



Technical Report No.68.402.17.0860.01
Dated 2017-08-25

Client: Lead Opto-Technology Co., Limited

Address: A5&A8 Buildings, Luoshan Industrial Park, Pinghu Town, Longgang District, Shenzhen, China.

Attn.: Ms. Amy

Sample Description: Solar LED Light

Model No.: LSD-SWL-7W-Butterfly, LSD-SWL-6.8W-Butterfly, LSD-SWL-3.2W-Butterfly, LSD-SWL-2W-Butterfly, LSD-SWL-1.5W-Butterfly, LSD-SWL-2W-Crown, LSD-SLL-3S-Diamond, LSD-SGL-2W-XCrown, LSD-SWL-1.5WPlus-Butterfly, LSD-SWL-4WPlus-Butterfly, LSD-SWL-1.5W-Butterfly-SP

Ref. Model No.: LSD-SGL-Flame, LD-SFL-10W-Leadpad

Supplier: Lead Opto-Technology Co., Limited

Country of origin: CHINA

Exported to: Europe

Details of Submitted Sample: Refer to following page(s)

Sample Receive Date: 2017-07-26

Test Period: From 2017-07-26 to 2017-08-08

Test Requested: REACH Regulation (EC) No. 1907/2006
- 174 Substances of Very High Concern (SVHC) analysis based on the Candidate List published on the European Chemicals Agency (ECHA) website in October 2008, January 2010, March 2010, June 2010, December 2010, June 2011, December 2011, June 2012, December 2012, June 2013, December 2013, June 2014, December 2014, June 2015, December 2015, June 2016, January 2017 and July 2017

Test Result: Refer to following page(s)

Summary: According to the specified scope and analytical techniques, the concentration of each of the 174 SVHC is <0.1% (w/w) in the component(s) of submitted product(s).

Remark: The result relates only to the items tested.

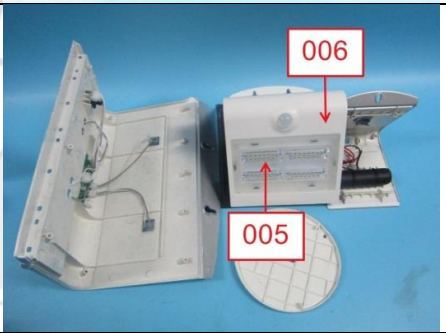
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TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
TÜV SÜD Group
Building 12&13, Zhiheng Wisdomland Business Park,
Nantou Checkpoint road 2,
Shenzhen 518052, P. R. China

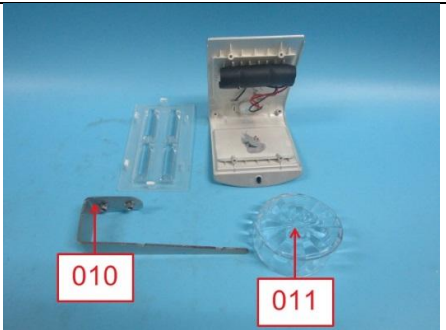
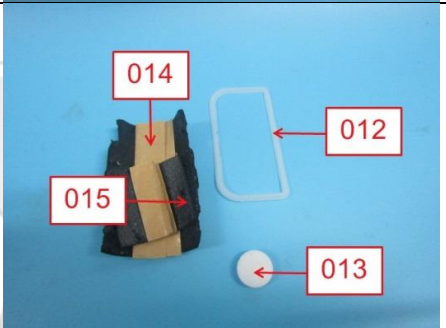
Tel.: (86) 755 88286998
Fax: (86) 755 88285299

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1. TESTED SUBJECT DESCRIPTION

Sample Number	Tested Item Description	Photo
001	Black plastic case	
002	Translucent plastic button	
003	Black plastic with blue body	
004	Silvery metal spring	
005	Transparent plastic	
006	White plastic case	
007	Silvery coating silvery metal	
008	Silvery coating beige plastic	
009	White plastic case	

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Sample Number	Tested Item Description	Photo
010	Silvery metal	
011	Transparent plastic	
012	White soft plastic ring	
013	White soft plastic button	
014	Brown paper with glue	
015	Black foam	
016	White glue	
017	Gray glue	
018	Black soft plastic	

