

# Test Report

No.: EDG2501060090C00501R

Date: Jan. 23, 2025

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**Applicant** : EcoFlow Inc.

**Address** : RM 401, Plant #1, Runheng Industrial Zone, Fuyuan Road, Zhancheng Community, Fuhai Street, Bao'an District, Shenzhen City, Guangdong Province, P.R.China

**Sample Name** : EcoFlow 250W Rigid Solar Panel, EcoFlow 130W RVMax Rigid Solar Panel

**Style/Item No.** : EF-SG-250, EF-SG-130

**Received Date** : Jan. 06, 2025

**Test Period** : Jan. 06, 2025 ~ Jan. 23, 2025

**Test Requested** : As specified by the client, according to REACH Regulation (EC) No.1907/2006, to determine the content of the Two hundred and forty-two Substances of Very High Concern (SVHC) in the submitted sample.

**Test Results** : Please refer to next page (s).

## Conclusion:

According to REACH Regulation (EC) No.1907/2006, the test results for the concentration of each of 242 SVHC which are in the current candidate list updated on Nov. 07, 2024 are **LESS THAN** 0.1% (wt.%) in the submitted samples.

Signed for and on behalf of  
EMTEK(Dongguan) Co., Ltd.

Prepared by:

*Polly*

Huang Fenglan, Polly  
Report Engineer

Reviewed by:

*Cindy*

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Approved by:

*Li Wei*

Li Wei, Lisa  
Authorized signatory  
Jan. 23, 2025

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## Test Results:

Test Method: By using microwave digestion or solvent extraction methods, and the analysis was performed by ICP-OES, GC-MS, LC-MS, IC and UV.

| Test Item | Test Result (%)                        | MDL (%) |
|-----------|----------------------------------------|---------|
|           | 1+2+4+7+8+9+10+11+12+15+16+18+20+22+23 |         |
| 242 SVHC  | ND                                     | 0.010   |

| Test Item | Test Result (%)            | MDL (%) |
|-----------|----------------------------|---------|
|           | 3+5+6+13+14+17+19+21+24+25 |         |
| 242 SVHC  | ND                         | 0.010   |

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Tested Materials:

| No. | Description                      |
|-----|----------------------------------|
| 1   | Transparent hard plastic         |
| 2   | Navy silicon wafer               |
| 3   | Silver metal                     |
| 4   | Transparent glass                |
| 5   | Silver metal                     |
| 6   | Silver metal with black plating  |
| 7   | Dark grey hard plastic           |
| 8   | Black glue                       |
| 9   | Dark grey soft plastic           |
| 10  | Dark grey soft plastic           |
| 11  | Blue soft plastic                |
| 12  | Orange hard plastic              |
| 13  | Copper metal with silver plating |
| 14  | Silver metal                     |
| 15  | Black soft plastic               |
| 16  | Red soft plastic                 |
| 17  | Silver metal                     |
| 18  | Blue soft plastic                |
| 19  | Silver metal                     |
| 20  | White soft plastic               |
| 21  | Silver metal                     |
| 22  | Green PCB                        |
| 23  | White glue                       |
| 24  | Solder-silver metal              |
| 25  | Solder-silver metal              |

Remark: As specified by the client, the samples were subjected to mixed testing, and the test results do not represent the content of any single material in the sample.

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## Two hundred and forty-two Substances of Very High Concern (SVHC):

| Batch | No. | Substance Name                                                                                                               | CAS No.                                                 | MDL (%) |
|-------|-----|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|---------|
| I     | 1   | 4,4'- Diaminodiphenylmethane (MDA)                                                                                           | 101-77-9                                                | 0.010   |
| I     | 2   | 5-tert-butyl-2,4,6-trinitro-m-xylene (Musk Xylene)                                                                           | 81-15-2                                                 | 0.010   |
| I     | 3   | Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) #                                                                | 85535-84-8                                              | 0.010   |
| I     | 4   | Anthracene                                                                                                                   | 120-12-7                                                | 0.010   |
| I     | 5   | Benzyl butyl phthalate (BBP)                                                                                                 | 85-68-7                                                 | 0.010   |
| I     | 6   | Bis (2-ethylhexyl)phthalate (DEHP)                                                                                           | 117-81-7                                                | 0.010   |
| I     | 7   | Bis(tributyltin) oxide (TBTO)                                                                                                | 56-35-9                                                 | 0.010   |
| I     | 8   | Cobalt dichloride *                                                                                                          | 7646-79-9                                               | 0.010   |
| I     | 9   | Diarsenic pentaoxide *                                                                                                       | 1303-28-2                                               | 0.010   |
| I     | 10  | Diarsenic trioxide *                                                                                                         | 1327-53-3                                               | 0.010   |
| I     | 11  | Dibutyl phthalate (DBP)                                                                                                      | 84-74-2                                                 | 0.010   |
| I     | 12  | Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD) | 25637-99-4<br>134237-50-6<br>134237-51-7<br>134237-52-8 | 0.010   |
| I     | 13  | Lead hydrogen arsenate *                                                                                                     | 7784-40-9                                               | 0.010   |
| I     | 14  | Sodium dichromate *                                                                                                          | 10588-01-9<br>7789-12-0                                 | 0.010   |
| I     | 15  | Triethyl arsenate *                                                                                                          | 15606-95-8                                              | 0.010   |
| II    | 16  | Acrylamide                                                                                                                   | 79-06-1                                                 | 0.010   |
| II    | 17  | 2,4-dinitrotoluene                                                                                                           | 121-14-2                                                | 0.010   |
| II    | 18  | Anthracene oil #                                                                                                             | 90640-80-5                                              | 0.010   |
| II    | 19  | Anthracene oil, anthracene paste #                                                                                           | 90640-81-6                                              | 0.010   |
| II    | 20  | Anthracene oil, anthracene paste, anthracene fraction #                                                                      | 91995-15-2                                              | 0.010   |

