European Union's REACH Regulation Declaration

To whom it may concern:

LONGI SOLAR TECHNOLOGY CO., LTD. is a manufacturer of solar module, and therefore considered as a "downstream user" as far as the REACH document is concerned. Lemvigh-Müller A/S as an importer of the own branded product to EU is obligated to register with the European Chemicals Agency (ECHA).

Basis on which conformity is declared:

LONGI SOLAR TECHNOLOGY CO., LTD. is aware of the European Reach regulation (Regulation (EC) No 1907/2006) of the European Parliament and of the Council of December 18th, 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals and later corrigendum to it.

According to article 31 (1) of REACH-regulation the supplier of a substance or a mixture shall provide a safety data sheet where a substance or a mixture meets the criteria in accordance with Regulation (EC) No 1272/2008 and Directive 1907/2006/EC Annex II, XIII or Article 59 (1).

Furthermore article 33 of the regulation obliges the supplier of a product which includes a substance of the "candidate list" (below) in a concentration > 0,1 % (w/w) to inform its consumers with at minimum the name of the substance. Therefore Lemvigh-Müller A/S controls on a regular basis whether its suppliers fulfil their obligations under the REACH regulation regarding Lemvigh-Müller A/S products / systems.

LONGI SOLAR TECHNOLOGY CO., LTD. hereby declares that its products / systems comply with the requirements of the Reach regulation. In case that the substances mentioned in the most recent list of substances of very high concern (SVHC) (published by the European Chemicals Agency (ECHA), Link:
https://echa.europa.eu/candidate-list-table
are contained in products delivered to Lemvigh-Müller A/S in concentrations above 0.1 % (w/w) LONGI SOLAR TECHNOLOGY CO., LTD. discloses them in its Safety Data Sheets, product information sheets and tables below.

https://echa.europa.eu/en/regulations/reach/understanding-reach

We hereby declare that our products listed below **do not include** substances of very high concern (SVHC) or traces **do not exceed** the concentration of 0.1% by weight.

Vendor model No.	Customer product code	Product name	Product Description
LR5-54 HIB/HPB	7899996836 5709728902485	Solar Module	1722 x 1134mm module, color: Black frame + Black backsheet

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We hereby declare that our products listed below **include** substances of very high concern (SVHC) or traces **that exceed** the concentration of 0.1% by weight.

Vendor model no.	Customer product code	Product name	Product Description	Substance	CAS	Concentration

24-02-2023

Signature & Stamp **Date**

PRINTED NAME:__Toky Hu_____

CONTACT PHONE NUMBER: __0086-21-54873302____

CONTACT EMAIL ADDRESS: _hudan@china-cabletie.com_____

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Substance of very high concern (SVHC) based on the REACH declaration according to the latest candidate list containing 223 substances from Jan. 2022.

Latest list of candidate tables: https://echa.europa.eu/candidate-list-table

Substance Name	CAS Number	EC Number
Triethyl Arsenate	15606-95-8	427-700-2
Sodium Dichromate,	10288-01-9 7789-12-0	234-190-3
Lead Hydrogen Arsenate	7784-40-9	232-064-2
Hexabromocyclododecane, HBCDD	25637-99-4	247-148-4
Dibutyl Phthalate(DBP)	84-74-2	201-557-5
Diarsenic Pentaoxide	1303-28-2	215-116-9
Cobalt Dichloride	7646-79-9	231-589-4
Diarsenic Trioxide	1327-53-3	215-481-4
Bis(tributyltin) Oxide(TBTO)	56-35-9	200-268-0
Bis(2-ethyl(hexyl)phthalate), DEHP	117-81-7	204-211-0
Benzyl Butyl Phthalate, BBP	85-68-7	201-622-7
Anthracene	120-12-7	204-371-1
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4
4,4'-Diaminodiphenylmethane(MDA)	101-77-9	202-974-4
Tris(2-chloroethyl)phosphate	115-96-8	204-118-5
Pitch, coal tar, high temp.	65996-93-2	266-028-2
Lead sulfochromate yellow, pigment yellow 34	1344-37-2	215-693-7
Lead chromate molybdate sulphate red, pigment red 104	12656-85-8	235-759-9
Lead chromate	7758-97-6	231-846-0
Diisobutyl phthalate (DIBP)	84-69-5	201-553-2
Anthracene oil, anthracene-low	90640-82-7	292-604-8
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 paste	90640-81-6	292-603-2
Anthracene oil	90640-80-5	292-602-7
2,4-Dinitrotoluene	121-14-2	204-450-0
Acrylamide	79-06-1	201-173-7
Trichloroethylene	79-01-6	201-167-4
Tetraboron disodium heptaoxide, hydrate	12267-73-1	235-541-3
Sodium chromate	7775-11-3	231-889-5
Potassium dichromate	7778-50-9	231-906-6
Potassium chromate	7789-00-6	232-140-5
Disodium tetraborate, anhydrous	12179-01-3, 1303-96-4 1330-43-4	215-540-4
Boric acid	11113-50-1	234-343-4
Ammonium dichromate	7789-09-5	232-143-1
Cobalt(II) sulphate*	10124-43-3	233-334-2
Cobalt(II) dinitrate*	10141-05-6	233-402-1
Cobalt(II) diacetate*	71-48-7	200-755-8
Cobalt(II) carbonate*	513-79-1	208-169-4
Chromium trioxide*	1333-82-0	215-607-8
Acids generated from chromium trioxide and their oligomers: Chromic	7738-94-5	238-881-5

