup>**</sup> | 12656-85-8                | 0.01        | <0.01                 | Carcinogenic and toxic for reproduction (articles 57 a and 57 c)           |
| 24       | Lead sulfochromate yellow (C.I. Pigment Yellow 34) <sup>**</sup>          | 1344-37-2                 | 0.01        | <0.01                 | Carcinogenic and toxic for reproduction (articles 57 a and 57 c)           |
| 25       | Diisobutyl phthalate(DIBP)                                                | 84-69-5                   | 0.01        | <0.01                 | Toxic for reproduction (article 57c)                                       |
| 26       | Tris(2-chloroethyl)phosphate (TCEP)                                       | 115-96-8                  | 0.01        | <0.01                 | Toxic for reproduction (article 57c)                                       |
| 27       | Pitch, coal tar, high temp. <sup>##</sup>                                 | 65996-93-2                | 0.01        | <0.01                 | Carcinogenic, PBT and vPvB (articles 57a, 57d and 57e)                     |
| 28       | Acrylamide                                                                | 79-06-1                   | 0.01        | <0.01                 | Carcinogenic and mutagenic (articles 57 a and 57 b)                        |
| 29       | Trichloroethylene                                                         | 79-01-6                   | 0.01        | <0.01                 | Carcinogenic (article 57 a)                                                |
| 30       | Boric Acid <sup>**</sup>                                                  | 10043-35-3/<br>11113-50-1 | 0.01        | <0.01                 | Toxic for reproduction (article 57 c)                                      |

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|----------|-------------------------------------------|----------------------------------------|-------------|-----------------------|-----------------------------------------------------------------------------------|
|          |                                           |                                        |             | 001                   |                                                                                   |
| 31       | Disodium tetraborate, anhydrous**         | 1303-96-4/<br>1330-43-4/<br>12179-04-3 | 0.01        | <0.01                 | Toxic for reproduction (article 57 c)                                             |
| 32       | Tetraboron disodium heptaoxide, hydrate** | 12267-73-1                             | 0.01        | <0.01                 | Toxic for reproduction (article 57 c)                                             |
| 33       | Sodium chromate**                         | 7775-11-3                              | 0.01        | <0.01                 | Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c) |
| 34       | Potassium chromate**                      | 7789-00-6                              | 0.01        | <0.01                 | Carcinogenic and mutagenic (articles 57 a and 57 b)                               |
| 35       | Ammonium dichromate**                     | 7789-09-5                              | 0.01        | <0.01                 | Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c) |
| 36       | Potassium dichromate**                    | 7778-50-9                              | 0.01        | <0.01                 | Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c) |
| 37       | Cobalt(II) sulphate**                     | 10124-43-3                             | 0.01        | <0.01                 | Carcinogenic and toxic for reproduction (articles 57 a and 57 c)                  |
| 38       | Cobalt(II) dinitrate**                    | 10141-05-6                             | 0.01        | <0.01                 | Carcinogenic and toxic for reproduction (articles 57 a and 57 c)                  |
| 39       | Cobalt(II) carbonate**                    | 513-79-1                               | 0.01        | <0.01                 | Carcinogenic and toxic for reproduction (articles 57 a and 57 c)                  |
| 40       | Cobalt(II) diacetate**                    | 71-48-7                                | 0.01        | <0.01                 | Carcinogenic and toxic for reproduction (articles 57 a and 57 c)                  |
| 41       | 2-Methoxyethanol                          | 109-86-4                               | 0.01        | <0.01                 | Toxic for reproduction (article 57c)                                              |
| 42       | 2-Ethoxyethanol                           | 110-80-5                               | 0.01        | <0.01                 | Toxic for reproduction (article 57c)                                              |
| 43       | Chromium trioxide**                       | 1333-82-0                              | 0.01        | <0.01                 | Carcinogenic and mutagenic (articles 57 a and 57 b)                               |