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| Batch | No. | Substance Name                                                | CAS No.                              | MDL (%) |
|-------|-----|---------------------------------------------------------------|--------------------------------------|---------|
| II    | 21  | Anthracene oil, anthracene paste, distrn. lights #            | 91995-17-4                           | 0.010   |
| II    | 22  | Anthracene oil, anthracene-low #                              | 90640-82-7                           | 0.010   |
| II    | 23  | Diisobutyl phthalate (DIBP)                                   | 84-69-5                              | 0.010   |
| II    | 24  | Lead chromate *                                               | 7758-97-6                            | 0.010   |
| II    | 25  | Lead chromate molybdate sulphate red (C.I. Pigment Red 104) * | 12656-85-8                           | 0.010   |
| II    | 26  | Lead sulfochromate yellow (C.I. Pigment Yellow 34)*           | 1344-37-2                            | 0.010   |
| II    | 27  | Pitch, coal tar, high-temp. #                                 | 65996-93-2                           | 0.010   |
| II    | 28  | Tris(2-chloroethyl) phosphate (TCEP)                          | 115-96-8                             | 0.010   |
| III   | 29  | Ammonium dichromate*                                          | 7789-09-5                            | 0.010   |
| III   | 30  | Boric acid *                                                  | 11113-50-1<br>10043-35-3             | 0.010   |
| III   | 31  | Disodium tetraborate, anhydrous *                             | 12179-04-3<br>1303-96-4<br>1330-43-4 | 0.010   |
| III   | 32  | Potassium chromate*                                           | 7789-00-6                            | 0.010   |
| III   | 33  | Potassium dichromate*                                         | 7778-50-9                            | 0.010   |
| III   | 34  | Sodium chromate*                                              | 7775-11-3                            | 0.010   |
| III   | 35  | Tetraboron disodium heptaoxide, hydrate *                     | 12267-73-1                           | 0.010   |
| III   | 36  | Trichloroethylene                                             | 79-01-6                              | 0.010   |
| IV    | 37  | 2-ethoxyethanol                                               | 110-80-5                             | 0.010   |
| IV    | 38  | 2-methoxyethanol                                              | 109-86-4                             | 0.010   |
| IV    | 39  | Acids generated from chromium trioxide and their oligomers*   | 7738-94-5<br>13530-68-2              | 0.010   |
| IV    | 40  | Chromium trioxide*                                            | 1333-82-0                            | 0.010   |
| IV    | 41  | Cobalt(II) carbonate*                                         | 513-79-1                             | 0.010   |

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| Batch | No. | Substance Name                                                                  | CAS No.               | MDL (%) |
|-------|-----|---------------------------------------------------------------------------------|-----------------------|---------|
| IV    | 42  | Cobalt(II) diacetate*                                                           | 71-48-7               | 0.010   |
| IV    | 43  | Cobalt(II) dinitrate*                                                           | 10141-05-6            | 0.010   |
| IV    | 44  | Cobalt(II) sulphate*                                                            | 10124-43-3            | 0.010   |
| V     | 45  | 1,2,3-trichloropropane                                                          | 96-18-4               | 0.010   |
| V     | 46  | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)     | 71888-89-6            | 0.010   |
| V     | 47  | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) | 68515-42-4            | 0.010   |
| V     | 48  | 1-Methyl-2-pyrrolidone (NMP)                                                    | 872-50-4              | 0.010   |
| V     | 49  | 2-ethoxyethyl acetate                                                           | 111-15-9              | 0.010   |
| V     | 50  | Hydrazine                                                                       | 302-01-2<br>7803-57-8 | 0.010   |
| V     | 51  | Strontium chromate*                                                             | 7789-06-2             | 0.010   |
| VI    | 52  | 1,2-dichloroethane                                                              | 107-06-2              | 0.010   |
| VI    | 53  | 2,2'-dichloro-4,4'-methylenedianiline (MOCA)                                    | 101-14-4              | 0.010   |
| VI    | 54  | 2-Methoxyaniline, o-Anisidine                                                   | 90-04-0               | 0.010   |
| VI    | 55  | 4-(1,1,3,3-tetramethylbutyl)phenol                                              | 140-66-9              | 0.010   |
| VI    | 56  | Aluminosilicate Refractory Ceramic Fibres**                                     | -                     | 0.010   |
| VI    | 57  | Arsenic acid*                                                                   | 7778-39-4             | 0.010   |
| VI    | 58  | Bis(2-methoxyethyl) ether                                                       | 111-96-6              | 0.010   |
| VI    | 59  | Bis(2-methoxyethyl) phthalate                                                   | 117-82-8              | 0.010   |
| VI    | 60  | Calcium arsenate*                                                               | 7778-44-1             | 0.010   |
| VI    | 61  | Dichromium tris(chromate)*                                                      | 24613-89-6            | 0.010   |
| VI    | 62  | Formaldehyde, oligomeric reaction products with aniline                         | 25214-70-4            | 0.010   |
| VI    | 63  | Lead diazide, Lead azide*                                                       | 13424-46-9            | 0.010   |

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| Batch | No. | Substance Name                                                                                                                                                                                                                  | CAS No.    | MDL (%) |
|-------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|
| VI    | 64  | Lead dipicrate*                                                                                                                                                                                                                 | 6477-64-1  | 0.010   |
| VI    | 65  | Lead styphnate*                                                                                                                                                                                                                 | 15245-44-0 | 0.010   |
| VI    | 66  | N,N-dimethylacetamide (DMAC)                                                                                                                                                                                                    | 127-19-5   | 0.010   |
| VI    | 67  | Pentazinc chromate octahydroxide*                                                                                                                                                                                               | 49663-84-5 | 0.010   |
| VI    | 68  | Phenolphthalein                                                                                                                                                                                                                 | 77-09-8    | 0.010   |
| VI    | 69  | Potassium hydroxyoctaoxodizincatedichromate*                                                                                                                                                                                    | 11103-86-9 | 0.010   |
| VI    | 70  | Trilead diarsenate *                                                                                                                                                                                                            | 3687-31-8  | 0.010   |
| VI    | 71  | Zirconia Aluminosilicate Refractory Ceramic Fibres **                                                                                                                                                                           | -          | 0.010   |
| VII   | 72  | 1,2-bis(2-methoxyethoxy)ethane (TEGDME, triglyme)                                                                                                                                                                               | 112-49-2   | 0.010   |
| VII   | 73  | 1,2-dimethoxyethane, ethylene glycol dimethyl ether (EGDME)                                                                                                                                                                     | 110-71-4   | 0.010   |
| VII   | 74  | 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)                                                                                                                                                              | 2451-62-9  | 0.010   |
| VII   | 75  | 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)                                                                                                                                         | 59653-74-6 | 0.010   |
| VII   | 76  | 4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol                                                                                                                                                                          | 561-41-1   | 0.010   |
| VII   | 77  | 4,4'-bis(dimethylamino)benzophenone (Michler's ketone)                                                                                                                                                                          | 90-94-8    | 0.010   |
| VII   | 78  | [4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)                | 548-62-9   | 0.010   |
| VII   | 79  | [4-[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26) with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2) | 2580-56-5  | 0.010   |
| VII   | 80  | Diboron trioxide*                                                                                                                                                                                                               | 1303-86-2  | 0.010   |
| VII   | 81  | Formamide                                                                                                                                                                                                                       | 75-12-7    | 0.010   |
| VII   | 82  | Lead(II) bis(methanesulfonate) *                                                                                                                                                                                                | 17570-76-2 | 0.010   |