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acid, Dichromic acid, Oligomers of chromic acid and dichromic acid*		
2-Methoxyethanol	109-86-4	203-713-7
2-Ethoxyethanol	110-80-5	203-804-1
strontium chromate	7789-06-2	232-142-6
2-ethoxyethyl acetate	203-839-2	111-15-9
Hydrazine	302-01-2, 7803-57-8	206-114-9
1-methyl-2-pyrrolidone(NMP)	872-50-4	212-828-1
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1
1,2,3-trichloropropane	202-486-1	96-18-4
Zirconia 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, 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 (Na2O+K2O+CaO+MgO+BaO) content less or equal to 18% by weight	---	---
Trilead diarsenate	3687-31-8	222-979-5
Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	234-329-8
Phenolphthalein	77-09-8	201-004-7
Pentazinc chromate octahydroxide	49663-84-5	256-418-0
N,N-dimethylacetamide	127-19-5	204-826-4
Lead styphnate	15245-44-0	239-290-0
Lead dipicrate	6477-64-1	229-335-2
Lead diazide, Lead azide	13424-46-9	236-542-1
Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1
Dichromium tris(chromate)	24613-89-6	246-356-2
Calcium arsenate	7778-44-1	231-904-5
Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6
Bis(2-methoxyethyl) ether	111-96-6	203-924-4
Arsenic acid	7778-39-4	231-901-9
Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3,	---	---

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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 (Na2O+K2O+CaO+MgO+BaO) content less or equal to 18% by weight		
4-(1,1,3,3-Tetramethylbutyl)phenol; 4-tert-octyl phenol	140-66-9	205-426-2
2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1
2,2'-Dichloro-4,4'-methylenedianiline	101-14-4	202-918-9
1,2-Dichloroethane	107-06-2	203-458-1
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
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2
Lead(II) bis(methanesulfonate)	17570-76-2	401-750-5
Formamide	75-12-7	200-842-0
Diboron trioxide	1303-86-2	215-125-8
[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)benzophenone (Michler's ketone)	90-94-8	202-027-5
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
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
1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione (TGIC)	2451-62-9	219-514-3
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3
Trilead dioxide phosphonate	12141-20-7	235-252-2
Trilead bis(carbonate)dihydroxide	1319-46-6	215-290-6
Tricosafluorododecanoic acid	307-55-1	206-203-2
Tetralead trioxide sulphate	12202-17-4	235-380-9
Tetraethyllead	78-00-2	201-075-4

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Sulfurous acid, lead salt, dibasic	62229-08-7	263-467-1
Silicic acid, lead salt	11120-22-2	234-363-3
Silicic acid (H2Si2O5), 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]	68784-75-8	272-271-5
Pyrochlore, antimony lead yellow	8012-00-8	232-382-1
Pentalead tetraoxide sulphate	12065-90-6	235-067-7
Pentacosafluorotridecanoic acid	72629-94-8	276-745-2
Orange lead (Lead tetroxide)	1314-41-6	215-235-6
o-toluidine	95-53-4	202-429-0
o-aminoazotoluene [(4-o-tolylazo-o-toluidine])	97-56-3	202-591-2
N-pentyl-isopentylphthalate	776297-69-9	-
N-methylacetamide	79-16-3	201-182-6
N,N-dimethylformamide	68-12-2	200-679-5
Methyloxirane (Propylene oxide)	75-56-9	200-879-2
Methoxyacetic acid	625-45-6	210-894-6
Lead titanium zirconium oxide	12626-81-2	235-727-4
Lead titanium trioxide	12060-00-3	235-038-9
Lead monoxide (Lead oxide)	1317-36-8	215-267-0
Lead oxide sulfate	12036-76-9	234-853-7
Lead dinitrate	10099-74-8	233-245-9
Lead cynamidate	20837-86-9	244-073-9
Lead bis(tetrafluoroborate)	13814-96-5	237-486-0
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]	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1
Heptacosafluorotetradecanoic acid	376-06-7	206-803-4
Henicosafluoroundecanoic acid	2058-94-8	218-165-4
Furan	110-00-9	203-727-3
Fatty acids, C16-18, lead salts	91031-62-8	292-966-7
Dioxobis(stearato)trilead	12578-12-0	235-702-8
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7
Dimethyl sulphate	77-78-1	201-058-1
Diisopentyl phthalate	605-50-5	210-088-4
Diethyl sulphate	64-67-5	200-589-6