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|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------|-----------------------|-----------------------------------------------------------------------------------------------|
|          |                                                                                                                                                     |                       |             | 001                   |                                                                                               |
| 44       | Acids generated from chromium trioxide and their oligomers: a. Chromic acid** b. Dichromic acid** c. Oligomers of chromic acid and dichromic acid** | 7738-94-5, 13530-68-2 | 0.01        | <0.01                 | Carcinogenic (article 57a)                                                                    |
| 45       | 2-Ethoxyethyl acetate (2-EEA)                                                                                                                       | 111-15-9              | 0.01        | <0.01                 | Toxic for reproduction (article 57c)                                                          |
| 46       | Strontium chromate**                                                                                                                                | 7789-06-2             | 0.01        | <0.01                 | Carcinogenic (article 57a)                                                                    |
| 47       | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNU)                                                                      | 68515-42-4            | 0.01        | <0.01                 | Toxic for reproduction (article 57c)                                                          |
| 48       | Hydrazine                                                                                                                                           | 7803-57-8/ 302-01-2   | 0.01        | <0.01                 | Carcinogenic (article 57a)                                                                    |
| 49       | 1-Methyl-2-pyrrolidone                                                                                                                              | 872-50-4              | 0.01        | <0.01                 | Toxic for reproduction (article 57c)                                                          |
| 50       | 1,2,3-Trichloropropane                                                                                                                              | 96-18-4               | 0.01        | <0.01                 | Carcinogenic and toxic for reproduction (articles 57 a and 57 c)                              |
| 51       | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)                                                                         | 71888-89-6            | 0.01        | <0.01                 | Toxic for reproduction (article 57c)                                                          |
| 52       | 1,2-Dichloroethane                                                                                                                                  | 107-06-2              | 0.01        | <0.01                 | Carcinogenic (article 57 a)                                                                   |
| 53       | 2,2'-Dichloro-4,4'-methylenedianiline (MOCA)                                                                                                        | 101-14-4              | 0.01        | <0.01                 | Carcinogenic (article 57 a)                                                                   |
| 54       | 2-Methoxyaniline, o-Anisidine                                                                                                                       | 90-04-0               | 0.01        | <0.01                 | Carcinogenic (article 57 a)                                                                   |
| 55       | 4-(1,1,3,3-Tetramethylbutyl)phenol, (4-tert-Octylphenol)                                                                                            | 140-66-9              | 0.01        | <0.01                 | Equivalent level of concern having probable serious effects to the environment (article 57 f) |
| 56       | Aluminosilicate Refractory Ceramic Fibres**                                                                                                         | -                     | 0.01        | <0.01                 | Carcinogenic (article 57a)                                                                    |
| 57       | Arsenic acid**                                                                                                                                      | 7778-39-4             | 0.01        | <0.01                 | Carcinogenic (article 57 a)                                                                   |
| 58       | Bis(2-methoxyethyl) ether                                                                                                                           | 111-96-6              | 0.01        | <0.01                 | Toxic for reproduction (article 57 c)                                                         |
| 59       | Bis(2-methoxyethyl) phthalate                                                                                                                       | 117-82-8              | 0.01        | <0.01                 | Toxic for reproduction (article 57 c)                                                         |
| 60       | Calcium arsenate**                                                                                                                                  | 7778-44-1             | 0.01        | <0.01                 | Carcinogenic (article 57 a)                                                                   |
| 61       | Dichromium tris(chromate)**                                                                                                                         | 24613-89-6            | 0.01        | <0.01                 | Carcinogenic (article 57 a)                                                                   |

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|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|-----------------------|------------------------------------------------------------------|
|          |                                                                                                                                                       |            |             | 001                   |                                                                  |
| 62       | Formaldehyde, oligomeric reaction products with aniline (technical MDA)                                                                               | 25214-70-4 | 0.01        | <0.01                 | Carcinogenic (article 57 a)                                      |
| 63       | Lead diazide**                                                                                                                                        | 13424-46-9 | 0.01        | <0.01                 | Toxic for reproduction (article 57 c)                            |
| 64       | Lead dipicrate**                                                                                                                                      | 6477-64-1  | 0.01        | <0.01                 | Toxic for reproduction (article 57 c)                            |
| 65       | Lead styphnate**                                                                                                                                      | 15245-44-0 | 0.01        | <0.01                 | Toxic for reproduction (article 57 c)                            |
| 66       | N,N-dimethylacetamide (DMAC)                                                                                                                          | 127-19-5   | 0.01        | <0.01                 | Toxic for reproduction (article 57 c)                            |
| 67       | Pentazinc chromate octahydroxide**                                                                                                                    | 49663-84-5 | 0.01        | <0.01                 | Carcinogenic (article 57 a)                                      |
| 68       | Phenolphthalein                                                                                                                                       | 77-09-8    | 0.01        | <0.01                 | Carcinogenic (article 57 a)                                      |
| 69       | Potassium hydroxyoctaoxodizincatedichromate**                                                                                                         | 11103-86-9 | 0.01        | <0.01                 | Carcinogenic (article 57 a)                                      |
| 70       | Trilead diarsenate**                                                                                                                                  | 3687-31-8  | 0.01        | <0.01                 | Carcinogenic and toxic for reproduction (articles 57 a and 57 c) |
| 71       | Zirconia Aluminosilicate, Refractory Ceramic Fibres**                                                                                                 | -          | 0.01        | <0.01                 | Carcinogenic (article 57 a)                                      |
| 72       | 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)                                                                                                     | 112-49-2   | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                            |
| 73       | 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)                                                                                           | 110-71-4   | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                            |
| 74       | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol <sup>#</sup>                                                                                  | 561-41-1   | 0.01        | <0.01                 | Carcinogenic (Article 57a)                                       |
| 75       | 4,4'-bis(dimethylamino)benzophenone (Michler's ketone)                                                                                                | 90-94-8    | 0.01        | <0.01                 | Carcinogenic (Article 57a)                                       |
| 76       | [4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) <sup>#</sup>                  | 548-62-9   | 0.01        | <0.01                 | Carcinogenic (Article 57a)                                       |
| 77       | [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26) <sup>#</sup> | 2580-56-5  | 0.01        | <0.01                 | Carcinogenic (Article 57a)                                       |
| 78       | Diboron trioxide**                                                                                                                                    | 1303-86-2  | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                            |