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Sample Number	Tested Item Description	Photo
019	White plastic pin	
020	Silvery metal screws	
021a	Red soft plastic wire jacket	
021b	Black soft plastic wire jacket	
021c	Silvery metal wire	
022a	White plastic holder	
022b	White soft plastic wire jacket	
022c	Gray soft plastic wire jacket	
023	White PCB with LED	

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Sample Number	Tested Item Description	Photo
024	White PCB with LED	
025	White PCB with LED	
026	White PCB with LED	
027	White PCB with LED	

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Sample Number	Tested Item Description	Photo
028	White PCB with unit	
029	White PCB with unit	
030	Green PCB with unit	
031	Green PCB with unit	

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Sample Number	Tested Item Description	Photo
032	Green PCB with unit	
033	Green PCB with unit	
034a	Blue plastic packed	
034b	Silvery metal battery	

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2. TEST RESULTS

Test method: Screening test, analyzed based on Liquid Chromatography Mass Spectrometry (LC-MS), Gas Chromatography and Mass Spectrometry (GC-MS), headspace GC-MS, Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES), UV-Vis spectrophotometer and X-Ray Fluorescence Spectrometer (XRF). [Reporting limit: 0.01%]

Test Item(s)	Result[%]	
	Sample 001+002+005+006+008+009+011+019	Sample 003
4,4'-isopropylidenediphenol (bisphenol A; BPA) (CAS No. 80-05-7)	0.01	< 0.01
Other substances of very high concern (SVHCs)*	< 0.01	< 0.01

Test Item(s)	Result[%]	
	Sample 004+007+010+020	Sample 012+013
Each of 174 substances of very high concern (SVHCs)*	< 0.01	< 0.01

Test Item(s)	Result[%]	
	Sample 014	Sample 015
Each of 174 substances of very high concern (SVHCs)*	< 0.01	< 0.01

Test Item(s)	Result[%]	
	Sample 016+017	Sample 018
Each of 174 substances of very high concern (SVHCs)*	< 0.01	< 0.01

Note:

- “%” denotes percent by weight
- “<” denotes less than
- “*” refer to APPENDIX I for detailed list of SVHCs
- As per article 33 of the REACH regulation (EC No. 1907/2006), recipients of article must be provided with information of safe use if any of the tested substances exceeded 0.1% (w/w).

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(Continued)

Test Item(s)	Result[%]	
	Sample 021	Sample 022
Each of 174 substances of very high concern (SVHCs)*	< 0.01	< 0.01

Test Item(s)	Result[%]	
	Sample 023	Sample 024
Each of 174 substances of very high concern (SVHCs)*	< 0.01	< 0.01

Test Item(s)	Result[%]	
	Sample 025	Sample 026
Each of 174 substances of very high concern (SVHCs)*	< 0.01	< 0.01

Test Item(s)	Result[%]	
	Sample 027	Sample 028
Each of 174 substances of very high concern (SVHCs)*	< 0.01	< 0.01

Test Item(s)	Result[%]	
	Sample 029	Sample 030
Each of 174 substances of very high concern (SVHCs)*	< 0.01	< 0.01

Note:

- “%” denotes percent by weight
- “<” denotes less than
- “*” refer to APPENDIX I for detailed list of SVHCs
- As per article 33 of the REACH regulation (EC No. 1907/2006), recipients of article must be provided with information of safe use if any of the tested substances exceeded 0.1% (w/w).

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(Continued)

Test Item(s)	Result[%]	
	Sample 031	Sample 032
Each of 174 substances of very high concern (SVHCs)*	< 0.01	< 0.01

Test Item(s)	Result[%]	
	Sample 033	Sample 034
Each of 174 substances of very high concern (SVHCs)*	< 0.01	< 0.01

Note:

- “%” denotes percent by weight
- “<” denotes less than
- “*” refer to APPENDIX I for detailed list of SVHCs
- As per article 33 of the REACH regulation (EC No. 1907/2006), recipients of article must be provided with information of safe use if any of the tested substances exceeded 0.1% (w/w).