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| Batch | No. | Substance Name                                                                                                                                                                                          | CAS No.                             | MDL (%) |
|-------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------|
| VII   | 83  | N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)                                                                                                                                          | 101-61-1                            | 0.010   |
| VII   | 84  | $\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2) | 6786-83-0                           | 0.010   |
| VIII  | 85  | 1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear                                                                                                                                       | 84777-06-0                          | 0.010   |
| VIII  | 86  | 1,2-diethoxyethane                                                                                                                                                                                      | 629-14-1                            | 0.010   |
| VIII  | 87  | 1-bromopropane (n-propyl bromide)                                                                                                                                                                       | 106-94-5                            | 0.010   |
| VIII  | 88  | 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine                                                                                                                                                      | 143860-04-2                         | 0.010   |
| VIII  | 89  | 4,4'-methylenedi-o-toluidine                                                                                                                                                                            | 838-88-0                            | 0.010   |
| VIII  | 90  | 4,4'-oxydianiline and its salts                                                                                                                                                                         | 101-80-4                            | 0.010   |
| VIII  | 91  | 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated #                                                                                                                                                       | -                                   | 0.010   |
| VIII  | 92  | 4-aminoazobenzene                                                                                                                                                                                       | 60-09-3                             | 0.010   |
| VIII  | 93  | 4-methyl-m-phenylenediamine (toluene-2,4-diamine)                                                                                                                                                       | 95-80-7                             | 0.010   |
| VIII  | 94  | 4-Nonylphenol, branched and linear #                                                                                                                                                                    | -                                   | 0.010   |
| VIII  | 95  | 6-methoxy-m-toluidine (p-cresidine)                                                                                                                                                                     | 120-71-8                            | 0.010   |
| VIII  | 96  | [Phthalato(2-)]dioxotrilead*                                                                                                                                                                            | 69011-06-9                          | 0.010   |
| VIII  | 97  | Acetic acid, lead salt, basic*                                                                                                                                                                          | 51404-69-4                          | 0.010   |
| VIII  | 98  | Biphenyl-4-ylamine                                                                                                                                                                                      | 92-67-1                             | 0.010   |
| VIII  | 99  | Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)                                                                                                                                         | 1163-19-5                           | 0.010   |
| VIII  | 100 | Cyclohexane-1,2-dicarboxylic anhydride<br>cis-cyclohexane-1,2-dicarboxylic anhydride<br>trans-cyclohexane-1,2-dicarboxylic anhydride                                                                    | 85-42-7<br>13149-00-3<br>14166-21-3 | 0.010   |
| VIII  | 101 | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)                                                                                                                                                | 123-77-3                            | 0.010   |
| VIII  | 102 | Dibutyltin dichloride (DBTC)                                                                                                                                                                            | 683-18-1                            | 0.010   |

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|-------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|---------|
| VIII  | 103 | Diethyl sulphate                                                                                                                                          | 64-67-5                                              | 0.010   |
| VIII  | 104 | Diisopentyl phthalate (DIPP)                                                                                                                              | 605-50-5                                             | 0.010   |
| VIII  | 105 | Dimethyl sulphate                                                                                                                                         | 77-78-1                                              | 0.010   |
| VIII  | 106 | Dinoseb (6-sec-butyl-2,4-dinitrophenol)                                                                                                                   | 88-85-7                                              | 0.010   |
| VIII  | 107 | Dioxobis(stearato)trilead *                                                                                                                               | 12578-12-0                                           | 0.010   |
| VIII  | 108 | Fatty acids, C16-18, lead salts *                                                                                                                         | 91031-62-8                                           | 0.010   |
| VIII  | 109 | Furan                                                                                                                                                     | 110-00-9                                             | 0.010   |
| VIII  | 110 | Henicosafuoroundecanoic acid                                                                                                                              | 2058-94-8                                            | 0.010   |
| VIII  | 111 | Heptacosafuorotetradecanoic acid                                                                                                                          | 376-06-7                                             | 0.010   |
| VIII  | 112 | Hexahydromethylphthalic anhydride<br>Hexahydro-3-methylphthalic anhydride<br>Hexahydro-4-methylphthalic anhydride<br>Hexahydro-1-methylphthalic anhydride | 25550-51-0<br>57110-29-9<br>19438-60-9<br>48122-14-1 | 0.010   |
| VIII  | 113 | Lead bis(tetrafluoroborate)*                                                                                                                              | 13814-96-5                                           | 0.010   |
| VIII  | 114 | Lead cyanamidate*                                                                                                                                         | 20837-86-9                                           | 0.010   |
| VIII  | 115 | Lead dinitrate*                                                                                                                                           | 10099-74-8                                           | 0.010   |
| VIII  | 116 | Lead monoxide (lead oxide) *                                                                                                                              | 1317-36-8                                            | 0.010   |
| VIII  | 117 | Lead oxide sulfate *                                                                                                                                      | 12036-76-9                                           | 0.010   |
| VIII  | 118 | Lead titanium trioxide*                                                                                                                                   | 12060-00-3                                           | 0.010   |
| VIII  | 119 | Lead titanium zirconium oxide*                                                                                                                            | 12626-81-2                                           | 0.010   |
| VIII  | 120 | Methoxyacetic acid                                                                                                                                        | 625-45-6                                             | 0.010   |
| VIII  | 121 | Methyloxirane (Propylene oxide).                                                                                                                          | 75-56-9                                              | 0.010   |
| VIII  | 122 | N,N-dimethylformamide (DMF)                                                                                                                               | 68-12-2                                              | 0.010   |
| VIII  | 123 | N-methylacetamide                                                                                                                                         | 79-16-3                                              | 0.010   |

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| Batch | No. | Substance Name                                                                  | CAS No.     | MDL (%) |
|-------|-----|---------------------------------------------------------------------------------|-------------|---------|
| VIII  | 124 | N-pentyl-isopentylphthalate (iPnP)                                              | 776297-69-9 | 0.010   |
| VIII  | 125 | o-aminoazotoluene                                                               | 97-56-3     | 0.010   |
| VIII  | 126 | o-toluidine                                                                     | 95-53-4     | 0.010   |
| VIII  | 127 | Orange lead (lead tetroxide)*                                                   | 1314-41-6   | 0.010   |
| VIII  | 128 | Pentacosafuorotridecanoic acid                                                  | 72629-94-8  | 0.010   |
| VIII  | 129 | Pentalead tetraoxide sulphate *                                                 | 12065-90-6  | 0.010   |
| VIII  | 130 | Pyrochlore, antimony lead yellow *                                              | 8012-00-8   | 0.010   |
| VIII  | 131 | Silicic acid (H <sub>2</sub> SiO <sub>5</sub> ), barium salt (1:1), lead-doped* | 68784-75-8  | 0.010   |
| VIII  | 132 | Silicic acid, lead salt*                                                        | 11120-22-2  | 0.010   |
| VIII  | 133 | Sulfurous acid, lead salt, dibasic *                                            | 62229-08-7  | 0.010   |
| VIII  | 134 | Tetraethyllead *                                                                | 78-00-2     | 0.010   |
| VIII  | 135 | Tetralead trioxide sulphate *                                                   | 12202-17-4  | 0.010   |
| VIII  | 136 | Tricosafuorododecanoic acid                                                     | 307-55-1    | 0.010   |
| VIII  | 137 | Trilead bis(carbonate) dihydroxide*                                             | 1319-46-6   | 0.010   |
| VIII  | 138 | Trilead dioxide phosphonate*                                                    | 12141-20-7  | 0.010   |
| IX    | 139 | 4-Nonylphenol, branched and linear, ethoxylated #                               | -           | 0.010   |
| IX    | 140 | Ammonium pentadecafluorooctanoate (APFO)                                        | 3825-26-1   | 0.010   |
| IX    | 141 | Cadmium*                                                                        | 7440-43-9   | 0.010   |
| IX    | 142 | Cadmium oxide*                                                                  | 1306-19-0   | 0.010   |
| IX    | 143 | Dipentyl phthalate (DPP)                                                        | 131-18-0    | 0.010   |
| IX    | 144 | Pentadecafluorooctanoic acid (PFOA)                                             | 335-67-1    | 0.010   |
| X     | 145 | Cadmium sulphide*                                                               | 1306-23-6   | 0.010   |