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|----------|----------------------------------------------------------------------------------------------------------------------|------------|-------------|-----------------------|------------------------------------------------------------------------------------------|
|          |                                                                                                                      |            |             | 001                   |                                                                                          |
| 79       | Lead(II) bis(methanesulfonate)**                                                                                     | 17570-76-2 | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                                                    |
| 80       | Formamide                                                                                                            | 75-12-7    | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                                                    |
| 81       | N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)                                                       | 101-61-1   | 0.01        | <0.01                 | Carcinogenic (Article 57a)                                                               |
| 82       | 1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione (TGIC)                                              | 2451-62-9  | 0.01        | <0.01                 | Mutagenic (Article 57b)                                                                  |
| 83       | [alpha],[alpha]-Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) <sup>#</sup> | 6786-83-0  | 0.01        | <0.01                 | Carcinogenic (Article 57a)                                                               |
| 84       | 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione ([beta]-TGIC)                         | 59653-74-6 | 0.01        | <0.01                 | Mutagenic (Article 57b)                                                                  |
| 85       | Bis(pentabromophenyl) ether (DecaBDE)                                                                                | 1163-19-5  | 0.01        | <0.01                 | PBT (Article 57 d); vPvB (Article 57 e)                                                  |
| 86       | Pentacosfluorotridecanoic acid                                                                                       | 72629-94-8 | 0.01        | <0.01                 | PBT (Article 57 d); vPvB (Article 57 e)                                                  |
| 87       | Tricosfluorododecanoic acid                                                                                          | 307-55-1   | 0.01        | <0.01                 | vPvB (Article 57 e)                                                                      |
| 88       | Henicosfluoroundecanoic acid                                                                                         | 2058-94-8  | 0.01        | <0.01                 | vPvB (Article 57 e)                                                                      |
| 89       | Heptacosfluorotetradecanoic acid                                                                                     | 376-06-7   | 0.01        | <0.01                 | vPvB (Article 57 e)                                                                      |
| 90       | 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated                                                                      | -          | 0.01        | <0.01                 | Equivalent level of concern – probable serious effects on the environment (Article 57 f) |
| 91       | 4-Nonylphenol, branched and linear                                                                                   | -          | 0.01        | <0.01                 | Equivalent level of concern – probable serious effects on the environment (Article 57 f) |
| 92       | Diazeno-1,2-dicarboxamide (C,C'-azodi(formamide))                                                                    | 123-77-3   | 0.01        | <0.01                 | Equivalent level of concern – probable serious effects on human health (Article 57 f)    |
| 93       | Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)                                          | 85-42-7    | 0.01        | <0.01                 | Equivalent level of concern – probable serious effects on human health (Article 57 f)    |