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

Reviewed by:



Ken Li
Project Handler



Vic Wei
Designated Reviewer

APPENDIX I - 174 SUBSTANCES OF VERY HIGH CONCERN (SVHCs)

1. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN OCTOBER 2008 BY ECHA

Substance Name	CAS NO.	EC NO.
Anthracene	120-12-7	204-371-1
4,4'- Diaminodiphenylmethane (MDA)	101-77-9	202-974-4
Dibutyl phthalate (DBP)	84-74-2	201-557-4
Cobalt dichloride*	7646-79-9	231-589-4
Diarsenic pentaoxide*	1303-28-2	215-116-9
Diarsenic trioxide*	1327-53-3	215-481-4
Sodium dichromate*	7789-12-0 and 10588-01-9	234-190-3
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-HBCDD, Beta-HBCDD, Gamma-HBCDD	25637-99-4 and 3194-55-6 (134237-50-6, 134237-51-7, 134237-52-8)	247-148-4 and 221-695-9
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (SCCP)	85535-84-8	287-476-5
Bis(tributyltin)oxide (TBTO)*	56-35-9	200-268-0
Lead hydrogen arsenate*	7784-40-9	232-064-2
Benzyl butyl phthalate (BBP)	85-68-7	201-622-7
Triethyl arsenate*	15606-95-8	427-700-2

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2. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN JANUARY 2010 AND MARCH 2010 BY ECHA

Substance Name	CAS NO.	EC NO.
Anthracene oil [#]	90640-80-5	292-602-7
Anthracene oil, anthracene paste, distn. lights [#]	91995-17-4	295-278-5
Anthracene oil, anthracene paste, anthracene fraction [#]	91995-15-2	295-275-9
Anthracene oil, anthracene-low [#]	90640-82-7	292-604-8
Anthracene oil, anthracene paste [#]	90640-81-6	292-603-2
Pitch, coal tar, high temp [#]	65996-93-2	266-028-2
2,4-Dinitrotoluene	121-14-2	204-450-0
Diisobutyl phthalate (DIBP)	84-69-5	201-553-2
Tris(2-chloroethyl)phosphate	115-96-8	204-118-5
Lead chromate*	7758-97-6	231-846-0
Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	215-693-7
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	235-759-9
Acrylamide	79-06-1	201-173-7

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3. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN JUNE 2010 BY ECHA

Substance Name	CAS NO.	EC NO.
Trichloroethylene	79-01-6	201-167-4
Boric acid*	10043-35-3 11113-50-1	233-139-2 234-343-4
Disodium tetraborate, anhydrous*	1330-43-4 12179-04-3 1303-96-4	215-540-4
Tetraboron disodium heptaoxide, hydrate*	12267-73-1	235-541-3
Sodium chromate*	7775-11-3	231-889-5
Potassium chromate*	7789-00-6	232-140-5
Ammonium dichromate*	7789-9-5	232-143-1
Potassium dichromate*	7778-50-9	231-906-6

4. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN DECEMBER 2010 BY ECHA

Substance Name	CAS NO.	EC NO.
Cobalt(II) sulphate*	10124-43-3	233-334-2
Cobalt(II) dinitrate*	10141-05-6	233-402-1
Cobalt(II) carbonate*	513-79-1	208-169-4
Cobalt(II) diacetate*	71-48-7	200-755-8
2-Methoxyethanol	109-86-4	203-713-7
2-Ethoxyethanol	110-80-5	203-804-1
Chromium trioxide*	1333-82-0	215-607-8
Acids generated from chromium trioxide and their oligomers*	7738-94-5 13530-68-2 not yet assigned	231-801-5 236-881-5 not yet assigned

5. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN JUNE 2011 BY ECHA

Substance Name	CAS NO.	EC NO.
2-Ethoxyethyl acetate (2-EEA)	111-15-9	203-839-2
Strontium chromate*	7789-06-2	232-142-6
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)#	68515-42-4	271-084-6
Hydrazine	7803-57-8, 302-01-2	206-114-9
1-Methyl-2-pyrrolidone	872-50-4	212-828-1
1,2,3-Trichloropropane	96-18-4	202-486-1
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	276-158-1

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6. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN DECEMBER 2011 BY ECHA