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| Batch | No. | Substance Name                                                                                                                                                                                                                                               | CAS No.                   | MDL (%) |
|-------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------|
| X     | 146 | Diethyl phthalate (DNHP)                                                                                                                                                                                                                                     | 84-75-3                   | 0.010   |
| X     | 147 | Disodium,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)                                                                                                                                                     | 573-58-0                  | 0.010   |
| X     | 148 | 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                 | 0.010   |
| X     | 149 | Imidazolidine-2-thione (2-imidazoline-2-thiol)                                                                                                                                                                                                               | 96-45-7                   | 0.010   |
| X     | 150 | Lead di(acetate) *                                                                                                                                                                                                                                           | 301-04-2                  | 0.010   |
| X     | 151 | Triethyl phosphate                                                                                                                                                                                                                                           | 25155-23-1                | 0.010   |
| XI    | 152 | 1,2-Benzenedicarboxylic acid, diethyl ester, branched and linear                                                                                                                                                                                             | 68515-50-4                | 0.010   |
| XI    | 153 | Cadmium chloride *                                                                                                                                                                                                                                           | 10108-64-2                | 0.010   |
| XI    | 154 | Sodium perborate, perboric acid, sodium salt*                                                                                                                                                                                                                | -                         | 0.010   |
| XI    | 155 | Sodium peroxometaborate *                                                                                                                                                                                                                                    | 7632-04-4                 | 0.010   |
| XII   | 156 | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)                                                                                                                                                                                                     | 25973-55-1                | 0.010   |
| XII   | 157 | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)                                                                                                                                                                                                         | 3846-71-7                 | 0.010   |
| XII   | 158 | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)                                                                                                                                                                       | 15571-58-1                | 0.010   |
| XII   | 159 | Cadmium fluoride *                                                                                                                                                                                                                                           | 7790-79-6                 | 0.010   |
| XII   | 160 | Cadmium sulphate *                                                                                                                                                                                                                                           | 10124-36-4,<br>31119-53-6 | 0.010   |
| XII   | 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) | -                         | 0.010   |
| XIII  | 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 diethyl phthalate                                                                                                    | -                         | 0.010   |
| XIII  | 163 | 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-dioxane [2], covering any of the individual stereoisomers of [1] and [2] or any combination thereof                     | -                         | 0.010   |

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| Batch | No. | Substance Name                                                                                                                                                                                                                                  | CAS No.                             | MDL (%) |
|-------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------|
| XIV   | 164 | 1,3-propanesultone                                                                                                                                                                                                                              | 1120-71-4                           | 0.010   |
| XIV   | 165 | 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)                                                                                                                                                                                  | 3864-99-1                           | 0.010   |
| XIV   | 166 | 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)                                                                                                                                                                            | 36437-37-3                          | 0.010   |
| XIV   | 167 | Nitrobenzene                                                                                                                                                                                                                                    | 98-95-3                             | 0.010   |
| XIV   | 168 | Perfluorononan-1-oic-acid and its sodium and ammonium salts                                                                                                                                                                                     | 375-95-1<br>21049-39-8<br>4149-60-4 | 0.010   |
| XV    | 169 | Benzo[a]pyrene                                                                                                                                                                                                                                  | 50-32-8                             | 0.010   |
| XVI   | 170 | 4,4'-isopropylidenediphenol (bisphenol A)                                                                                                                                                                                                       | 80-05-7                             | 0.010   |
| XVI   | 171 | Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts                                                                                                                                                                            | 335-76-2<br>3830-45-3<br>3108-42-7  | 0.010   |
| XVI   | 172 | 4-Heptylphenol, branched and linear (4-HPbl)                                                                                                                                                                                                    | -                                   | 0.010   |
| XVI   | 173 | p-(1,1-dimethylpropyl)phenol (PTAP)                                                                                                                                                                                                             | 80-46-6                             | 0.010   |
| XVII  | 174 | Perfluorohexane-1-sulphonic acid and its salts (PFHxS)                                                                                                                                                                                          | -                                   | 0.010   |
| XVIII | 175 | Benz[a]anthracene                                                                                                                                                                                                                               | 56-55-3                             | 0.010   |
| XVIII | 176 | Cadmium carbonate *                                                                                                                                                                                                                             | 513-78-0                            | 0.010   |
| XVIII | 177 | Cadmium hydroxide *                                                                                                                                                                                                                             | 21041-95-2                          | 0.010   |
| XVIII | 178 | Cadmium nitrate *                                                                                                                                                                                                                               | 10325-94-7                          | 0.010   |
| XVIII | 179 | Chrysene                                                                                                                                                                                                                                        | 218-01-9                            | 0.010   |
| XVIII | 180 | 1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.1 <sup>6,9</sup> .0 <sup>2,13</sup> .0 <sup>5,10</sup> ]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof] | -                                   | 0.010   |
| XVIII | 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]                                                                      | -                                   | 0.010   |
| XIX   | 182 | Octamethylcyclotetrasiloxane (D4)                                                                                                                                                                                                               | 556-67-2                            | 0.010   |