# Test Report

No.: 70.431.20.12774.01

Dated: 2020-07-21



Greater China

| Item No. | Tested Items                                                                                                                                        | CAS No.                                        | MDL [% w/w] | Concentration [% w/w] | Classification                                                                                                                                  |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
|          |                                                                                                                                                     |                                                |             | 001                   |                                                                                                                                                 |
| 94       | Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride | 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9 | 0.01        | <0.01                 | Equivalent level of concern – probable serious effects on human health (Article 57 f)                                                           |
| 95       | Methoxy acetic acid                                                                                                                                 | 625-45-6                                       | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c); equivalent level of concern -probable serious effects on human health and the environment (Article 57 f) |
| 96       | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear                                                                                    | 84777-06-0                                     | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                                                                                                           |
| 97       | Diisopentylphthalate (DIPP)                                                                                                                         | 605-50-5                                       | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                                                                                                           |
| 98       | N-pentyl-isopentylphthalate                                                                                                                         | 776297-69-9                                    | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                                                                                                           |
| 99       | 1,2-Diethoxyethane                                                                                                                                  | 629-14-1                                       | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                                                                                                           |
| 100      | N,N-dimethylformamide; dimethyl formamide                                                                                                           | 68-12-2                                        | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                                                                                                           |
| 101      | Dibutyltin dichloride (DBT)                                                                                                                         | 683-18-1                                       | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                                                                                                           |
| 102      | Acetic acid, lead salt, basic**                                                                                                                     | 51404-69-4                                     | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                                                                                                           |
| 103      | Basic lead carbonate (trilead bis(carbonate)dihydroxide)**                                                                                          | 1319-46-6                                      | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                                                                                                           |
| 104      | Lead oxide sulfate (basic lead sulfate)**                                                                                                           | 12036-76-9                                     | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                                                                                                           |
| 105      | [Phthalato(2-)]dioxotrilead (dibasic lead phthalate)**                                                                                              | 69011-06-9                                     | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                                                                                                           |
| 106      | Dioxobis(stearato)trilead**                                                                                                                         | 12578-12-0                                     | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                                                                                                           |
| 107      | Fatty acids, C16-18, lead salts**                                                                                                                   | 91031-62-8                                     | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                                                                                                           |
| 108      | Lead bis(tetrafluoroborate)**                                                                                                                       | 13814-96-5                                     | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                                                                                                           |
| 109      | Lead cyanamide**                                                                                                                                    | 20837-86-9                                     | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                                                                                                           |
| 110      | Lead dinitrate**                                                                                                                                    | 10099-74-8                                     | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                                                                                                           |
| 111      | Lead oxide (lead monoxide)**                                                                                                                        | 1317-36-8                                      | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                                                                                                           |

# Test Report

No.: 70.431.20.12774.01

Dated: 2020-07-21



Greater China

| Item No. | Tested Items                                       | CAS No.     | MDL [% w/w] | Concentration [% w/w] | Classification                                        |
|----------|----------------------------------------------------|-------------|-------------|-----------------------|-------------------------------------------------------|
|          |                                                    |             |             | 001                   |                                                       |
| 112      | Lead tetroxide (orange lead)**                     | 1314-41-6   | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                 |
| 113      | Lead titanium trioxide**                           | 12060-00-3  | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                 |
| 114      | Lead Titanium Zirconium Oxide**                    | 12626-81-2  | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                 |
| 115      | Pentalead tetraoxide sulphate**                    | 12065-90-6  | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                 |
| 116      | Pyrochlore, antimony lead yellow**                 | 8012-00-8   | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                 |
| 117      | Silicic acid, barium salt, lead-doped**            | 68784-75-8  | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                 |
| 118      | Silicic acid, lead salt**                          | 11120-22-2  | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                 |
| 119      | Sulfurous acid, lead salt, dibasic**               | 62229-08-7  | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                 |
| 120      | Tetraethyllead**                                   | 78-00-2     | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                 |
| 121      | Tetralead trioxide sulphate**                      | 12202-17-4  | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                 |
| 122      | Trilead dioxide phosphonate**                      | 12141-20-7  | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                 |
| 123      | Furan                                              | 110-00-9    | 0.01        | <0.01                 | Carcinogenic (Article 57a)                            |
| 124      | Propylene oxide; 1,2-epoxypropane; methyloxirane   | 75-56-9     | 0.01        | <0.01                 | Carcinogenic (Article 57 a); Mutagenic (Article 57 b) |
| 125      | Diethyl sulphate                                   | 64-67-5     | 0.01        | <0.01                 | Carcinogenic (Article 57 a); Mutagenic (Article 57 b) |
| 126      | Dimethyl sulphate                                  | 77-78-1     | 0.01        | <0.01                 | Carcinogenic (Article 57 a)                           |
| 127      | 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine | 143860-04-2 | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                 |
| 128      | Dinoseb                                            | 88-85-7     | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                 |
| 129      | 4,4'-methylenedi-o-toluidine                       | 838-88-0    | 0.01        | <0.01                 | Carcinogenic (Article 57 a)                           |
| 130      | 4,4'-oxydianiline and its salts                    | 101-80-4    | 0.01        | <0.01                 | Carcinogenic (Article 57 a); Mutagenic (Article 57 b) |
| 131      | 4-Aminoazobenzene; 4-Phenylazoaniline              | 60-09-3     | 0.01        | <0.01                 | Carcinogenic (Article 57 a)                           |
| 132      | 4-methyl-m-phenylenediamine (2,4-toluene-diamine)  | 95-80-7     | 0.01        | <0.01                 | Carcinogenic (Article 57 a)                           |