Substance Name	CAS NO.	EC NO.
1,2-Dichloroethane	107-06-2	203-458-1
2,2'-Dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9
2-Methoxyaniline, o-Anisidine	90-04-0	201-963-1
4-(1,1,3,3-Tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	205-426-2
Aluminosilicate Refractory Ceramic Fibres (RCF)	--	---
Arsenic acid*	7778-39-4	231-901-9
Bis(2-methoxyethyl) ether	111-96-6	203-924-4
Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6
Calcium arsenate*	7778-44-1	231-904-5
Dichromium tris(chromate) *	24613-89-6	246-256-2
Formaldehyde, oligomeric reaction products with aniline (technical MDA) #	25214-70-4	500-036-1
Lead diazide*	13424-46-9	236-542-1
Lead dipicrate*	6477-64-1	229-335-2
Lead styphnate*	15245-44-0	239-290-0
N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4
Pentazinc chromate octahydroxide*	49663-84-5	256-418-0
Phenolphthalein	77-09-8	201-004-7
Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	234-329-8
Trilead diarsenate*	3687-31-8	222-979-5
Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) *	--	---

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7. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN JUNE 2012 BY ECHA

Substance Name	CAS NO.	EC NO.
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9
Diboron trioxide*	1303-86-2	215-125-8
Formamide	75-12-7	200-842-0
Lead(II) bis(methanesulfonate)*	17570-76-2	401-750-5
1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (TGIC)	2451-62-9	219-514-3
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	423-400-0
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2
[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	219-943-6
[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	208-953-6
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1	209-218-2
α,α-Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0	229-851-8

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8. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN DECEMBER 2012 BY ECHA

Substance Name	CAS NO.	EC NO.
Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	214-604-9
Pentacosafuorotridecanoic acid	72629-94-8	276-745-2
Tricosafuorododecanoic acid	307-55-1	206-203-2
Henicosafuoroundecanoic acid	2058-94-8	218-165-4
Heptacosafuorotetradecanoic acid	376-06-7	206-803-4
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated§	-	-
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§	-	-
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8
Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	85-42-7	
Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1
Methoxy acetic acid	625-45-6	210-894-6
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2
Diisopentylphthalate (DIPP)	605-50-5	210-088-4
N-pentyl-isopentylphthalate	776297-69-9	-
1,2-Diethoxyethane	629-14-1	211-076-1
N,N-dimethylformamide; dimethyl formamide	68-12-2	200-679-5
Dibutyltin dichloride (DBT)	683-18-1	211-670-0
Acetic acid, lead salt, basic*	51404-69-4	257-175-3
Basic lead carbonate (trilead bis(carbonate)dihydroxide)*	1319-46-6	215-290-6
Lead oxide sulfate (basic lead sulfate)*	12036-76-9	234-853-7
[Phthalato(2-)]dioxotrilead (dibasic lead phthalate)*	69011-06-9	273-688-5
Dioxobis(stearato)trilead*	12578-12-0	235-702-8
Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7
Lead bis(tetrafluoroborate)*	13814-96-5	237-486-0
Lead cyanamate*	20837-86-9	244-073-9
Lead dinitrate*	10099-74-8	233-245-9
Lead oxide (lead monoxide)*	1317-36-8	215-267-0
Lead tetroxide (orange lead)*	1314-41-6	215-235-6
Lead titanium trioxide*	12060-00-3	235-038-9
Lead Titanium Zirconium Oxide*	12626-81-2	235-727-4

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Substance Name	CAS NO.	EC NO.
Pentalead tetraoxide sulphate*	12065-90-6	235-067-7
Pyrochlore, antimony lead yellow*	8012-00-8	232-382-1
Silicic acid, barium salt, lead-doped*	68784-75-8	272-271-5
Silicic acid, lead salt*	11120-22-2	234-363-3
Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1
Tetraethyllead*	78-00-2	201-075-4
Tetralead trioxide sulphate*	12202-17-4	235-380-9
Trilead dioxide phosphonate*	12141-20-7	235-252-3
Furan	110-00-9	203-727-3
Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	200-879-2
Diethyl sulphate	64-67-5	200-589-6
Dimethyl sulphate	77-78-1	201-058-1
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7
Dinoseb	88-85-7	201-861-7
4,4'-methylenedi-o-toluidine	838-88-0	212-658-8
4,4'-oxydianiline and its salts	101-80-4	202-977-0
4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3	200-453-6
4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7	202-453-1
6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1
Biphenyl-4-ylamine	92-67-1	202-177-1
o-aminoazotoluene	97-56-3	202-591-2
o-Toluidine; 2-Aminotoluene	95-53-4	202-429-0
N-methylacetamide	79-16-3	201-182-6
1-bromopropane; n-propyl bromide	106-94-5	203-445-0