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| Batch | No. | Substance Name                                                                                                                                                         | CAS No.     | MDL (%) |
|-------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|
| XIX   | 183 | Decamethylcyclopentasiloxane (D5)                                                                                                                                      | 541-02-6    | 0.010   |
| XIX   | 184 | Dodecamethylcyclohexasiloxane (D6)                                                                                                                                     | 540-97-6    | 0.010   |
| XIX   | 185 | Lead *                                                                                                                                                                 | 7439-92-1   | 0.010   |
| XIX   | 186 | Disodium octaborate *                                                                                                                                                  | 12008-41-2  | 0.010   |
| XIX   | 187 | Benzo[ghi]perylene                                                                                                                                                     | 191-24-2    | 0.010   |
| XIX   | 188 | Terphenyl, hydrogenated                                                                                                                                                | 61788-32-7  | 0.010   |
| XIX   | 189 | Ethylenediamine (EDA)                                                                                                                                                  | 107-15-3    | 0.010   |
| XIX   | 190 | Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)                                                                                           | 552-30-7    | 0.010   |
| XIX   | 191 | Dicyclohexyl phthalate (DCHP)                                                                                                                                          | 84-61-7     | 0.010   |
| XX    | 192 | 2,2-bis(4'-hydroxyphenyl)-4-methylpentane                                                                                                                              | 6807-17-6   | 0.010   |
| XX    | 193 | Benzo[k]fluoranthene                                                                                                                                                   | 207-08-9    | 0.010   |
| XX    | 194 | Fluoranthene                                                                                                                                                           | 206-44-0    | 0.010   |
| XX    | 195 | Phenanthrene                                                                                                                                                           | 85-01-8     | 0.010   |
| XX    | 196 | Pyrene                                                                                                                                                                 | 129-00-0    | 0.010   |
| XX    | 197 | 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor; 3-BC)                                                                            | 15087-24-8  | 0.010   |
| XXI   | 198 | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof) (HFPO-DA) | -           | 0.010   |
| XXI   | 199 | 2-methoxyethyl acetate                                                                                                                                                 | 110-49-6    | 0.010   |
| XXI   | 200 | 4-tert-butylphenol                                                                                                                                                     | 98-54-4     | 0.010   |
| XXI   | 201 | Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)                                           | -           | 0.010   |
| XXII  | 202 | 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone                                                                                                                    | 119313-12-1 | 0.010   |
| XXII  | 203 | 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one                                                                                                               | 71868-10-5  | 0.010   |

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| Batch | No. | Substance Name                                                                                                                                                                                               | CAS No.                                         | MDL (%) |
|-------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------|
| XXII  | 204 | Diisohexyl phthalate                                                                                                                                                                                         | 71850-09-4                                      | 0.010   |
| XXII  | 205 | Perfluorobutane sulfonic acid (PFBS) and its salts                                                                                                                                                           | -                                               | 0.010   |
| XXIII | 206 | 1-vinylimidazole                                                                                                                                                                                             | 1072-63-5                                       | 0.010   |
| XXIII | 207 | 2-methylimidazole                                                                                                                                                                                            | 693-98-1                                        | 0.010   |
| XXIII | 208 | Butyl 4-hydroxybenzoate                                                                                                                                                                                      | 94-26-8                                         | 0.010   |
| XXIII | 209 | Dibutylbis(pentane-2,4-dionato-O,O')tin                                                                                                                                                                      | 22673-19-4                                      | 0.010   |
| XXIV  | 210 | Bis(2-(2-methoxyethoxy)ethyl) ether                                                                                                                                                                          | 143-24-8                                        | 0.010   |
| XXIV  | 211 | Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety | -                                               | 0.010   |
| XXV   | 212 | 1,4-dioxane                                                                                                                                                                                                  | 123-91-1                                        | 0.010   |
| XXV   | 213 | 2,2-bis(bromomethyl)propane1,3-diol (BMP)<br>2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA)<br>2,3-dibromo-1-propanol (2,3-DBPA)                               | 3296-90-0<br>36483-57-5<br>1522-92-5<br>96-13-9 | 0.010   |
| XXV   | 214 | 2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers                                                                                                                                       | -                                               | 0.010   |
| XXV   | 215 | 4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)                                                                                                                                                           | 77-40-7                                         | 0.010   |
| XXV   | 216 | Glutaral                                                                                                                                                                                                     | 111-30-8                                        | 0.010   |
| XXV   | 217 | Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]                          | -                                               | 0.010   |
| XXV   | 218 | Orthoboric acid, sodium salt *                                                                                                                                                                               | 13840-56-7                                      | 0.010   |
| XXV   | 219 | Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)                | -                                               | 0.010   |
| XXVI  | 220 | 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol                                                                                                                                                                 | 119-47-1                                        | 0.010   |
| XXVI  | 221 | Tris(2-methoxyethoxy) vinylsilane                                                                                                                                                                            | 1067-53-4                                       | 0.010   |

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| Batch  | No. | Substance Name                                                                                                                                                  | CAS No.     | MDL (%) |
|--------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|
| XXVI   | 222 | (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene] bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)         | -           | 0.010   |
| XXVI   | 223 | S-(tricyclo(5.2.1.0 <sup>2,6</sup> )deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate | 255881-94-8 | 0.010   |
| XXVII  | 224 | N-(hydroxymethyl)acrylamide                                                                                                                                     | 924-42-5    | 0.010   |
| XXVIII | 225 | 1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]                                                                                                        | 37853-59-1  | 0.010   |
| XXVIII | 226 | 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol                                                                                                                | 79-94-7     | 0.010   |
| XXVIII | 227 | 4,4'-sulphonyldiphenol                                                                                                                                          | 80-09-1     | 0.010   |
| XXVIII | 228 | Barium diboron tetraoxide *                                                                                                                                     | 13701-59-2  | 0.010   |
| XXVIII | 229 | Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof                                                        | -           | 0.010   |
| XXVIII | 230 | Isobutyl 4-hydroxybenzoate                                                                                                                                      | 4247-02-3   | 0.010   |
| XXVIII | 231 | Melamine                                                                                                                                                        | 108-78-1    | 0.010   |
| XXVIII | 232 | Perfluoroheptanoic acid and its salts                                                                                                                           | -           | 0.010   |
| XXVIII | 233 | Reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine   | -           | 0.010   |
| XXIX   | 234 | Bis(4-chlorophenyl) sulphone                                                                                                                                    | 80-07-9     | 0.010   |
| XXIX   | 235 | Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide                                                                                                                 | 75980-60-8  | 0.010   |
| XXX    | 236 | Bumetizole (UV-326)                                                                                                                                             | 3896-11-5   | 0.010   |
| XXX    | 237 | 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)                                                                                            | 3147-75-9   | 0.010   |
| XXX    | 238 | 2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one                                                                            | 119344-86-4 | 0.010   |
| XXX    | 239 | 2,4,6-tri-tert-butylphenol                                                                                                                                      | 732-26-3    | 0.010   |
| XXX    | 240 | Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol                                                                                  | -           | 0.010   |
| XXXI   | 241 | Bis(α,α-dimethylbenzyl) peroxide                                                                                                                                | 80-43-3     | 0.010   |

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| Batch | No. | Substance Name      | CAS No.  | MDL (%) |
|-------|-----|---------------------|----------|---------|
| XXXI  | 242 | Triphenyl phosphate | 115-86-6 | 0.010   |