# Test Report

No.: 70.431.20.12774.01

Dated: 2020-07-21



Greater China

| Item No. | Tested Items                                    | CAS No.   | MDL [% w/w] | Concentration [% w/w] | Classification                                                                                                                                          |
|----------|-------------------------------------------------|-----------|-------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |                                                 |           |             | 001                   |                                                                                                                                                         |
| 133      | 6-methoxy-m-toluidine (p-cresidine)             | 120-71-8  | 0.01        | <0.01                 | Carcinogenic (Article 57 a)                                                                                                                             |
| 134      | Biphenyl-4-ylamine                              | 92-67-1   | 0.01        | <0.01                 | Carcinogenic (Article 57 a)                                                                                                                             |
| 135      | o-aminoazotoluene                               | 97-56-3   | 0.01        | <0.01                 | Carcinogenic (Article 57 a)                                                                                                                             |
| 136      | o-Toluidine; 2-Aminotoluene                     | 95-53-4   | 0.01        | <0.01                 | Carcinogenic (Article 57 a)                                                                                                                             |
| 137      | N-methylacetamide                               | 79-16-3   | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                                                                                                                   |
| 138      | 1-bromopropane; n-propyl bromide                | 106-94-5  | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                                                                                                                   |
| 139      | Cadmium                                         | 7440-43-9 | 0.01        | <0.01                 | Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)                                  |
| 140      | Cadmium oxide **                                | 1306-19-0 | 0.01        | <0.01                 | Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)                                  |
| 141      | Dipentyl phthalate (DPP)                        | 131-18-0  | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                                                                                                                   |
| 142      | 4-Nonylphenol, branched and linear, ethoxylated | -         | 0.01        | <0.01                 | Equivalent level of concern having probable serious effects to the environment (due to the endocrine disrupting properties of the degradation products) |
| 143      | Ammonium pentadecafluorooctanoate (APFO)        | 3825-26-1 | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c); PBT (Article 57 d)                                                                                               |
| 144      | Pentadecafluorooctanoic acid (PFOA)             | 335-67-1  | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c); PBT (Article 57 d)                                                                                               |

# Test Report

No.: 70.431.20.12774.01

Dated: 2020-07-21



Greater China

| Item No. | Tested Items                                                                                                                                       | CAS No.    | MDL [% w/w] | Concentration [% w/w] | Classification                                                                                                                                     |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
|          |                                                                                                                                                    |            |             | 001                   |                                                                                                                                                    |
| 145      | Cadmium sulphide**                                                                                                                                 | 1306-23-6  | 0.01        | <0.01                 | Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)                             |
| 146      | Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate)(C.I.Direct Red 28)                                           | 573-58-0   | 0.01        | <0.01                 | Carcinogenic (Article 57a)                                                                                                                         |
| 147      | Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate(C.I.Direct Black 38) | 1937-37-7  | 0.01        | <0.01                 | Carcinogenic (Article 57a)                                                                                                                         |
| 148      | Dihexyl phthalate                                                                                                                                  | 84-75-3    | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                                                                                                              |
| 149      | Imidazolidine-2-thione (2-imidazoline-2-thiol)                                                                                                     | 96-45-7    | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                                                                                                              |
| 150      | Lead di(acetate)**                                                                                                                                 | 301-04-2   | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                                                                                                              |
| 151      | Trixylyl phosphate                                                                                                                                 | 25155-23-1 | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                                                                                                              |
| 152      | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear                                                                                   | 68515-50-4 | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                                                                                                              |
| 153      | Cadmium chloride**                                                                                                                                 | 10108-64-2 | 0.01        | <0.01                 | Carcinogenic (Article 57a); Mutagenic (Article 57(b); Toxic for Reproduction (Article 57(c); Equivalent level of concern having probable serious e |
| 154      | Sodium perborate; perboric acid, sodium salt                                                                                                       | -          | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                                                                                                              |
| 155      | Sodium peroxometaborate                                                                                                                            | 7632-04-4  | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                                                                                                              |
| 156      | Cadmium fluoride**                                                                                                                                 | 7790-79-6  | 0.01        | <0.01                 | Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for reproduction (Article 57 c); Equivalent level of concern having probable serious  |