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9. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN JUNE 2013 BY ECHA

Substance Name	CAS NO.	EC NO.
Cadmium	7440-43-9	231-152-8
Cadmium oxide*	1306-19-0	215-146-2
Dipentyl phthalate (DPP)	131-18-0	205-017-9
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]	-	-
Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4
Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-379-9

10. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN DECEMBER 2013 BY ECHA

Substance Name	CAS NO.	EC NO.
Cadmium sulphide*	1306-23-6	215-147-8
Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	209-358-4
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	217-710-3
Dihexyl phthalate	84-75-3	201-559-5
Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	202-506-9
Lead di (acetate)	301-04-2	206-104-4
Trixylyl phosphate	25155-23-1	246-677-8

11. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN JUNE 2014 BY ECHA

Substance Name	CAS NO.	EC NO.
1, 2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5
Cadmium chloride*	10108-64-2	233-296-7
Sodium perborate, perboric acid, sodium salt*	--	239-172-9, 234-390-0
Sodium peroxometaborate*	7632-04-4	231-556-4

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12. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN DECEMBER 2014 BY ECHA

Substance Name	CAS NO.	EC NO.
Cadmium fluoride*	7790-79-6	232-222-0
Cadmium sulphate*	10124-36-4; 31119-53-6	233-331-6
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	247-384-8
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	239-622-4
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)	--	--

13. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN JUNE 2015 BY ECHA

Substance Name	CAS NO.	EC NO.
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 68648-93-1	271-094-0 272-013-1
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	--	--

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14. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN DECEMBER 2015 BY ECHA

Substance Name	CAS NO.	EC NO.
1,3-propanesultone	1120-71-4	214-317-9
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1
Nitrobenzene	98-95-3	202-716-0
Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluorononanoic acid and its sodium and ammonium salts	375-95-1; 21049-39-8; 4149-60-4	206-801-3

15. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN JUNE 2016 BY ECHA

Substance Name	CAS NO.	EC NO.
Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	200-028-5

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16. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN JANUARY 2017 BY ECHA

Substance Name	CAS NO.	EC NO.
4,4'-isopropylidenediphenol (bisphenol A; BPA)	80-05-7	201-245-8
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2, 3830-45-3, 3108-42-7	206-400-3, 221-470-5
p-(1,1-dimethylpropyl)phenol	80-46-6	201-280-9
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]	-	-

17. REACH SVHCS ON THE CANDIDATE LIST, PUBLISHED IN JULY 2017 BY ECHA

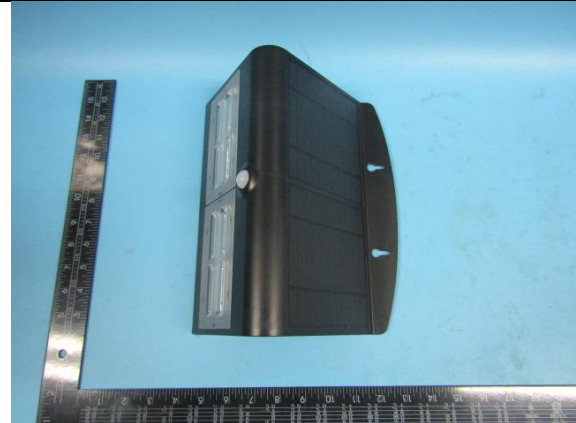
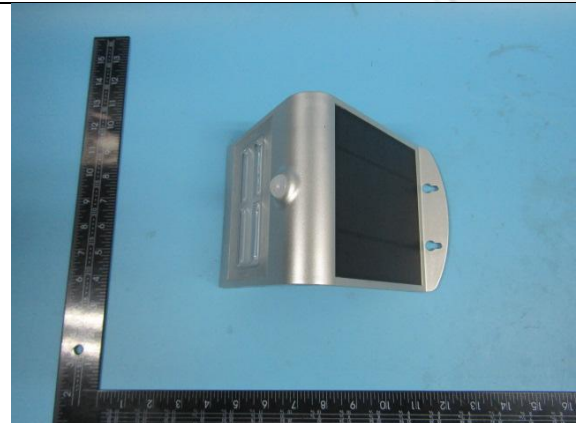
Substance Name	CAS NO.	EC NO.
Perfluorohexane-1-sulfonic acid and its salts (PFHxS)	-	-

