

Report No. 48.400.25.0796.01-00/03

Dated 2025-08-29



## SVHC Assessment Report

**Applicant:** Hengdian Group DMEGC Magnetics Co., LTD  
Hengdian Industrial Zone, 322118 Dongyang City, Zhejiang Province P.R. China

**Contact person:** Wang Guoqiang

**Test object:** The submitted Products were received and described by client as:  
**Product: PV Modules**  
**Model: DM445M10RT-B54HSW**  
**Additional Model refer to APPENDIX II**

**Purpose of Evaluation:** Based on the Candidate List, to test the listed 250 Substances of Very High Concern (SVHCs) for Authorisation updated on 25th June, 2025, which was published in accordance with Article 59(10) of the REACH Regulation (EC) No 1907/2006.

**Test method:** 1). Test portion is digested with acid, analyzed by ICP-OES and UV-VIS.  
2). Organic solvent extraction, analyzed by GC-MS, HPLC.

<b>Summary:</b>	The substances of Very High Concern concentration <b>less than 0.1%</b>	Group 1~10
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**Remark:**

1. The tested samples were identified and appointed by client.
2. The result relates only to the items tested.
3. As the client required, the sample was tested in mixture.

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## 1. Order

### 1.1 Date of Purchase Order

2025-07-01

### 1.2 Customer's Reference

Nil

### 1.3 Receipt Date of Test Sample

2025-06-25

2025-07-10 (Sample 12)

2025-07-21 (Sample 13)

2025-07-22 (Sample 19)

2025-08-01 (Sample 01)

2025-08-06 (Sample 05)

2025-08-19 (Sample 24)

### 1.4 Date of Testing

2025-07-01 – 2025-07-30

2025-08-01 – 2025-08-08 (Sample 01)

2025-08-06 – 2025-08-13 (Sample 05)

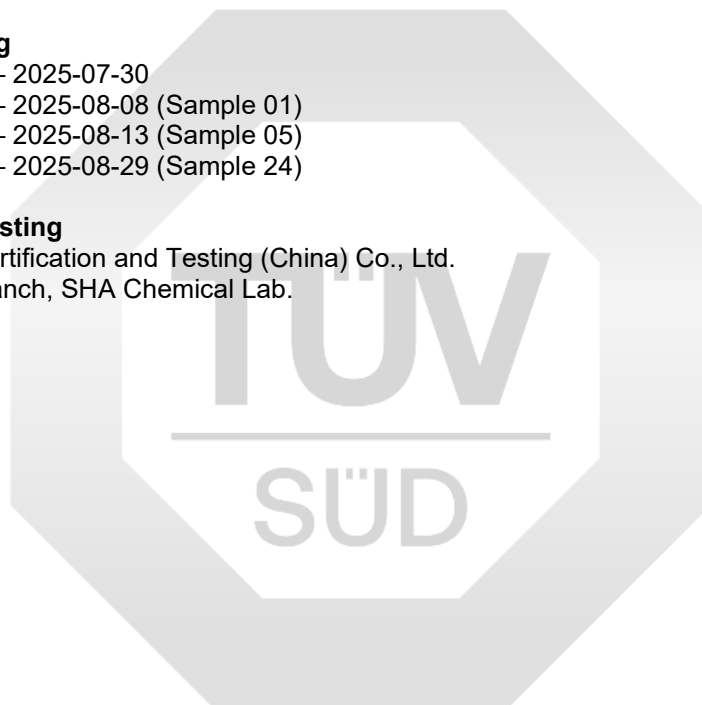
2025-08-19 – 2025-08-29 (Sample 24)

### 1.5 Location of Testing

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

Shanghai Branch, SHA Chemical Lab.

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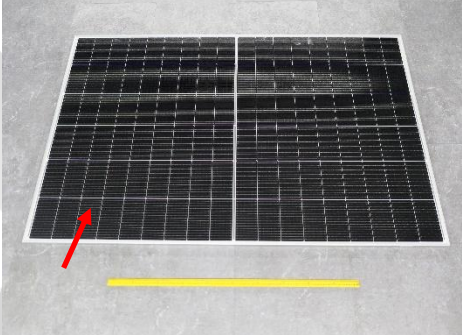
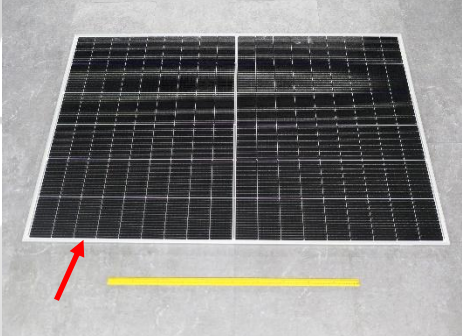
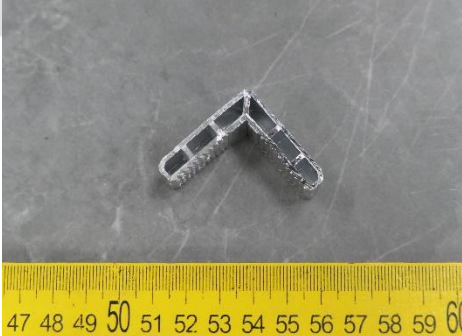
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2. Description of the Evaluated Product

Sample No	Description	Photograph
01	Translucent glass coating solution	
02	Transparent glass	
03	Silvery metal frame	
04	Silvery aluminium alloy hinge	

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Sample No	Description	Photograph
05	White glue	
06	Translucent plastic inner film	
07	Translucent plastic inner film	
08	Blue solar cell sheet	

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Sample No	Description	Photograph
09	Silvery label	
10	White label	
11	White glaze	
12	Silvery metal bus bar	

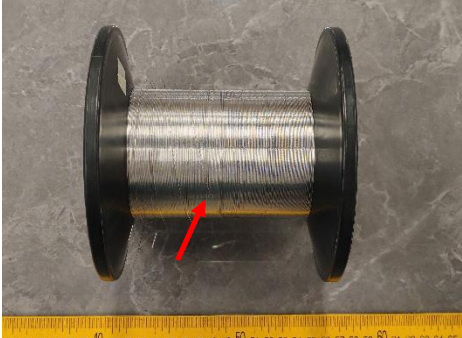



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Sample No	Description	Photograph
13	Silvery metal interconnect strip	
14	Brown plastic cable tie	
15	Black plastic junction box housing	
16	Golden copper alloy contact piece	

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Sample No	Description	Photograph
17	Black diode	
18	Silvery metal pin	
19	Silvery solder	
20	Black plastic plug	

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Sample No	Description	Photograph
21	Dark grey plastic sealing ring	
22	Black plastic sleeve	
23	Black plastic sleeve	
24	Black plastic sleeve	

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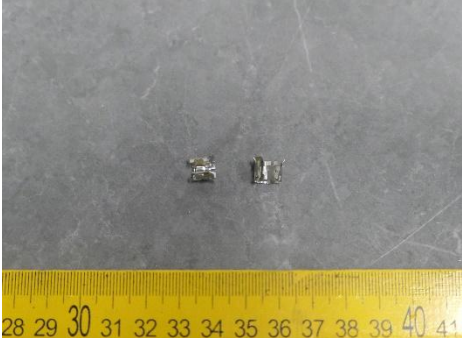



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Sample No	Description	Photograph
25	Silvery metal sleeve	
26	Silvery copper alloy contact pin	
27	Black plastic cable jacket	
28	Silvery copper alloy wire	

**Remark:**

According to requirement of “Guidance on requirements for substances in Articles”, Draft version 2.0.1, ECHA 2009, “A set of objects can not be regarded as one article, but has to be regarded as many articles. Objects which are supplied together in the same box and designed to be used together or assembled into a single object are to be assessed separately concerning their article status”.