# Test Report

No.: 70.431.20.12774.01

Dated: 2020-07-21



Greater China

| Item No. | Tested Items                                                                                                                                                                                                                                                 | CAS No.                   | MDL [% w/w] | Concentration [% w/w] | Classification                                                                                                                                    |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
|          |                                                                                                                                                                                                                                                              |                           |             | 001                   |                                                                                                                                                   |
| 157      | Cadmium sulphate**                                                                                                                                                                                                                                           | 10124-36-4;<br>31119-53-6 | 0.01        | <0.01                 | Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for reproduction (Article 57 c); Equivalent level of concern having probable serious |
| 158      | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)                                                                                                                                                                                                         | 3846-71-7                 | 0.01        | <0.01                 | PBT (Article 57 d); vPvB (Article 57 e)                                                                                                           |
| 159      | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)                                                                                                                                                                                                     | 25973-55-1                | 0.01        | <0.01                 | PBT (Article 57 d); vPvB (Article 57 e)                                                                                                           |
| 160      | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)                                                                                                                                                                       | 15571-58-1                | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                                                                                                             |
| 161      | reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE) | -                         | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                                                                                                             |
| 162      | 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate                                                                                                 | 68515-51-5,<br>68648-93-1 | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                                                                                                             |
| 163      | Dioxane compound 5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3                                                                                                        | -                         | 0.01        | <0.01                 | vPvB (Article 57 e)                                                                                                                               |
| 164      | 1,3-propanesultone                                                                                                                                                                                                                                           | 1120-71-4                 | 0.01        | <0.01                 | Carcinogenic (Article 57 a)                                                                                                                       |
| 165      | 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)                                                                                                                                                                                               | 3864-99-1                 | 0.01        | <0.01                 | vPvB (Article 57 e)                                                                                                                               |
| 166      | 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)                                                                                                                                                                                         | 36437-37-3                | 0.01        | <0.01                 | vPvB (Article 57 e)                                                                                                                               |
| 167      | Nitrobenzene                                                                                                                                                                                                                                                 | 98-95-3                   | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c)                                                                                                             |

# Test Report

No.: 70.431.20.12774.01

Dated: 2020-07-21



Greater China

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|----------|---------------------------------------------------------------------------|--------------------------------|-------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
|          |                                                                           |                                |             | 001                   |                                                                                                                                                     |
| 168      | Perfluorononan-1-oic-acid and its sodium and ammonium saltspropanesultone | 375-95-1                       | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c);PBT (Article 57 d)                                                                                            |
| 169      | Benzo[a]pyrene                                                            | 50-32-8                        | 0.01        | <0.01                 | Carcinogenic (Article 57a) Mutagenic (Article 57b) Toxic for reproduction (Article 57c) PBT (Article 57d) vPvB (Article 57e)                        |
| 170      | 4,4'-isopropylidenediphenol (bisphenol A)                                 | 80-05-7                        | 0.01        | <0.01                 | Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57(f) - |
| 171      | nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts      | 335-76-2, 3830-45-3, 3108-42-7 | 0.01        | <0.01                 | Toxic for reproduction (Article 57 c); PBT (Article 57 d)                                                                                           |
| 172      | p-(1,1-dimethylpropyl)phenol (pentyphenol, PTAP)                          | 80-46-6                        | 0.01        | <0.01                 | Equivalent level of concern having probable serious effects to the environment (Article 57 f)                                                       |
| 173      | 4-heptylphenol, branched and linear (4-HPbl)                              | -                              | 0.01        | <0.01                 | Equivalent level of concern having probable serious effects to the environment (Article 57 f)                                                       |
| 174      | Perfluorohexane-1-sulphonic acid and its salts (PFHxS)                    | 355-46-4                       | 0.01        | <0.01                 | vPvB (Article 57e)                                                                                                                                  |
| 175      | benz[a]anthracene                                                         | 56-55-3                        | 0.01        | <0.01                 | Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)                                                                                     |
| 176      | cadmium carbonate**                                                       | 513-78-0                       | 0.01        | <0.01                 | Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)            |