## Remark:

1. ND = Not Detected (less than MDL) MDL = Method Detection Limit 0.1%=1000mg/kg=1000ppm
2. \* = Result is based on the representative heavy metal concentration. Due to the limit of the analytical technology available, when the calculated result of target substance by chemometrics is higher than the request limit, the client is strongly advised to review the chemical formulation to ascertain.
3. # = The SVHC which is defined as UVCB substance (substances of **U**nknown or **V**ariable composition, **C**omplex reaction products or **B**iological materials) under REACH regulation cannot be sufficiently identified by its chemical composition as the number of constituents is relatively large and/or the composition is, to a significant part, unknown and/or the variability of composition is relatively large or poorly predictable. So the test result is calculated as per the selected identifiers of the SVHC basing on the worst-case scenario.
4. According to the REACH regulation (EC) No. 1907/2006, the request limit is 0.1% for SVHC in the article.
5. If a SVHC is found over the method detection limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by further request of quantitative analysis.

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## Notes:

1. The limit of 0.1% (w / w) applies to an article. The results were calculated assuming that the submitted sample was an article. However, the results may not be applicable if the intended use of the sample is a substance or mixture. According to REACH, the definitions of article, substance or mixture are:
  - i. Article - An object during production is given a special shape, surface or design which determines its function to a greater degree than does its chemical composition.
  - ii. Substance - A chemical element and its compound in the natural state or obtained by any manufacturing process.
  - iii. Mixture (Previously known as "Preparation") - A mixture or solution composed of two or more substances.
2. In accordance with Article 7 of Regulation (EC) No. 1907 / 2006 (REACH regulation) – Registration and notification of substances in articles, any producer or importer of articles shall notify ECHA, if a substance meeting the criteria in Article 57 and is identified in accordance with Article 59(1), if both (1) the substance is present in those articles in quantities totalling over 1 tonne per producer or importer per year & (2) the substance is present in those articles above a concentration of 0.1% weight by weight (w / w) are met. The information to be notified shall include (a) identity and contact details of the producer or importer, (b) the registration numbers, (c) the identity of the substance and (d) the classification of the substance, (e) a brief description of the use of the substance and (f) the tonnage range of the substance.
3. In accordance with Article 33 of Regulation (EC) No. 1907 / 2006 (REACH regulation) – Duty to communicate information on substances in articles, any supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in concentration above 0.1% weight by weight (w / w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance. On request by a consumer the relevant information shall be provided by any supplier of an article free of charge, within 45 days of receipt of the request.

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Add: Room 111&112, Building 8, -1&2/F., Office Building 2, Zone A, Zhongda Marine Biotechnology Research and Development Base, No.9, Xincheng Avenue, Songshan Lake High-Tech Industrial Development Zone, Dongguan, Guangdong, China [Http://www.emtek.com.cn](http://www.emtek.com.cn) E-mail: [project@emtek.com.cn](mailto:project@emtek.com.cn)