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3. Test Data:

Group NO	Sample ID
Group 1	01
Group 2	02
Group 3	03+04+12+16+18+25+26+28
Group 4	05
Group 5	06+07+09+10+14
Group 6	08
Group 7	11
Group 8	13+19
Group 9	15+17+20+21+22+23+27
Group 10	24

Group NO	Concentration of each SVHC in the submitted Objects (%)	Conclusion
Group 1	<0.01%	PASS
Group 2	<0.1%	PASS
Group 3	<0.1%	PASS
Group 4	<0.1%	PASS
Group 5	<0.01%	PASS
Group 6	<0.1%	PASS
Group 7	<0.01%	PASS
Group 8	<0.01%	PASS
Group 9	<0.1%	PASS
Group 10	<0.01%	PASS

Remark:

\*: Please refer to following table with distinguished SVHC data over threshold limit 0.1%

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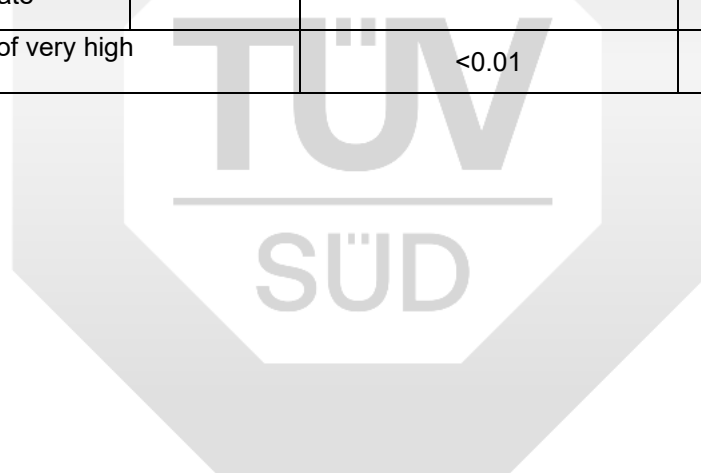


Group 2

Sample No	Description	Photograph
02	Transparent glass	

Test Item(s)	CAS No.	Result(s) (%)	Classification
		02	
Triethyl arsenate**	15606-95-8	0.01	Carcinogenic (article 57a)
Calcium arsenate**	7778-44-1	0.01	Carcinogenic (article 57 a)
Others substances of very high concern(SVHC) <sup>5</sup>		<0.01	

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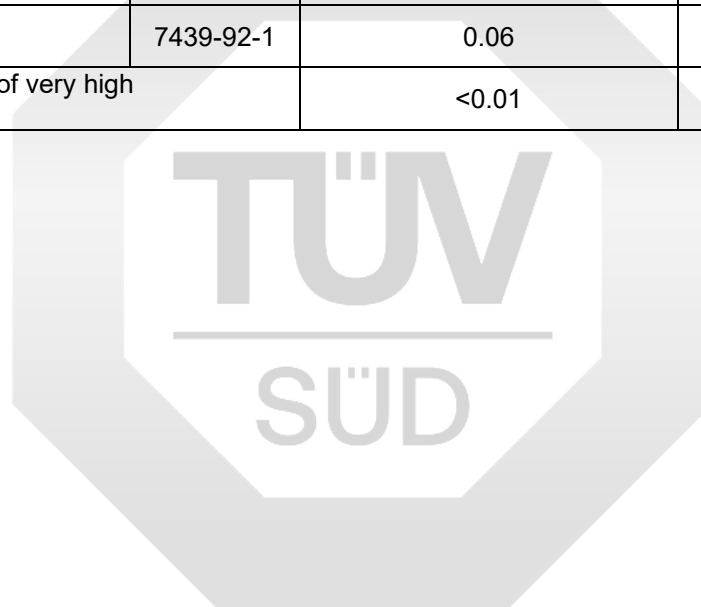
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Group 3

Sample No	Description	Photograph
12	Silvery metal bus bar	

Test Item(s)	CAS No.	Result(s) (%)	Classification
		12	
Lead	7439-92-1	0.06	Toxic for reproduction (Article 57c)
Others substances of very high concern(SVHC) <sup>5</sup>		<0.01	



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Group 4

Sample No	Description	Photograph
05	White glue	

Test Item(s)	CAS No.	Result(s) (%)	Classification
		05	
Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.04	PBT (Article 57d); vPvB (Article 57e)
Others substances of very high concern(SVHC) <sup>5</sup>		<0.01	



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Group 6

Sample No	Description	Photograph
08	Blue solar cell sheet	

Test Item(s)	CAS No.	Result(s) (%)	Classification
		08	
Fatty acids, C16-18, lead salts**	91031-62-8	0.02	Toxic for reproduction (Article 57 c)
Lead dipicrate**	6477-64-1	0.02	Toxic for reproduction (article 57 c)
Lead styphnate**	15245-44-0	0.02	Toxic for reproduction (article 57 c)
Lead(II) bis(methanesulfonate)**	17570-76-2	0.01	Toxic for reproduction (Article 57 c)
Dioxobis(stearato)trilead**	12578-12-0	0.01	Toxic for reproduction (Article 57 c)
Lead dinitrate**	10099-74-8	0.01	Toxic for reproduction (Article 57 c)
Tetraethyllead**	78-00-2	0.01	Toxic for reproduction (Article 57 c)
Lead di(acetate)**	301-04-2	0.01	Toxic for reproduction (Article 57 c)
Lead diazide, Lead azide**	13424-46-9	0.01	Toxic for reproduction (article 57 c)
Others substances of very high concern(SVHC) <sup>5</sup>		<0.01	

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Group 9

Sample No	Description	Photograph
21	Dark grey plastic sealing ring	

Test Item(s)	CAS No.	Result(s) (%)	Classification
		21	
Decamethylcyclopentasiloxane (D5)	541-02-6	0.01	PBT (Article 57d); vPvB (Article 57e)
Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.06	PBT (Article 57d); vPvB (Article 57e)
Others substances of very high concern(SVHC) <sup>5</sup>		<0.01	

Remark:

1. Detection limit = 0.01%
2. "<" denoted less than
3. ">" denoted greater than
4. "--" denoted no judgement
5. Refer to the next pages for detailed list of SVHCs.
6. \*\* Denotes result is based on the heavy metal or inorganic element concentration. 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.

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**4. 250 Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) based on regulation (EC) No 1907/2006 (REACH)**

No.	Tested Items	Classification
1.	Anthracene (CAS No. 120-12-7)	PBT (article 57d)
2.	4,4'- Diaminodiphenylmethane (CAS No. 101-77-9)	Carcinogenic (article 57a)
3.	Cobalt dichloride** (CAS No. 7646-79-9)	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
4.	Diarsenic pentaoxide** (CAS No. 1303-28-2)	Carcinogenic (article 57a)
5.	Diarsenic trioxide** (CAS No. 1327-53-3)	Carcinogenic (article 57a)
6.	Lead hydrogen arsenate** (CAS No. 7784-40-9)	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
7.	Triethyl arsenate** (CAS No. 15606-95-8)	Carcinogenic (article 57a)
8.	5-tert-butyl-2,4,6-trinitro-m-xylene (CAS No. 81-15-2)	vPvB (article 57e)
9.	Dis (2-ethylhexyl) phthalate (CAS No. 117-81-7)	Toxic for reproduction (article 57c) Endocrine disrupting properties (Article 57(f) - human health)
10.	Dibutyl phthalate (CAS No. 84-74-2)	Toxic for reproduction (article 57c) Endocrine disrupting properties (Article 57(f) - human health)
11.	Hexabromocyclododecane (CAS No. 25637-99-4)	PBT (article 57d)
12.	Alkanes, C10-13, chloro (CAS No. 85535-84-8)	PBT and vPvB (articles 57 d and 57 e)
13.	Benzyl butyl phthalate (CAS No. 85-68-7)	Toxic for reproduction (article 57c) Endocrine disrupting properties (Article 57(f) - human health)
14.	Bis(tributyltin)oxide (CAS No. 56-35-9)	PBT (article 57d)
15.	Sodium dichromate** (CAS No. 7789-12-0)	Carcinogenic, mutagenic and toxic for reproduction (articles 57a, 57b and 57c)
16.	Anthracene oil### (CAS No. 90640-80-5)	Carcinogenic1, PBT and vPvB (articles 57a, 57d and 57e)
17.	Anthracene oil, anthracene paste; distn. Lights### (CAS No. 91995-17-4)	PBT & vPvB, Carcinogen category 2, Mutagen category 2
18.	Anthracene oil, anthracene paste, anthracene fraction### (CAS No. 91995-15-2)	Carcinogenic2, mutagenic3, PBT and vPvB (articles 57a, 57b, 57d and 57e)