# Test Report

No.: 70.431.20.12774.01

Dated: 2020-07-21



Greater China

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|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------|
|          |                                                                                                                                                                           |                           |             | 001                   |                                                                                                                                          |
| 177      | cadmium hydroxide**                                                                                                                                                       | 21041-95-2                | 0.01        | <0.01                 | Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health) |
| 178      | cadmium nitrate**                                                                                                                                                         | 10022-68-1/<br>10325-94-7 | 0.01        | <0.01                 | Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health) |
| 179      | chrysene                                                                                                                                                                  | 218-01-9                  | 0.01        | <0.01                 | Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)                                                                          |
| 180      | Dechlorane Plus(TM)                                                                                                                                                       | -                         | 0.01        | <0.01                 | vPvB (Article 57e)                                                                                                                       |
| 181      | reaction products of 1,3,4-thiadiazolidine-2,5-dithione formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear] | --                        | 0.01        | <0.01                 | Endocrine disrupting properties (Article 57(f) - environment)                                                                            |
| 182      | Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride) (TMA)                                                                                              | 552-30-7                  | 0.01        | <0.01                 | Respiratory sensitising properties (Article 57(f)) – human health)                                                                       |
| 183      | dicyclohexyl phthalate(DCHP)                                                                                                                                              | 84-61-7                   | 0.01        | <0.01                 | Toxic for reproduction (Article 57(c)); endocrine disrupting properties (Article 57(f) - human health)                                   |
| 184      | Octamethylcyclotetrasiloxane (D4)                                                                                                                                         | 556-67-2                  | 0.01        | <0.01                 | PBT (Article 57d) vPvB (Article 57e)                                                                                                     |
| 185      | Decamethylcyclopentasiloxane (D5)                                                                                                                                         | 541-02-6                  | 0.01        | <0.01                 | PBT (Article 57d) vPvB (Article 57e)                                                                                                     |
| 186      | Dodecamethylcyclohexasiloxane (D6)                                                                                                                                        | 540-97-6                  | 0.01        | <0.01                 | PBT (Article 57d) vPvB (Article 57e)                                                                                                     |
| 187      | Lead                                                                                                                                                                      | 7439-92-1                 | 0.01        | <0.01                 | Toxic for reproduction (Article 57c)                                                                                                     |
| 188      | Disodium octaborate**                                                                                                                                                     | 12008-41-2                | 0.01        | <0.01                 | Toxic for reproduction (Article 57c)                                                                                                     |
| 189      | Benzo[ghi]perylene                                                                                                                                                        | 191-24-2                  | 0.01        | <0.01                 | PBT (Article 57d) vPvB (Article 57e)                                                                                                     |

# Test Report

No.: 70.431.20.12774.01

Dated: 2020-07-21



Greater China

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|----------|------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |                                                                                                                        |             |             | 001                   |                                                                                                                                                          |
| 190      | Terphenyl hydrogenated                                                                                                 | 61788-32-7  | 0.01        | <0.01                 | vPvB (Article 57e)                                                                                                                                       |
| 191      | Ethylenediamine (EDA)                                                                                                  | 107-15-3    | 0.01        | <0.01                 | Respiratory sensitising properties (Article 57(f) - human health)                                                                                        |
| 192      | 2,2-bis(4'-hydroxyphenyl)-4-methylpentane                                                                              | 6807-17-6   | 0.01        | <0.01                 | Toxic for reproduction (Article 57c)                                                                                                                     |
| 193      | 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)                                  | 15087-24-8  | 0.01        | <0.01                 | Endocrine disrupting properties (Article 57(f) - environment)                                                                                            |
| 194      | Benzo[k]fluoranthene                                                                                                   | 207-08-9    | 0.01        | <0.01                 | Carcinogenic (Article 57a); PBT (Article 57d); vPvB (Article 57e)                                                                                        |
| 195      | Fluoranthene                                                                                                           | 206-44-0    | 0.01        | <0.01                 | PBT (Article 57d); vPvB (Article 57e)                                                                                                                    |
| 196      | Phenanthrene                                                                                                           | 85-01-8     | 0.01        | <0.01                 | vPvB (Article 57e)                                                                                                                                       |
| 197      | Pyrene                                                                                                                 | 129-00-0    | 0.01        | <0.01                 | PBT (Article 57d); vPvB (Article 57e)                                                                                                                    |
| 198      | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides                               | -           | 0.01        | <0.01                 | Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment)<br>Equivalent level of concern having proba |
| 199      | 2-Methoxyethyl Acetate                                                                                                 | 110-49-6    | 0.01        | <0.01                 | Toxic for reproduction (Article 57 (c))                                                                                                                  |
| 200      | Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP) | --          | 0.01        | <0.01                 | Endocrine disrupting properties (Article 57(f) – environment)                                                                                            |
| 201      | 4-tert-butylphenol (PTBP)                                                                                              | 98-54-4     | 0.01        | <0.01                 | Endocrine disrupting properties (Article 57(f) – environment)                                                                                            |
| 202      | Diisohexyl phthalate                                                                                                   | 71850-09-4  | 0.01        | <0.01                 | Toxic for reproduction (Article 57c)                                                                                                                     |
| 203      | 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone                                                                    | 119313-12-1 | 0.01        | <0.01                 | Toxic for reproduction (Article 57c)                                                                                                                     |
| 204      | 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one                                                               | 71868-10-5  | 0.01        | <0.01                 | Toxic for reproduction (Article 57c)                                                                                                                     |