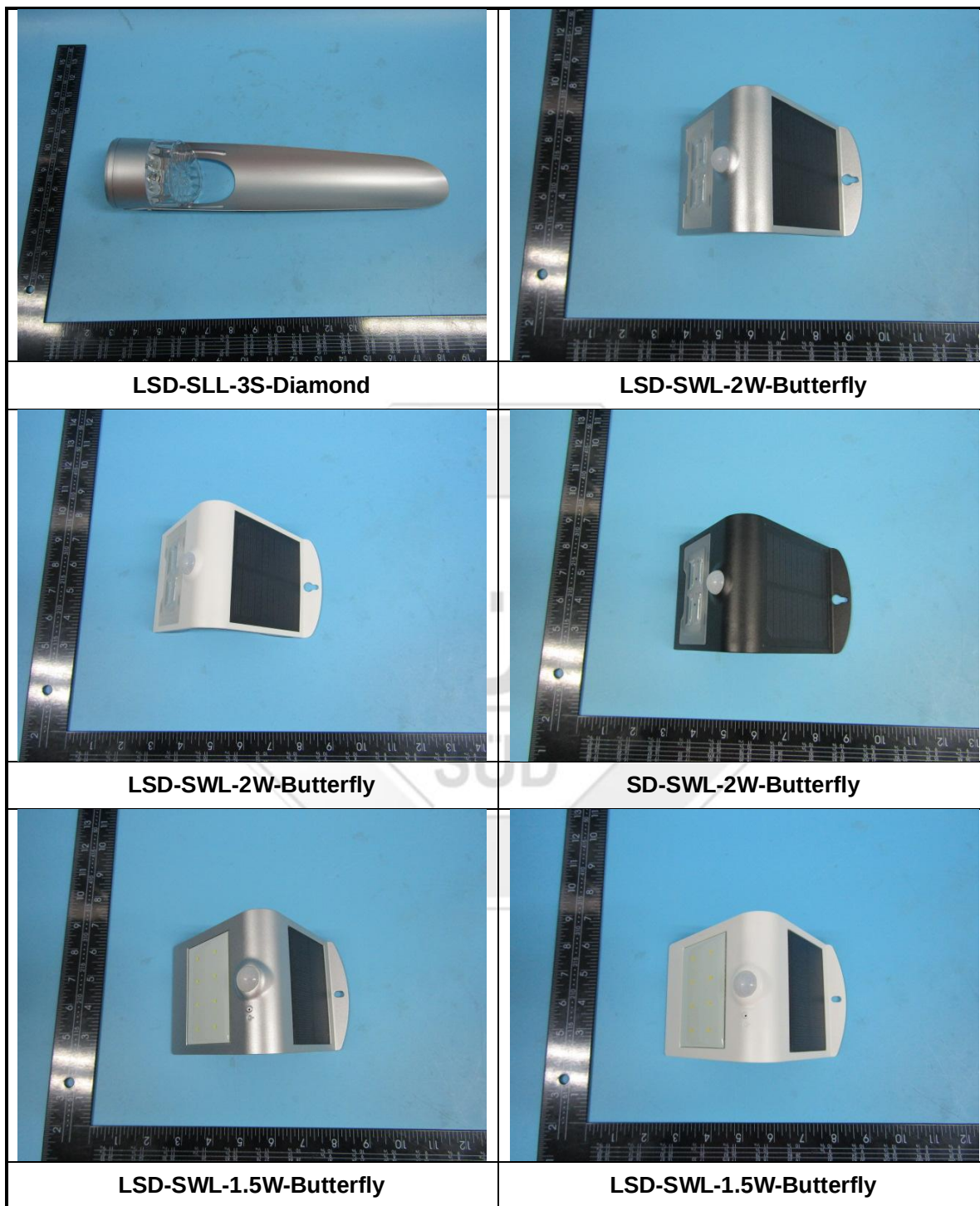
Note:

- “%” denotes percent by weight
- “<” denotes less than
- “*” denotes the concentration of substance cannot be determined directly but be converted from the concentration of specific heavy metal(s).
- “#” denotes the substances are UVCB (substance of unknown or variable composition, complex reaction products or biological material), the test results are calculated based on the main constituents.
- “S” The substances are UVCB (substance of unknown or variable composition, complex reaction products or biological material), the test results are calculated based on the main constituents.
- As per article 33 of the REACH regulation (EC No. 1907/2006), recipients of product must be provided with information of safe use if any of the tested substances exceeded 0.1% (w/w).

APPENDIX II

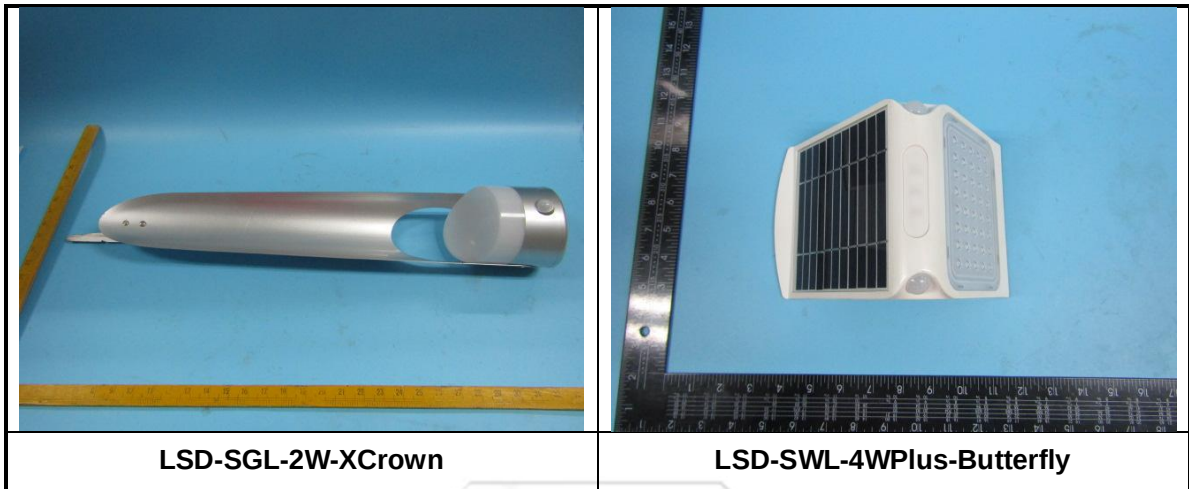
Photos of submitted products

	
LSD-SWL-7W-Butterfly	LSD-SWL-6.8W-Butterfly
	
LSD-SWL-7W-Butterfly	LSD-SWL-3.2W-Butterfly
	
LSD-SWL-3.2W-Butterfly	LSD-SWL-3.2W-Butterfly



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LSD-SWL-1.5W-Butterfly	LSD-SWL-1.5W-Butterfly-SP
	
LSD-SWL-2W-Crown	LSD-SWL-2W-Crown
	
LSD-SWL-1.5WPlus-Butterfly	LSD-SWL-1.5WPlus-Butterfly



APPENDIX III

According to client's declaration, the tested material of the product Solar LED Light (Model No.: LSD-SWL-7W-Butterfly, LSD-SWL-6.8W-Butterfly, LSD-SWL-3.2W-Butterfly, LSD-SWL-2W-Butterfly, LSD-SWL-1.5W-Butterfly, LSD-SWL-2W-Crown, LSD-SLL-3S-Diamond, LSD-SGL-2W-XCrown, LSD-SWL-1.5WPlus-Butterfly, LSD-SWL-4WPlus-Butterfly, LSD-SWL-1.5W-Butterfly-SP) would be produced below products:

	
LSD-SGL-Flame	LD-SFL-10W-Leadpad