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No.	Tested Items	Classification
19.	Anthracene oil, anthracene-low <sup>##</sup> (CAS No. 90640-82-7)	Carcinogenic <sup>2</sup> , mutagenic <sup>3</sup> , PBT and vPvB (articles 57a, 57b, 57d and 57e)
20.	Anthracene oil, anthracene paste <sup>##</sup> (CAS No. 90640-81-6)	Carcinogenic <sup>2</sup> , mutagenic <sup>3</sup> , PBT and vPvB (articles 57a, 57b, 57d and 57e)
21.	Coal tar pitch, high temperature (CAS No. 65996-93-2) <sup>##</sup>	Carcinogenic, PBT and vPvB (articles 57a, 57d and 57e)
22.	2,4-Dinitrotoluene (CAS No. 121-14-2)	Carcinogenic (article 57a)
23.	Diisobutyl phthalate (CAS No. 84-69-5)	Toxic for reproduction (article 57c) Endocrine disrupting properties (Article 57(f) - human health)
24.	Lead chromate <sup>**</sup> (CAS No. 7758-97-6)	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
25.	Lead chromate molybdate sulfate red (C.I. Pigment Red 104) <sup>**</sup> (CAS No. 12656-85-8)	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
26.	Lead sulfochromate yellow (C.I. Pigment Yellow 34) <sup>**</sup> (CAS No. 1344-37-2)	Carcinogenic and toxic for reproduction (articles 57 a and 57 c))
27.	Tris(2-chloroethyl)phosphate (CAS No. 115-96-8)	Toxic for reproduction (article 57c)
28.	Acrylamide (CAS No. 79-06-01)	Carcinogenic (article 57 a)
29.	Boric acid <sup>**</sup> (CAS No. 10043-35-3)	Toxic for reproduction (article 57 c)
30.	Disodium tetraborate, anhydrous <sup>**</sup> (CAS No. 1330-43-4)	Toxic to Reproduction category 2
31.	Teraboron disodium heptaoxide,hydrate <sup>**</sup> (CAS No. 12267-73-1)	Toxic to Reproduction category 2
32.	Sodium Chromate <sup>**</sup> (CAS No. 7775-11-3)	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)
33.	Potassium Chromate <sup>**</sup> (CAS No. 7789-00-6)	Carcinogenic and mutagenic (articles 57 a and 57 b).
34.	Ammonium dichromate <sup>**</sup> (CAS No. 7789-09-5)	Carcinogen Category <sup>2</sup> ; Mutagen Category <sup>2</sup> ; Toxic to Reproduction Category <sup>2</sup>
35.	Potassium dichromate <sup>**</sup> (CAS No. 7778-50-9)	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)
36.	Trichloroethylene (CAS No. 79-01-6)	Carcinogenic (article 57 a)

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No.	Tested Items	Classification
37.	Cobalt(II) sulphate** (CAS No. 10124-43-3)	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
38.	Cobalt(II) dinitrate** (CAS No. 10141-05-6)	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
39.	Cobalt(II) carbonate** (CAS No. 513-79-1)	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
40.	Cobalt(II) diacetate** (CAS No. 71-48-7)	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
41.	2-Methoxyethanol (CAS No. 109-86-4)	Toxic for reproduction (article 57c)
42.	2-Ethoxyethanol (CAS No. 110-80-5)	Toxic for reproduction (article 57c)
43.	Chromium trioxide** (CAS No. 1333-82-0)	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
44.	Acids generated from chromium trioxide and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid**	Carcinogenic (article 57a)
45.	2-Ethoxyethyl acetate (2-EEA) (CAS No. 111-15-9)	Toxic for reproduction (article 57c)
46.	Strontium chromate** (CAS No. 7789-06-2)	Carcinogenic (article 57a)
47.	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) (CAS No. 68515-42-4)	Toxic for reproduction (article 57c)
48.	Hydrazine (CAS No. 302-01-2, 7803-57-8)	Carcinogenic (article 57a)
49.	Methyl-2-pyrrolidone (CAS No. 872-50-4)	Toxic for reproduction (article 57c)
50.	1,2,3-Trichloropropane (CAS No. 96-18-4)	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) (CAS No. 71888-89-6)	Toxic for reproduction (article 57c)
52.	Zirconia Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in	Carcinogenic (article 57 a)

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No.	Tested Items	Classification
	Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm). c) alkaline oxide and alkali earth oxide (Na <sub>2</sub> O+K <sub>2</sub> O+CaO+MgO+BaO) content less or equal to 18% by weight **	
53.	Calcium arsenate** (CAS No. 7778-44-1)	Carcinogenic (article 57 a)
54.	Bis(2-methoxyethyl) ether (CAS No. 111-96-6)	Toxic for reproduction (article 57 c)
55.	Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm) c) alkaline oxide and alkali earth oxide (Na <sub>2</sub> O+K <sub>2</sub> O+CaO+MgO+BaO) content less or equal to 18% by weight **	Carcinogenic (article 57 a)
56.	Potassium hydroxyoctaoxodizincatedichromate** (CAS No. 11103-86-9)	Carcinogenic (article 57 a)
57.	Lead dipicrate** (CAS No. 6477-64-1)	Toxic for reproduction (article 57 c)
58.	N,N-dimethylacetamide (CAS No. 127-19-5)	Toxic for reproduction (article 57 c)
59.	Arsenic acid** (CAS No. 7778-39-4)	Carcinogenic (article 57 a)

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No.	Tested Items	Classification
60.	2-Methoxyaniline; o-Anisidine (CAS No. 90-04-0)	Carcinogenic (article 57 a)
61.	Trilead diarsenate** (CAS No. 3687-31-8)	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
62.	1,2-dichloroethane (CAS No. 107-06-2)	Carcinogenic (article 57 a)
63.	Pentazinc chromate octahydroxide** (CAS No. 49663-84-5)	Carcinogenic (article 57 a)
64.	Formaldehyde, oligomeric reaction products with aniline (CAS No. 25214-70-4)	Carcinogenic (article 57 a)
65.	Bis(2-methoxyethyl) phthalate (CAS No. 117-82-8)	Toxic for reproduction (article 57 c)
66.	4-(1,1,3,3-tetramethylbutyl)phenol (CAS No. 140-66-9)	Equivalent level of concern having probable serious effects to the environment (article 57 f)
67.	Lead diazide, Lead azide** (CAS No. 13424-46-9)	Toxic for reproduction (article 57 c),
68.	Phenolphthalein (CAS No. 77-09-8)	Carcinogenic (article 57 a)
69.	Dichromium tris(chromate) (CAS No. 24613-89-6)**	Carcinogenic (article 57 a)
70.	Lead styphnate** (CAS No. 15245-44-0)	Toxic for reproduction (article 57 c)
71.	2,2'-dichloro-4,4'-methylenedianiline (CAS No. 101-14-4)	Carcinogenic (article 57 a)
72.	$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)# (CAS No. 6786-83-0)	Carcinogenic (Article 57a)
73.	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (CAS No. 101-61-1)	Carcinogenic (Article 57a)
74.	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5- triazine-2,4,6-(1H,3H,5H)-trione ( $\beta$ -TGIC) (CAS No. 59653-74-6)	Mutagenic (Article 57b)
75.	Diboron trioxide** (CAS No. 1303-86-2)	Toxic for reproduction (Article 57 c)
76.	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) (CAS No. 112-49-2)	Toxic for reproduction (Article 57 c)
77.	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol# (CAS No. 561-41-1)	Carcinogenic (Article 57a)
78.	Lead(II) bis(methanesulfonate)**	Toxic for reproduction (Article 57 c)

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No.	Tested Items	Classification
	(CAS No. 17570-76-2)	
79.	Formamide (CAS No. 75-12-7)	Toxic for reproduction (Article 57 c)
80.	4-[4,4'-bis(dimethylamino)benzhydrylidene] cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride(C.I. Basic Violet 3) <sup>#</sup> (CAS No. 548-62-9)	Carcinogenic (Article 57a)
81.	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) (CAS No. 110-71-4)	Toxic for reproduction (Article 57 c)
82.	[4-[[4-anilino-1-naphthyl][4-(dimethylamino) phenyl]methylene]cyclohexa-2,5-dien-1- ylidene]dimethylammonium chloride (C.I. Basic Blue 26) <sup>#</sup> (CAS No. 2580-56-5)	Carcinogenic (Article 57a)
83.	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6- trione (TGIC) (CAS No. 2451-62-9)	Mutagenic (Article 57b)
84.	4,4'-bis(dimethylamino)benzophenone (Michler's ketone) (CAS No. 90-94-8)	Carcinogenic (Article 57a)
85.	Pyrochlore, antimony lead yellow** (CAS No. 8012-00-8)	Toxic for reproduction (Article 57 c)
86.	6-methoxy-m-toluidine (p-cresidine) (CAS No. 120-71-8)	Carcinogenic (Article 57a)
87.	Henicosfluoroundecanoic acid (CAS No. 2058-94-8)	vPvB (Article 57 e)
88.	Hexahydromethylphthalic anhydride [1], Hexahydro- 4-methylphthalic anhydride [2], Hexahydro-1- methylphthalic anhydride [3], Hexahydro-3- methylphthalic anhydride [4] [The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry] (CAS No. 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9)	Equivalent level of concern having probable serious effects to human health (Article 57 f)
89.	Cyclohexane-1,2-dicarboxylic anhydride [1], cis- cyclohexane-1,2-dicarboxylic anhydride [2], trans- cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans- isomers [1] are covered by this entry] (CAS No. 85-42-7, 13149-00-3, 14166-21-3)	Equivalent level of concern having probable serious effects to human health (Article 57 f)
90.	Dibutyltin dichloride (DBTC) (CAS No. 683-18-1)	Toxic for reproduction (Article 57 c)
91.	Lead bis(tetrafluoroborate)** (CAS No. 13814-96-5)	Toxic for reproduction (Article 57 c)
92.	Lead dinitrate** (CAS No. 10099-74-8)	Toxic for reproduction (Article 57 c)