# Test Report

No.: 70.431.20.12774.01

Dated: 2020-07-21



| Item No. | Tested Items                                       | CAS No.    | MDL [% w/w] | Concentration [% w/w] | Classification                                                                                                                                           |
|----------|----------------------------------------------------|------------|-------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |                                                    |            |             | 001                   |                                                                                                                                                          |
| 205      | Perfluorobutane sulfonic acid (PFBS) and its salts | --         | 0.01        | <0.01                 | Equivalent level of concern having probable serious effects on the environment (Article 57f) Equivalent level of concern having probable serious effects |
| 206      | 1-vinylimidazole                                   | 1072-63-5  | 0.01        | <0.01                 | Toxic for reproduction (Article 57c)                                                                                                                     |
| 207      | 2-methylimidazole                                  | 693-98-1   | 0.01        | <0.01                 | Toxic for reproduction (Article 57c)                                                                                                                     |
| 208      | Butyl 4-hydroxybenzoate                            | 94-26-8    | 0.01        | <0.01                 | Endocrine disrupting properties (Article 57(f) – human health)                                                                                           |
| 209      | Dibutylbis(pentane-2,4-dionato-O,O')tin            | 22673-19-4 | 0.01        | <0.01                 | Toxic for reproduction (Article 57c)                                                                                                                     |

1. MDL=Method Detection Limit, ND=Not Detected(<MDL)
2. \*\* The substances are tested in terms of its respective elements and the test result is based on the calculation of selected elements/marker(s) and to the worst-case scenario. Calculated concentration of boric and arsenic compounds are based on the water extractive boron and arsenic. Due to the limit of the analytical technology available, any further investigation is not feasible. The client is strongly advised to review the chemical formulation to ascertain.
3. ## The substances are UVCB(substance of unknown or variable composition, complex reaction products or biological materials), which are identified by its main constituents. Individual concentrations to the constituent of UVCB with an amount of <0.01% were not considered by the calculation of the sum. Calculation is based on the worst-case scenario. Due to the UVCB nature the reported values may be regarded as semi-quantitative.
4. # only applicable with  $\geq 0.1\%$  of Michler's ketone (CAS No. 90-94-8) or Michler's base (CAS No. 101-61-1)
5. TGIC is a mixture and also contains  $\beta$ -TGIC. According to ECHA's technical dossier the ratio of  $\beta$ -TGIC to TGIC is around 1 to 10. Therefore  $\beta$ -TGIC is issued based on the above-mentioned ratio.
6. The analysis of **209** SVHC is done by currently available test & screening techniques against the SVHC candidate list published by European Chemical Agency (ECHA).  
Refer to [http://echa.europa.eu/chem\\_data/candidate\\_list\\_table\\_en.asp](http://echa.europa.eu/chem_data/candidate_list_table_en.asp) for details.
7. In accordance with Regulation(EC) No 1907/2006, any producer or importer of substances, preparations and articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1), if both the following conditions are met:  
(a) The substance is present in those articles in quantities totalling over 1 tonne per producer or importer per year;  
(b) The substance is present in those articles above a concentration of 0.1% weight by weight (w/w).
8. From 28 October 2008, EU & EEA suppliers whose goods contain substances on the Candidate List in a concentration above 0.1%(w/w) must provide sufficient information to their customers and on request to a consumer within 45 days of the receipt of this request. This information must ensure safe use of the article and, as a minimum, include the name of the substance.

- End of Test Report -