# Test Report

No.: EDG2501060090C00501R

Date: Jan. 23, 2025

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## Sample Photo



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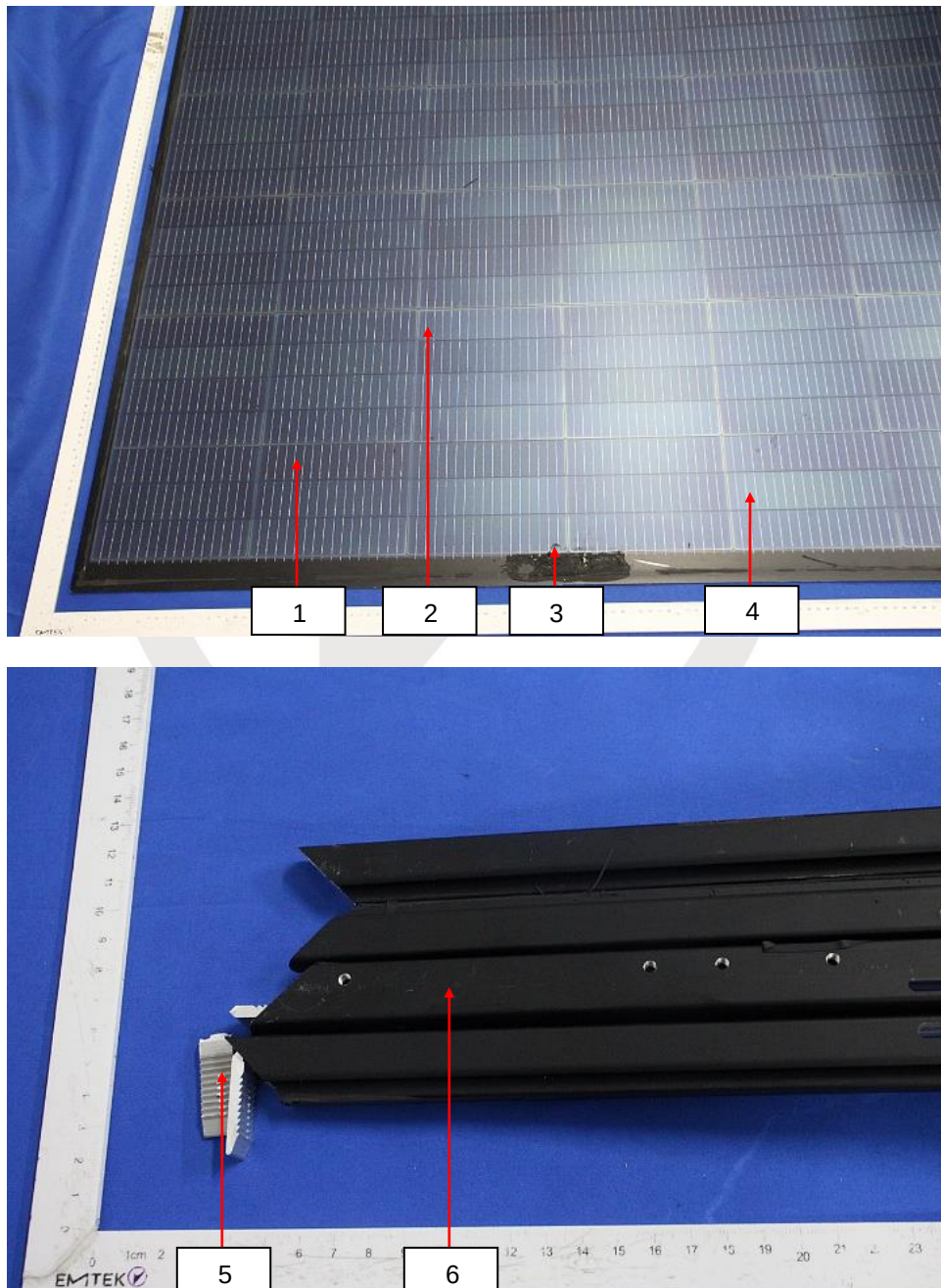
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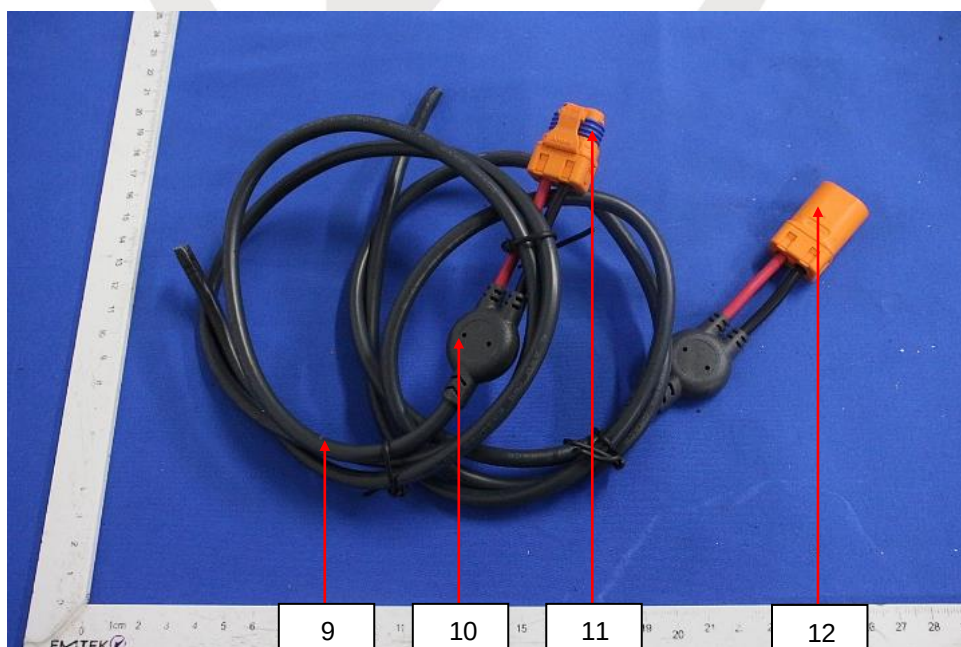
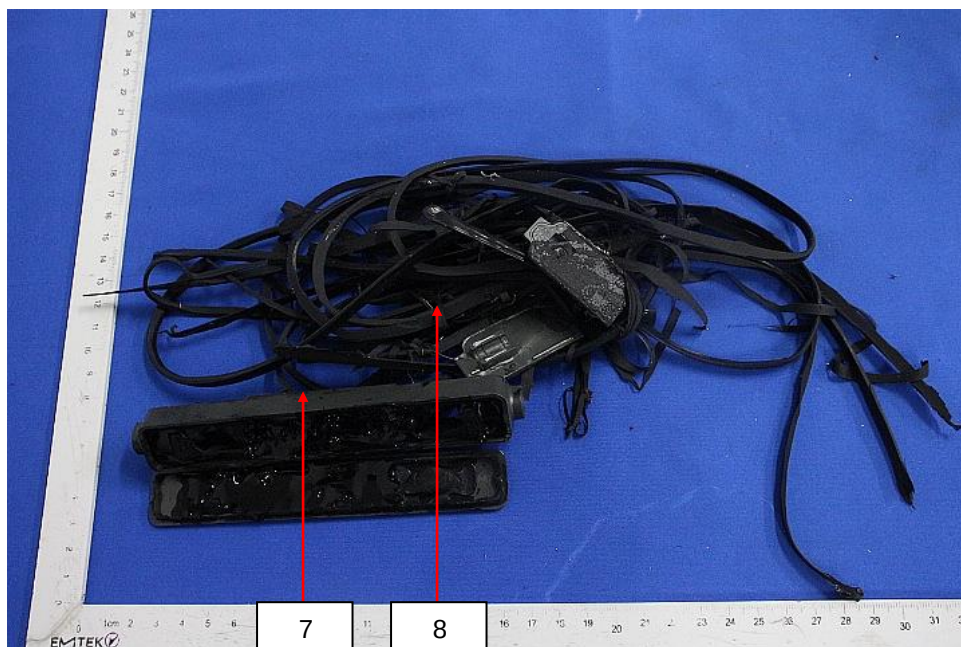
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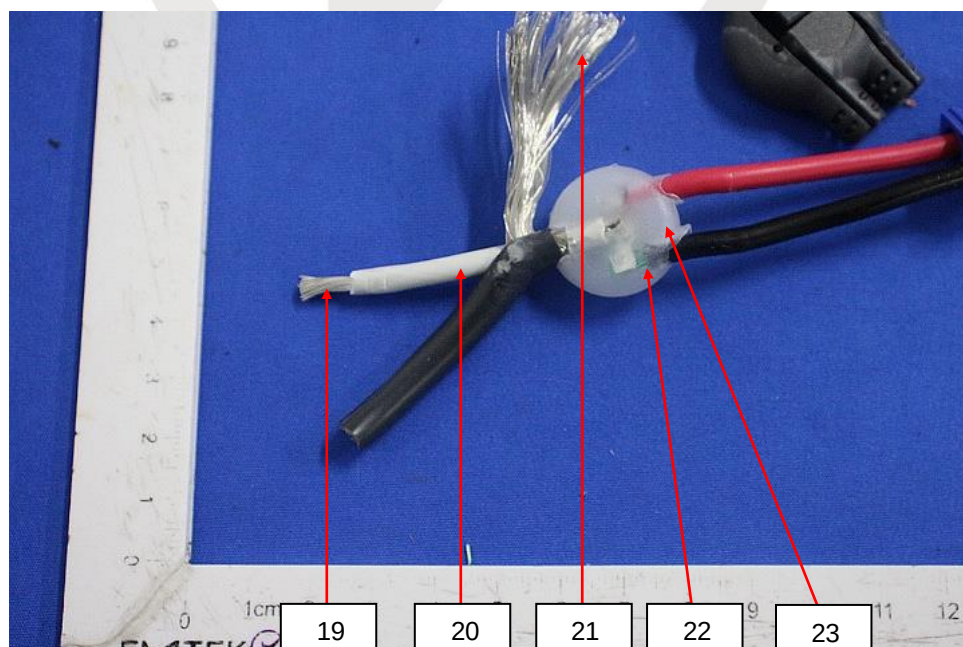
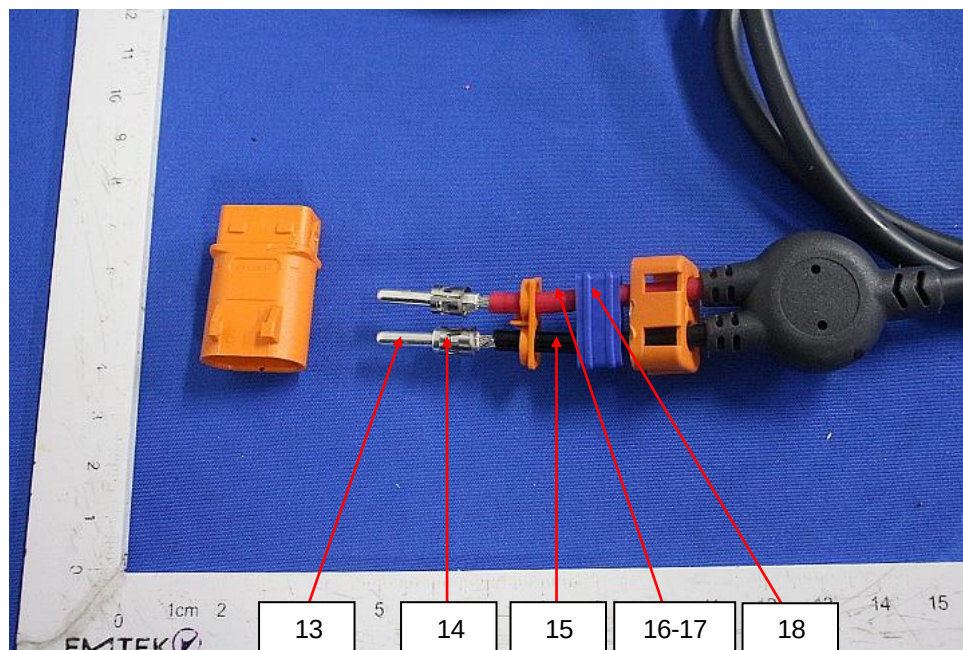
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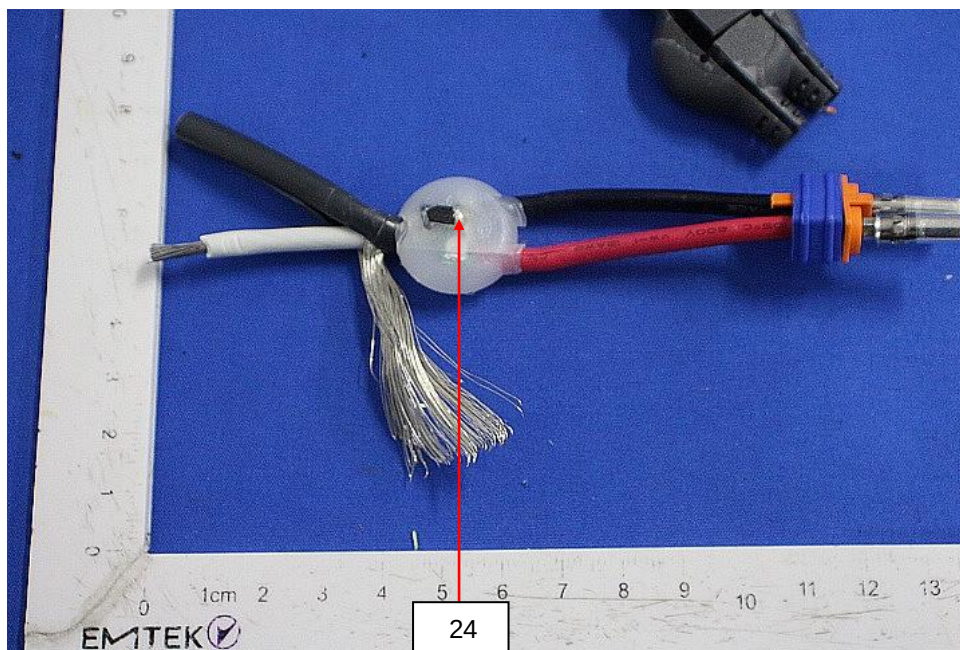
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## Sample Photo