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No.	Tested Items	Classification
93.	Silicic acid, lead salt** (CAS No. 11120-22-2)	Toxic for reproduction (Article 57 c)
94.	4-Aminoazobenzene (CAS No. 60-09-3)	Carcinogenic (Article 57a)
95.	Lead titanium zirconium oxide** (CAS No. 12626-81-2)	Toxic for reproduction (Article 57 c)
96.	Lead monoxide (lead oxide)** (CAS No. 1317-36-8)	Toxic for reproduction (Article 57 c)
97.	o-Toluidine (CAS No. 95-53-4)	Carcinogenic (Article 57a)
98.	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine (CAS No. 143860-04-2)	Toxic for reproduction (Article 57 c)
99.	Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-doped [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]** (CAS No. 68784-75-8)	Toxic for reproduction (Article 57 c)
100.	Trilead bis(carbonate)dihydroxide** (CAS No. 1319-46-6)	Toxic for reproduction (Article 57 c)
101.	Furan (CAS No. 110-00-9)	Carcinogenic (Article 57a)
102.	N,N-dimethylformamide (CAS No. 68-12-2)	Toxic for reproduction (Article 57 c)
103.	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	Equivalent level of concern having probable serious effects to the environment (Article 57 f)
104.	4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	Equivalent level of concern having probable serious effects to the environment (Article 57 f)
105.	4,4'-methylenedi-o-toluidine (CAS No. 838-88-0)	Carcinogenic (Article 57a)
106.	Diethyl sulphate (CAS No. 64-67-5)	Carcinogenic (Article 57a); Mutagenic (Article 57b)
107.	Dimethyl sulphate (CAS No. 77-78-1)	Carcinogenic (Article 57a)
108.	Lead oxide sulfate** (CAS No. 12036-76-9)	Toxic for reproduction (Article 57 c)
109.	Lead titanium trioxide** (CAS No. 12060-00-3)	Toxic for reproduction (Article 57 c)
110.	Acetic acid, lead salt, basic** (CAS No. 51404-69-4)	Toxic for reproduction (Article 57 c)
111.	[Phthalato(2-)]dioxotrilead** (CAS No. 69011-06-9)	Toxic for reproduction (Article 57 c)

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No.	Tested Items	Classification
112.	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE) (CAS No. 1163-19-5)	PBT (Article 57 d); vPvB (Article 57 e)
113.	N-methylacetamide (CAS No. 79-16-3)	Toxic for reproduction (Article 57 c)
114.	Dinoseb (6-sec-butyl-2,4-dinitrophenol) (CAS No. 88-85-7)	Toxic for reproduction (Article 57 c)
115.	1,2-Diethoxyethane (CAS No. 629-14-1)	Toxic for reproduction (Article 57 c)
116.	Tetralead trioxide sulphate** (CAS No. 12202-17-4)	Toxic for reproduction (Article 57 c)
117.	N-pentyl-isopentylphthalate (CAS No. 776297-69-9)	Toxic for reproduction (Article 57 c)
118.	Dioxobis(stearato)trilead** (CAS No. 12578-12-0)	Toxic for reproduction (Article 57 c)
119.	Tetraethyllead** (CAS No. 78-00-2)	Toxic for reproduction (Article 57 c)
120.	Pentalead tetraoxide sulphate** (CAS No. 12065-90-6)	Toxic for reproduction (Article 57 c)
121.	Pentacosafuorotridecanoic acid (CAS No. 72629-94-8)	vPvB (Article 57 e)
122.	Tricosafuorododecanoic acid (CAS No. 307-55-1)	vPvB (Article 57 e)
123.	Heptacosafuorotetradecanoic acid (CAS No. 376-06-7)	vPvB (Article 57 e)
124.	1-bromopropane (n-propyl bromide) (CAS No. 106-94-5)	Toxic for reproduction (Article 57 c)
125.	Methoxyacetic acid (CAS No. 625-45-6)	Toxic for reproduction (Article 57 c)
126.	4-methyl-m-phenylenediamine (toluene-2,4-diamine) (CAS No. 95-80-7)	Carcinogenic (Article 57a)
127.	Methyloxirane (Propylene oxide) (CAS No. 75-56-9)	Carcinogenic (Article 57a); Mutagenic (Article 57b)
128.	Trilead dioxide phosphonate** (CAS No. 12141-20-7)	Toxic for reproduction (Article 57 c)
129.	o-aminoazotoluene (CAS No. 97-56-3)	Carcinogenic (Article 57a)
130.	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (CAS No. 84777-06-0)	Toxic for reproduction (Article 57 c)
131.	4,4'-oxydianiline and its salts (CAS No. 101-80-4)	Carcinogenic (Article 57a); Mutagenic (Article 57b)
132.	Orange lead (lead tetroxide)** (CAS No. 1314-41-6)	Toxic for reproduction (Article 57 c)
133.	Biphenyl-4-ylamine (CAS No. 92-67-1)	Carcinogenic (Article 57a)
134.	Diisopentylphthalate (CAS No. 605-50-5)	Toxic for reproduction (Article 57 c)

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No.	Tested Items	Classification
135.	Fatty acids, C16-18, lead salts** (CAS No. 91031-62-8)	Toxic for reproduction (Article 57 c)
136.	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (CAS No. 123-77-3)	Equivalent level of concern having probable serious effects to human health (Article 57 f)
137.	Sulfurous acid, lead salt, dibasic** (CAS No. 62229-08-7)	Toxic for reproduction (Article 57 c)
138.	Lead cyanamidate** (CAS No. 20837-86-9)	Toxic for reproduction (Article 57 c)
139.	Cadmium (CAS No. 7440-43-9)	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
140.	Ammonium pentadecafluorooctanoate (APFO) (CAS No. 3825-26-1)	Toxic for reproduction (Article 57 c); PBT (Article 57 d)
141.	Pentadecafluorooctanoic acid (PFOA) (CAS No. 335-67-1)	Toxic for reproduction (Article 57 c); PBT (Article 57 d)
142.	Dipentyl phthalate (DPP) (CAS No. 131-18-0)	Toxic for reproduction (Article 57 c);
143.	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	Equivalent level of concern having probable serious effects to the environment (Article 57 f)
144.	Cadmium oxide** (CAS No. 1306-19-0)	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
145.	Cadmium sulphide** (CAS No. 1306-23-6)	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
146.	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) (CAS No. 1937-37-7)	Carcinogenic (Article 57a)
147.	Dihexyl phthalate (CAS No. 84-75-3)	Toxic for reproduction (Article 57 c)

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No.	Tested Items	Classification
148.	Imidazolidine-2-thione; (2-imidazoline-2-thiol) (CAS No. 96-45-7)	Toxic for reproduction (Article 57 c)
149.	Trixylyl phosphate (CAS No. 25155-23-1)	Toxic for reproduction (Article 57 c)
150.	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28) (CAS No. 573-58-0)	Carcinogenic (Article 57a)
151.	Lead di(acetate)** (CAS No. 301-04-2)	Toxic for reproduction (Article 57 c);
152.	Cadmium chloride (CAS No. 10108-64-2)	Carcinogenic (Article 57a); Mutagenic (Article 57b); Toxic for reproduction (Article 57c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
153.	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (CAS No. 68515-50-4)	Toxic for reproduction (Article 57 c)
154.	Sodium peroxometaborate** (CAS No. 7632-04-4)	Toxic for reproduction (Article 57 c)
155.	Sodium perborate; perboric acid, Sodium salt**	Toxic for reproduction (Article 57 c)
156.	Cadmium fluoride** (CAS No. 7790-79-6)	Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for Reproduction (Article 57 c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
157.	Cadmium sulphate** (CAS No. 10124-36-4;31119-53-6)	Carcinogenic (Article 57 a); Mutagenic (article 57 b); Toxic for Reproduction (Article 57 c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
158.	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) (CAS No. 3846-71-7)	PBT (Article 57 d); vPvB (Article 57 e)
159.	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol(UV-328) (CAS No. 25973-55-1)	PBT (Article 57 d); vPvB