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Dibutyltin dichloride (DBTC)	683-18-1	211-670-0
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8
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].	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9
Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	214-604-9
Biphenyl-4-ylamine	92-67-1	202-177-1
Acetic acid, lead salt, basic	51404-69-4	257-175-3
[Phthalato(2-)]dioxotrilead	69011-06-9	273-688-5
6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1
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]	-	-
4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1
4-aminoazobenzene	60-09-3	200-453-6
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	-
4,4'-oxydianiline and its salts	101-80-4	202-977-0
4,4'-methylenedi-o-toluidine	838-88-0	212-658-8
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7
1-bromopropane (n-propyl bromide)	106-94-5	203-445-0
1,2-diethoxyethane	629-14-1	211-076-1
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2
Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9
Dipentyl phthalate (DPP)	131-18-0	205-017-9
Cadmium oxide	1306-19-0	215-146-2
cadmium	7440-43-9	231-152-8
Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4
4-Nonylphenol, branched and linear, ethoxylated	-	-
Trixylyl phosphate	25155-23-1	246-677-8
Lead di(acetate)	301-04-2	206-104-4
Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	202-506-9
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
Disodium	573-58-0	209-358-4

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3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)		
Dihexyl phthalate	84-75-3	201-559-5
Cadmium sulphide	1306-23-6	215-147-8
Sodium peroxometaborate	7632-04-4	231-556-4
Sodium perborate; perboric acid, sodium salt	15120-21-5 11138-47-9	239-172-9; 234-390-0
Cadmium chloride	10108-64-2	233-296-7
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5
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)	---	---
Cadmium sulphate	10124-36-4; 31119-53-6	233-331-6
Cadmium fluoride	7790-79-6	232-222-0
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	239-622-4
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
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]	---	---
"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) (Di-C6-10 alkyl phthalate = Phthalate)"	"68515-51-5 68648-93-1"	"271-094-0 272-013-1"
Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	206-801-3
Nitrobenzene	98-95-3	202-716-0
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8
1,3-propanesultone	1120-71-4	214-317-9
Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	200-028-5
p-(1,1-dimethylpropyl)phenol	80-46-6	201-280-9
nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2	206-400-3

4-heptylphenol, branched and linear (4-HPbl)	-	-
4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	201-245-8
Perfluorohexane-1-sulfonic acid and its salts (PFHxS)	-	-
Benz[a]anthracene	56-55-3, 1718-53-2	200-280-6
Cadmium carbonate	513-78-0	208-168-9
Cadmium hydroxide	21041-95-2	244-168-5
Cadmium nitrate	10022-68-1, 10325-94-7	233-710-6
Chrysene	218-01-9, 1719-03-5	205-923-4
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]	-	-
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)]	-	-
Octamethylcyclotetrasiloxane (D4)	556-67-2	209-136-7
Decamethylcyclopentasiloxane (D5)	541-02-6	208-764-9
Dodecamethylcyclohexasiloxane (D6)	540-97-6	208-762-8
Lead	7439-92-1	231-100-4
Disodium octaborate	12008-41-2	234-541-0
Benzo[ghi]perylene	191-24-2	205-883-8
Terphenyl hydrogenated	61788-32-7	262-967-7
Ethylenediamine (EDA)	107-15-3	203-468-6
Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	209-008-0
dicyclohexyl phthalate (DCHP)	84-61-7	201-545-9
Pyrene	129-00-0 1718-52-1	204-927-3
Phenanthrene	85-01-8	201-581-5
Fluoranthene	206-44-0 93951-69-0	205-912-4
Benzo[k]fluoranthene	207-08-9	205-916-6
2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	401-720-1
1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor; 3-BC)	15087-24-8	239-139-9
Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	-
4-tert-butylphenol	98-54-4	202-679-0
2-methoxyethyl acetate	110-49-6	203-772-9
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides covering any of their individual isomers and combinations thereof	-	-
2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	404-360-3
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6

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Diisohexyl phthalate	71850-09-4	276-090-2
Perfluorobutane sulfonic acid (PFBS) and its salts	-	-
1-vinylimidazole	1072-63-5	214-012-0
2-methylimidazole	693-98-1	211-765-7
butyl 4-hydroxybenzoate	94-26-8	202-318-7
Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	245-152-0