\*\*\* End of Report \*\*\*

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The information as listed on the first page of this test report was all provided by the client except the sample from, date received, test period, test results and test conclusion. The client shall be responsible for the representativeness of sample and authenticity of materials, for which EMTEK shall bear no responsibilities.

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5. 本检测报告中检测项目标注有特殊符号则该项目不在本实验室资质认定能力范围内，该项目检测结果仅作为客户委托、科研、教学或内部质量控制等目的使用。

The test items are marked with special symbols in the report is out of the scope of CMA accreditation. The test result only used for client's requirement, scientific researching, teaching or internal quality control.

6. 其它声明请查阅报告页脚及书面报告末页。

For other statements, please refer to the footer of the report.

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东莞市信测科技有限公司 EMTEK (Dongguan) Co., Ltd. 地址: 广东省东莞市松山湖高新技术产业开发区新城大道9号中海洋生物科技研发基地A区2号办公楼负一层、第二层/8栋111室、112室 网址: <http://www.emtek.com.cn> 邮箱: [project@emtek.com.cn](mailto:project@emtek.com.cn)

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All samples and goods are accepted by the EMTEK (Dongguan) Co., Ltd. (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the Company and any person, firm or company requesting its services (the "Clients").
2. 由此测试申请所发出的任何报告（以下简称[报告]），本公司会严格为客户保密。未经本公司的书面同意，报告的整体或部分不得复制，也不得用于广告或授权的其他用途。然而，客户可以将本公司印制的报告或认可的副本，向其客户、供货商或直接相关的其他人出示或提交。除非相关政府部门、法律或法规要求，否则未经客户同意，本公司不得将报告内容向任何第三方讨论或披露。  
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3. 除非相关政府部门、法律或法院要求，否则未经公司预先书面同意，本公司毋需，也并无义务到法院对有关报告作证。  
The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. 如果本公司确定报告被不当地使用，本公司保留撤回报告的权利，并有权要求其它适当的额外赔偿。  
In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
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Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. 如因使用本公司中心任何报告内的资料，或任何传播信息所描述与之有关的测试或研究导致的任何损失或损害，本公司概不负责。  
The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. 若需要在法院审理程序或者仲裁过程中使用测试报告，客户必须在提交测试样品前将该意图告知本公司。  
Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. 该测试报告的支持数据和信息本公司保存 10 年。个别评审机构有特别要求的，检测数据和报告的保存期可依情况变动。一旦超过上述提交的保存期限，数据和信息将被处理掉。任何情况下，本公司不必提供任何被处理的过期数据或信息。即使本公司事先被告知可能会发生相关的损害，本公司在任何情况下也不必承担任何损害，包括（但不限于）补偿性赔偿、利润损失、数据遗失、或任何形式的特殊损害、附带损害、间接损害、从属损害或任何违反约定、违反承诺、侵权（包括疏忽）、产品责任或其他原因的惩罚性损害。  
Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of ten years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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