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No.	Tested Items	Classification
		(Article 57 e)
160.	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) (CAS No. 15571-58-1)	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)	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 $\geq 0.3\%$ of dihexyl phthalate (CAS No. 68515-51-5, 68648-93-1)	Toxic for Reproduction (Article 57 c)
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 isomers of [1] and [2] or any combination thereof]	vPvB (Article 57 e)
164.	Perfluorononan-1-oic-acid and its sodium and ammonium salts (CAS No. 375-95-1, 21049-39-8, 4149-60-4)	Toxic for reproduction (Article 57 c) PBT (Article 57 d)
165.	Nitrobenzene (CAS No. 98-95-3)	Toxic for reproduction (Article 57 c)
166.	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) (CAS No. 36437-37-3)	vPvB (Article 57 e)
167.	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) (CAS No. 3864-99-1)	vPvB (Article 57 e)
168.	1,3-propanesultone (CAS No. 1120-71-4)	Carcinogenic (Article 57 a)
169.	Benzo[def]chrysene (Benzo[a]pyrene) (CAS No. 50-32-8)	Carcinogenic (Article 57 a) Mutagenic (Article 57 b) Toxic for reproduction (Article 57 c); PBT (Article 57 d) vPvB (Article 57 e)
170.	4,4'-isopropylidenediphenol (Bisphenol A, BPA) (CAS No. 80-05-7)	Toxic for reproduction (Article 57 c) Endocrine disrupting properties (Article 57(f) - human health)
171.	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts (CAS No. 335-76-2, 3830-45-3, 3108-42-7)	Toxic for reproduction (Article 57 c); PBT (Article 57 d)
172.	p-(1,1-dimethylpropyl)phenol (pentylphenol, PTAP) (CAS No. 80-46-6)	Equivalent level of concern having probable serious effects to the environment (Article 57 f)

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No.	Tested Items	Classification
173.	4-Heptylphenol, branched and linear[substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB-and well-defined substances which include any of the individual isomers or a combination thereof]	Equivalent level of concern having probable serious effects to the environment (Article 57 f)
174.	Perfluorohexane-1-sulphonic acid and its salts (PFHxS) (CAS No. 355-46-4)	vPvB (Article 57 e)
175.	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 (4-HPbl)]	Endocrine disrupting properties (Article 57(f) - environment)
176.	Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™)(covering any of its individual anti- and syn-isomers or any combination thereof)	vPvB (Article 57e)
177.	Chrysene (CAS No. 218-01-9, 1719-03-5)	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)
178.	Cadmium nitrate (CAS No. 10022-68-1, 10325-94-7)	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
179.	Cadmium hydroxide (CAS No. 21041-95-2)	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
180.	Cadmium carbonate (CAS No. 513-78-0)	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
181.	Benz[a]anthracene (CAS No. 56-55-3, 1718-53-2)	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)
182.	Octamethylcyclotetrasiloxane (D4) (CAS No. 556-67-2)	PBT (Article 57d); vPvB (Article 57e)
183.	Decamethylcyclopentasiloxane (D5) (CAS No. 541-02-6)	PBT (Article 57d); vPvB (Article 57e)
184.	Dodecamethylcyclohexasiloxane (D6) (CAS No. 540-97-6)	PBT (Article 57d); vPvB (Article 57e)
185.	Lead (CAS No. 7439-92-1)	Toxic for reproduction (Article 57c)
186.	Disodium octaborate (CAS No. 12008-41-2)	Toxic for reproduction (Article 57c)
187.	Benzo[ghi]perylene (CAS No. 191-24-2)	PBT (Article 57d); vPvB (Article 57e)

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No.	Tested Items	Classification
188.	Terphenyl hydrogenated (CAS No. 61788-32-7)	vPvB (Article 57e)
189.	Ethylenediamine (EDA) (CAS No. 107-15-3)	Respiratory sensitising properties (Article 57(f) - human health)
190.	Dicyclohexyl phthalate (DCHP) (CAS No. 84-61-7)	Toxic for reproduction (Article 57(c)); endocrine disrupting properties (Article 57(f) - human health)
191.	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride) (TMA) (CAS No. 552-30-7)	Respiratory sensitising properties (Article 57(f)) – human health)
192.	1,7,7-trimethyl-3- (phenylmethylene)bicyclo[2.2.1]heptan-2-one (3- benzylidene camphor) (CAS No. 15087-24-8)	Endocrine disrupting properties (Article 57(f) - environment)
193.	2,2-bis(4'-hydroxyphenyl)-4-methylpentane (CAS No. 6807-17-6)	Toxic for reproduction (Article 57c)
194.	Benzo[k]fluoranthene (CAS No. 207-08-9)	Carcinogenic (Article 57a); PBT (Article 57d); vPvB (Article 57e)
195.	Fluoranthene (CAS No. 206-44-0)	PBT (Article 57d); vPvB (Article 57e)
196.	Phenanthrene (CAS No. 85-01-8)	vPvB (Article 57e)
197.	Pyrene (CAS No. 129-00-0)	PBT (Article 57d); vPvB (Article 57e)
198.	2-methoxyethyl acetate (CAS No. 110-49-6)	Toxic for reproduction (Article 57 (c))
199.	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	Endocrine disrupting properties (Article 57(f) – environment)
200.	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment)  Equivalent level of concern having probable serious effects to human health (Article 57(f) – human health)
201.	4-tert-butylphenol (CAS No. 98-54-4)	Endocrine disrupting properties (Article 57(f) – environment)
202.	Diisohexyl phthalate (CAS No. 71850-09-4)	Toxic for reproduction (Article 57c)
203.	2-benzyl-2-dimethylamino-4'- morpholinobutyrophenone	Toxic for reproduction (Article 57c)

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No.	Tested Items	Classification
	(CAS No. 119313-12-1)	
204.	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one (CAS No. 71868-10-5)	Toxic for reproduction (Article 57c)
205.	Perfluorobutane sulfonic acid (PFBS) and its salts	Equivalent level of concern having probable serious effects on the environment (Article 57f) Equivalent level of concern having probable serious effects on human health (Article 57f)
206.	1-vinylimidazole (CAS No. 1072-63-5)	Toxic for reproduction (Article 57 (c))
207.	2-methylimidazole (CAS No. 693-98-1)	Toxic for reproduction (Article 57 (c))
208.	Dibutylbis(pentane-2,4-dionato-O,O')tin (CAS No. 22673-19-4)	Toxic for reproduction (Article 57 (c))
209.	Butyl 4-hydroxybenzoate (Butylparaben) (CAS No. 94-26-8)	Endocrine disrupting properties - human health (Article 57(f) – human health)
210.	Bis(2-(2-methoxyethoxy) ethyl) ether (CAS No. 143-24-8)	Toxic for reproduction (Article 57c)
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	Toxic for reproduction (Article 57c)
212.	1,4-dioxane (CAS No. 123-91-1)	Carcinogenic (Article 57a) Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health) Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment)
213.	2,2-bis(bromomethyl)propane 1,3-diol (BMP) (CAS No. 3296-90-0) 2,2-dimethylpropan-1-ol, tribromoderivative 3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA) (CAS No. 36483-57-5, 1522-92-5) 2,3-dibromo-1propanol (2,3-DBPA) (CAS No. 96-13-9)	Carcinogenic (Article 57a)
214.	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	Toxic for reproduction (Article 57c)
215.	4,4'-(1-methylpropylidene)bisphenol (bisphenol B) (CAS No. 77-40-7)	Endocrine disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57(f) - human health)

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No.	Tested Items	Classification
216.	Glutaral (CAS No. 111-30-8)	Respiratory sensitising properties (Article 57(f) - human health)
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]	PBT (Article 57d) vPvB (Article 57e)
218.	Orthoboric acid, sodium salt (CAS No. 13840-56-7)	Toxic for reproduction (Article 57c)
219.	Phenol, alkylation products (mainly in paraposition) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57(f) - human health)
220.	tris(2-methoxyethoxy)vinylsilane (CAS No. 1067-53-4)	Toxic for reproduction (Article 57c)
221.	S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate (CAS No. 255881-94-8)	PBT (Article 57d)
222.	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (CAS No. 119-47-1)	Toxic for reproduction (Article 57c)
223.	(±)-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)	Endocrine disrupting properties (Article 57(f) - human health)
224.	N-(hydroxymethyl)acrylamide (CAS No. 924-42-5)	Carcinogenic (Article 57a) Mutagenic (Article 57b)
225.	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene] (CAS No. 37853-59-1)	vPvB (Article 57e)
226.	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol (CAS No. 79-94-7)	Carcinogenic (Article 57a)
227.	4,4'-sulphonyldiphenol (CAS No. 80-09-1)	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57(f) - human health)
228.	Barium diboron tetraoxide (CAS No. 13701-59-2)	Toxic for reproduction (Article 57c)

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No.	Tested Items	Classification
229.	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	vPvB (Article 57e)
230.	Isobutyl 4-hydroxybenzoate (CAS No. 4247-02-3)	Endocrine disrupting properties (Article 57(f) - human health)
231.	Melamine (CAS No. 108-78-1)	Endocrine disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57(f) - human health)
232.	Perfluoroheptanoic acid and its salts	Toxic for reproduction (Article 57c) PBT (Article 57d) vPvB (Article 57e) Endocrine disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57(f) - human health)
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	vPvB (Article 57e)
234.	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (CAS No. 75980-60-8)	Toxic for reproduction (Article 57c)
235.	Bis(4-chlorophenyl) sulphone (CAS No. 80-07-9)	vPvB (Article 57e)
236.	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	vPvB (Article 57e)
237.	Bumetizole (UV-326) (CAS No.: 3896-11-5)	vPvB (Article 57e)
238.	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one (CAS No.: 119344-86-4)	Toxic for reproduction (Article 57c)
239.	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329) (CAS No.: 3147-75-9)	vPvB (Article 57e)
240.	2,4,6-tri-tert-butylphenol (CAS No.: 732-26-3)	Toxic for reproduction (Article 57c) PBT (Article 57d)
241.	Bis(α,α-dimethylbenzyl) peroxide (CAS No.: 80-43-3)	Toxic for reproduction (Article 57c)

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No.	Tested Items	Classification
242.	Triphenyl phosphate (CAS No.: 115-86-6)	Endocrine disrupting properties (Article 57(f) - environment)
243.	Octamethyltrisiloxane (CAS No.: 107-51-7)	vPvB (Article 57e)
244.	O,O,O-triphenyl phosphorothioate (CAS No.: 597-82-0)	PBT (Article 57d)
245.	Perfluamine (CAS No.: 338-83-0)	vPvB (Article 57e)
246.	6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxypyrrolidin-1-yl]hexanoic acid (CAS No.: 2156592-54-8)	Toxic for reproduction (Article 57c)
247.	Reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives (CAS No.: 192268-65-8)	PBT (Article 57d)
248.	1,1,1,3,5,5,5-heptamethyl-3-[[trimethylsilyl]oxy]trisiloxane (CAS No.: 17928-28-8)	vPvB (Article 57e)
249.	Decamethyltetrasiloxane (CAS No.: 141-62-8)	vPvB (Article 57e)
250.	Tetra(sodium/potassium) 7-[(E)-{2-acetamido-4-[(E)-(4-[[4-chloro-6-({2-[(4-fluoro-6-[[4-(vinylsulfonyl)phenyl]amino)-1,3,5-triazine-2-yl]amino]propyl]amino)-1,3,5-triazine-2-yl]amino}-5-sulfonato-1-naphthyl]diazanyl]-5-methoxyphenyl]diazanyl]-1,3,6-naphthalenetrisulfonate; Reactive Brown 51	Toxic for reproduction (Article 57c)

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**Remark:**

1. Above result for the submitted samples are calculated based on relevant material testing data.
2. \*\* Denotes result is based on the heavy metal or inorganic element concentration. 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 it main constituents. Individual concentrations to the constituent of UVCB with an amount of <0.01% were not considered by the calculation of the sum.
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. The analysis of 250 SVHC is done by currently available test & screening techniques against the SVHC candidate list published by European Chemical Agency (ECHA). Refer to <https://echa.europa.eu/candidate-list-table> for details.
6. 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).
7. 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.

**TÜV SÜD Certification and Testing (China) Co., Ltd.**

**Prepared by:**

**Mr. Jialong HAN**

**Checked by:**

**Mr. Feng ZHANG**

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## APPENDIX I

Classification	Definition under 67/548/EEC and Regulation (EC) No 1907/2006
Carcinogen category 1	Substances known to be carcinogenic to humans. There is sufficient evidence to establish a causal association between human exposure to the substance and the development of cancer.
Carcinogenic	Substances that should be regarded as if they are carcinogenic to humans, there is sufficient evidence, based on long-term animal studies and other relevant information, to provide a strong presumption that human exposure may result in the development of cancer.
Mutagen category 1	Substances known to be mutagenic to humans, There is sufficient evidence to establish a causal association between human exposure to a substance and heritable genetic damage.
Mutagen category 2	Substances which should be regarded as if they are mutagenic to man. There is sufficient evidence to provided a strong presumption that human exposure to the substance may result in the development of heritable genetic damage, generally on the basis of : -appropriate animal studies, -other relevant information.
Toxic for reproduction category 1:	Substances known to impair fertility in humans. There is sufficient evidence to establish a causal relationship between human exposure to the substance and impaired fertility.  Substances known to cause developmental toxicity in humans. There is sufficient evidence to establish a causal relationship between human exposure to the substance and subsequent developmental toxic effects in the progeny
Toxic for reproduction category 2:	Substances which should be regarded as if they impair fertility in humans. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in impaired fertility on the basis of :  -clear evidence in animal studies of impaired fertility in the absence of toxic effects, or, evidence of impaired fertility occurring at around the same dose levels as other toxic effects but which is not a secondary nonspecific consequence of the other .  -other relevant information. Substances which should be regarded as if they cause developmental toxicity to humans. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in developmental toxicity, generally on the basis of :  -clear results in appropriate animal studies where effects have been observed in the absence of signs of marked maternal toxicity, or at around the same dose levels as other toxic effects but which are not a secondary non-specific consequence of the other toxic effects. -other relevant information.
PBT & vPvB	Substances which are persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative(vPvB) pose a particular challenge to the chemicals safety management. For these substances a "safe" concentration in the environment cannot be established with sufficient reliability.

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APPENDIX II: Product Model

Product: PV Modules	Test model: DM445M10RT-B54HSW
<p>Additional model: DMxxxM10T-78HBB,DMxxxM10T-78HSW,DMxxxM10T-78HBW,DMxxxM10T-72HBB, DMxxxM10T-72HSW,DMxxxM10T-72HBW,DMxxxM10T-66HBB,DMxxxM10T-66HSW, DMxxxM10T-66HBW,DMxxxM10T-60HBB,DMxxxM10T-60HSW,DMxxxM10T-60HBW, DMxxxM10T-54HBB,DMxxxM10T-54HSW,DMxxxM10T-54HBW, DMxxxM10RT-72HSW,DMxxxM10RT-72HBW,DMxxxM10RT-72HBB, DMxxxM10RT-60HBB,DMxxxM10RT-60HSW,DMxxxM10RT-60HBW, DMxxxM10RT-54HBB,DMxxxM10RT-54HSW,DMxxxM10RT-54HBW, DMxxxM10RT-54HBB-L,DMxxxM10RT-54HSW-L, DMxxxM10RT-54HBW-L, DMxxxM10RT-30HSW-L, DMxxxM10RT-30HBW-L, DMxxxM10RT-30HBB-L DMxxxG12RT-66HSW,DMxxxG12RT-66HBW,DMxxxG12RT-66HBB, DMxxxG12RT-54HSW,DMxxxG12RT-54HBW,DMxxxG12RT-54HBB, DMxxxG12RT-48HSW,DMxxxG12RT-48HBW,DMxxxG12RT-48HBB, DMxxxM10T-78HBB-V,DMxxxM10T-78HSW-V,DMxxxM10T-78HBW-V, DMxxxM10T-72HBB-V,DMxxxM10T-72HSW,DMxxxM10T-72HBW-V, DMxxxM10T-66HBB-V,DMxxxM10T-66HSW-V,DMxxxM10T-66HBW-V, DMxxxM10T-60HBB-V,DMxxxM10T-60HSW-V,DMxxxM10T-60HBW-V. DMxxxM10T-54HBB-V,DMxxxM10T-54HSW-V,DMxxxM10T-54HBW-V, DMxxxM10RT-72HBB-V,DMxxxM10RT-72HSW-V,DMxxxM10RT-72HBW-V, DMxxxM10RT-60HBB-V,DMxxxM10RT-60HSW-V,DMxxxM10RT-60HBW-V, DMxxxM10RT-54HBB-V,DMxxxM10RT-54HSW-V,DMxxxM10RT-54HBW-V, DMxxxG12RT-66HSW-V,DMxxxG12RT-66HBW-V,DMxxxG12RT-66HBB-V, DMxxxG12RT-54HSW-V,DMxxxG12RT-54HBW-V,DMxxxG12RT-54HBB-V, DMxxxG12RT-48HSW-V,DMxxxG12RT-48HBW-V,DMxxxG12RT-48HBB-V, DMxxxM10RT-54HBB-LV,DMxxxM10RT-54HSW-LV, DMxxxM10RT-54HBW-LV, DMxxxM10RT-30HSW-LV, DMxxxM10RT-30HBW-LV, DMxxxM10RT-30HBB-LV DMxxxM10T-B78HBB,DMxxxM10T-B78HSW,DMxxxM10T-B78HST,DMxxxM10T- B78HBW,DMxxxM10T-B78HBT, DMxxxM10T-B72HBB,DMxxxM10T-B72HSW,DMxxxM10T-B72HST,DMxxxM10T- B72HBW,DMxxxM10T-B72HBT, DMxxxM10T-B66HBB,DMxxxM10T-B66HSW,DMxxxM10T-B66HST,DMxxxM10T- B66HBW,DMxxxM10T-B66HBT, DMxxxM10T-B60HBB,DMxxxM10T-B60HSW,DMxxxM10T-B60HST,DMxxxM10T- B60HBW,DMxxxM10T-B60HBT, DMxxxM10T-B54HBB,DMxxxM10T-B54HSW,DMxxxM10T-B54HST,DMxxxM10T- B54HBW,DMxxxM10T-B54HBT, DMxxxM10T-B32HBT,DMxxxM10T-B32HST,DMxxxM10T-B32HBB,DMxxxM10T- B32HSW,DMxxxM10T-B32HBW, DMxxxM10RT-B72HSW,DMxxxM10RT-B72HBW,DMxxxM10RT-B72HBB,DMxxxM10RT- B72HST,DMxxxM10RT-B72HBT,</p>	

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DMxxxM10RT-B60HSW,DMxxxM10RT-B60HBW,DMxxxM10RT-B60HST,DMxxxM10RT-B60HBT,DMxxxM10RT-B60HBB,  
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DMxxxG12RT-B54HST-U,DMxxxG12RT-B54HBT-U,DMxxxG12RT-B54HBB-U,DMxxxG12RT-B54HSW-U,  
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DMxxxM10RT-B60DSW,DMxxxM10RT-B60DST,DMxxxM10RT-B60DBW,DMxxxM10RT-B60DBT,DMxxxM10RT-B60DBB,  
DMxxxM10RT-B54DSW,DMxxxM10RT-B54DST,DMxxxM10RT-B54DBW,DMxxxM10RT-B54DBT,DMxxxM10RT-B54DBB, DMxxxM10RT-B27HSW,DMxxxM10RT-B27HBW,DMxxxM10RT-B27HBB,  
DMxxxM10RT-B30HSW,DMxxxM10RT-B30HBW,DMxxxM10RT-B30HBB;

**PERC seires:**

DMxxxM2-60SW, DMxxxM2-60BW, DMxxxM2-60BB,  
DMxxxM2-72SW, DMxxxM2-72BW, DMxxxM2-72BB,  
DMxxxM2-60HSW, DMxxxM2-60HBW, DMxxxM2-60HBB,  
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DMxxxM10-72HSW,DMxxxM10-72HBW,DMxxxM10-72HBB,  
DMxxxM10-78HSW,DMxxxM10-78HBW,DMxxxM10-78HBB,  
DMxxxM2-60SW-V, DMxxxM2-60BW-V, DMxxxM2-60BB-V,  
DMxxxM2-72SW-V, DMxxxM2-72BW-V, DMxxxM2-72BB-V,  
DMxxxM2-60HSW-V, DMxxxM2-60HBW-V, DMxxxM2-60HBB-V,  
DMxxxM2-72HSW-V, DMxxxM2-72HBW-V, DMxxxM2-72HBB-V,  
DMxxxM6-60HSW-V,DMxxxM6-60HBW-V,DMxxxM6-60HBB-V,  
DMxxxM6-72HSW-V,DMxxxM6-72HBW-V,DMxxxM6-72HBB-V,  
DMxxxM10-54HSW-V,DMxxxM10-54HBW-V,DMxxxM10-54HBB-V,  
DMxxxM10-60HSW-V,DMxxxM10-60HBW-V,DMxxxM10-60HBB-V,  
DMxxxM10-66HSW-V,DMxxxM10-66HBW-V,DMxxxM10-66HBB-V,  
DMxxxM10-72HSW-V,DMxxxM10-72HBW-V,DMxxxM10-72HBB-V,  
DMxxxM10-78HSW-V,DMxxxM10-78HBW-V,DMxxxM10-78HBB-V,  
DMxxxM6-B60HSW,DMxxxM6-B60HBW,DMxxxM6-B60HST,DMxxxM6-B60HBT,DMxxxM6-B60HBB,  
DMxxxM6-B72HSW,DMxxxM6-B72HBW,DMxxxM6-B72HST,DMxxxM6-B72HBT,DMxxxM6-B72HBB,  
DMxxxM10-B54HSW,DMxxxM10-B54HBW,DMxxxM10-B54HST,DMxxxM10-B54HBT,DMxxxM10-B54HBB,  
DMxxxM10-B60HSW,DMxxxM10-B60HBW,DMxxxM10-B60HST,DMxxxM10-B60HBT,DMxxxM10-B60HBB,  
DMxxxM10-B66HSW,DMxxxM10-B66HST,DMxxxM10-B66HBT,DMxxxM10-B66HSW,DMxxxM10-B66HBB,

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DMxxxM10-B72HSW,DMxxxM10-B72HBW,DMxxxM10-B72HST,DMxxxM10-B72HBT,DMxxxM10-B72HBB,  
DMxxxM10-B78HSW,DMxxxM10-B78HBW,DMxxxM10-B78HST,DMxxxM10-B78HBT,DMxxxM10-B78HBB,  
DMxxxG1-G72ST, DMxxxG1-G72SW, DMxxxG1-G72BT, DMxxxG1-G72BB,  
DMxxxG1-G60ST,DMxxxG1-G60SW, DMxxxG1-G60BT, DMxxxG1-G60BT,  
DMxxxG1-G72HST, DMxxxG1-G72HSW,DMxxxG1-G72HBT,DMxxxG1-G72HBB,  
DMxxxG1-G60HST,DMxxxG1-G60HSW,DMxxxG1-G60HBT,DMxxxG1-G60HBT,  
DMxxxG1-B72ST,DMxxxG1-B72SW,DMxxxG1-B72BT,DMxxxG1-B72BB,  
DMxxxG1-B60ST,DMxxxG1-B60SW,DMxxxG1-B60BT,DMxxxG1-B60BT,  
DMxxxG1-B72HST,DMxxxG1-B72HSW,DMxxxG1-B72HBT, DMxxxG1-B72HBB, DMxxxG1-B60HST,DMxxxG1-B60HSW,DMxxxG1-B60HBT,DMxxxG1-B60HBT,  
DMHxxxM6A-72ST,DMHxxxM6A-72BT,DMHxxxM6A-60ST,DMHxxxM6A-60BT,  
DMHxxxM6A-144HST,DMHxxxM6A-144HBT,DMHxxxM6A-120HST,DMHxxxM6A-120HBT

**Greenhouse series which are with the model name start with "GH"GH series other type:**

GHxxxG1-60SW-C,  
GHxxxM6-B54HST-C,GHxxxM6-B54HSW-C,GHxxxM6-B66HST-C,GHxxxM6-B66HSW-C,  
GHxxxM6-B72HST-C,GHxxxM6-B72HSW-C,  
GHxxxM10-B48HST-C,GHxxxM10-B66HST-C,GHxxxM10-B66HSW-C,GHxxxM10-B72HST-C,  
GHxxxM10-B72HSW-C,  
GHxxxM10T-78HBB,GHxxxM10T-78HSW,GHxxxM10T-78HBW,  
GHxxxM10T-72HBB,GHxxxM10T-72HSW,GHxxxM10T-72HBW,  
GHxxxM10T-66HBB,GHxxxM10T-66HSWGHxxxM10T-66HBW,  
GHxxxM10T-60HBB,GHxxxM10T-60HSW,GHxxxM10T-60HBW,  
GHxxxM10T-54HBBGHxxxM10T-54HSW,GHxxxM10T-54HBW,  
GHxxxM10RT-60HBB,GHxxxM10RT-60HSW,GHxxxM10RT-60HBW,  
GHxxxM10RT-54HBB,GHxxxM10RT-54HSW,GHxxxM10RT-54HBW,  
GHxxxG12RT-66HSW,GHxxxG12RT-66HBW,GHxxxG12RT-66HBB,  
GHxxxM10T-78HBB-V,GHxxxM10T-78HSW-V,GHxxxM10T-78HBW-V,  
GHxxxM10T-72HBB-V,GHxxxM10T-72HSW-V,GHxxxM10T-72HBW-V,  
GHxxxM10T-66HBB-V.GHxxxM10T-66HSW-V,GHxxxM10T-66HBW-V,  
GHxxxM10T-60HBB-V,GHxxxM10T-60HSW-V,GHxxxM10T-60HBW-V,  
GHxxxM10T-54HBB-V,GHxxxM10T-54HSW-V,GHxxxM10T-54HBW-V,  
GHxxxM10RT-60HBB-V,GHxxxM10RT-60HSW-V,GHxxxM10RT-60HBW-V,  
GHxxxM10RT-54HBB-V,GHxxxM10RT-54HSW-V,GHxxxM10RT-54HBW-V,  
GHxxxG12RT-66HSW-V,GHxxxG12RT-66HBW-V,GHxxxG12RT-66HBB-V,  
GHxxxM10T-B78HBB,GHxxxM10T-B78HSW,GHxxxM10T-B78HST,GHxxxM10T-B78HBW,GHxxxM10T-B78HBT,  
GHxxxM10T-B72HBB,GHxxxM10T-B72HSW,GHxxxM10T-B72HST,GHxxxM10T-B72HBW,GHxxxM10T-B72HBT,  
GHxxxM10T-B66HBB,GHxxxM10T-B66HSW,GHxxxM10T-B66HST,GHxxxM10T-B66HBW,GHxxxM10T-B66HBT,  
GHxxxM10T-B60HBB,GHxxxM10T-B60HSW,GHxxxM10T-B60HSTGHxxxM10T-B60HBW,GHxxxM10T-B60HBT,  
GHxxxM10T-B54HBB,GHxxxM10T-B54HSW,GHxxxM10T-B54HST,GHxxxM10T-B54HBW,GHxxxM10T-B54HBT,  
GHxxxM10T-B54HBB-L,GHxxxM10T-B54HSW-L,GHxxxM10T-B54HST-L,GHxxxM10T-B54HBW-L,  
GHxxxM10T-B54HBT-L,  
GHxxxM10T-B48HST,GHxxxM10T-B44HST,GHxxxM10T-B40HST,GHxxxM10T-B36HST,  
GHxxxM10RT-B60HSW,GHxxxM10RT-B60HBW,GHxxxM10RT-B60HST,GHxxxM10RT-B60HBT,GHxxxM10RT-B60HBB,  
GHxxxM10RT-B54HSW,GHxxxM10RT-B54HBW,GHxxxM10RT-B54HST,GHxxxM10RT-B54HBT,GHxxxM10RT-B54HBB,

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GHxxxM10RT-B54HSW-L, GHxxxM10RT-B54HBW-L, GHxxxM10RT-B54HST-L, GHxxxM10RT-B54HBT-L,  
GHxxxM10RT-B54HBB-L,  
GHxxxG12RT-B66HSW, GHxxxG12RT-B66HBW, GHxxxG12RT-B66HST, GHxxxG12RT-B66HBT, GHxxxG12RT-B66HBB,  
GHxxxG12T-B66HSW, GHxxxG12T-B66HBW, GHxxxG12T-B66HST, GHxxxG12T-B66HBT, GHxxxG12T-B66HBB,  
GHxxxM10T-G72HBB, GHxxxM10T-G72HSW, GHxxxM10T-G72HBW,  
GHxxxM10T-G66HBB, GHxxxM10T-G66HSW, GHxxxM10T-G66HBW,  
GHxxxM10T-G60HBB, GHxxxM10T-G60HSW, GHxxxM10T-G60HBW,  
GHxxxM10T-G54HBB, GHxxxM10T-G54HSW, GHxxxM10T-G54HBW,  
GHxxxM10RT-G60HBB, GHxxxM10RT-G60HSW, GHxxxM10RT-G60HBW,  
GHxxxM10RT-G54HBB, GHxxxM10RT-G54HSW, GHxxxM10RT-G54HBW,  
GHxxxG12RT-G66HSW, GHxxxG12RT-G66HBW, GHxxxG12RT-G66HBB,  
GHxxxG12RT-G54HSW, GHxxxG12RT-G54HBW, GHxxxG12RT-G54HBB,  
GHxxxG12RT-G48HSW, GHxxxG12RT-G48HBW, GHxxxG12RT-G48HBB,  
GHxxxM10T-B32HBT, GHxxxM10T-B32HST, GHxxxM10T-B36HBT, GHxxxM10T-B36HST,  
GHxxxM10T-B40HBT, GHxxxM10T-B40HST, GHxxxM10T-B44HBT, GHxxxM10T-B44HST,  
GHxxxM10T-B48HBT, GHxxxM10T-B48HST, GHxxxM10T-B54HBT, GHxxxM10T-B54HST,  
GHxxxM10T-B66HBT, GHxxxM10T-B66HST, GHxxxM10T-B72HBT, GHxxxM10T-B72HST,  
GHxxxM10T-B78HBT, GHxxxM10T-B78HST,  
GHxxxM10RT-B60HBT, GHxxxM10RT-B60HST, GHxxxM10RT-B54HBT, GHxxxM10RT-B54HST,  
GHxxxM10T-B78HSW-C, GHxxxM10T-B78HST-C, GHxxxM10T-B72HSW-C, GHxxxM10T-B72HST-C,  
GHxxxM10T-B66HSW-C, GHxxxM10T-B66HST-C, GHxxxM10T-B60HSW-C, GHxxxM10T-B60HST-C,  
GHxxxM10T-B54HSW-C, GHxxxM10T-B54HST-C, GHxxxM10T-B48HSW-C, GHxxxM10T-B48HST-C,  
GHxxxM10T-B44HST-C, GHxxxM10T-B44HSW-C, GHxxxM10T-B40HSW-C, GHxxxM10T-B40HST-C,  
GHxxxM10T-B36HST-C, GHxxxM10T-B36HSW-C, GHxxxM10T-B32HST-C, GHxxxM10T-B32HSW-C,  
GHxxxM10RT-B60HSW-C, GHxxxM10RT-B60HST-C, GHxxxM10RT-B54HSW-C, GHxxxM10RT-B54HST-C  
GHxxxM10RT-B48HSW-C, GHxxxM10RT-B48HST-C, GHxxxM10RT-B44HSW-C, GHxxxM10RT-B44HST-C,  
GHxxxM10RT-B40HSW-C, GHxxxM10RT-B40HST-C, GHxxxM10RT-B36HSW-C, GHxxxM10RT-B36HST-C,  
GHxxxM10RT-B32HSW-C, GHxxxM10RT-B32HST-C,  
GHxxxG12RT-B48HSW-C, GHxxxG12RT-B48HST-C, GHxxxG12RT-B44HSW-C, GHxxxG12RT-B44HST-C,  
GHxxxG12RT-B40HSW-C, GHxxxG12RT-B40HST-C, GHxxxG12RT-B36HSW-C, GHxxxG12RT-B36HST-C,  
GHxxxG12RT-B32HSW-C, GHxxxG12RT-B32HST-C

Remark:

- The report covers material testing on specified samples.
- The tested materials covered by the report were declared by the manufacturer to be used on the additional model.

--END OF REPORT--

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