CERTIFICATE

SVHC Conformance under REACH

Issuing Party	LX MMA Safety&Environment team	
Address	58, Yeosusandan-4ro, Yeosu-City, Chunranam-do, 555-805, Korea	
Certified Product(s)	- Monomer : MMA, MAA, n-BMA, i-BMA - PMMA . Optical grade : HP202, HP05, HP210, HP102, EF590 . General grade : IH830, IH830H, IH830L, IH830A, IG840, IH830C, IH830CA, IH830HF, IH830XT, IF850, IF860, IF870S, EG920, EH910, EG920UF,EG920L,EG920LUF, EF120, M200 . High impact grade : HI516, HI517,HI527, HI572, HI533, HI534, HI535, HI537, HI542, HI552, HI553, HI555, HI753,HI781, HI835MS, HI835M,HI835MU, HI835S, HI835H, HI855M,HI855S, HI855H, HI855HS,HI835HS, HC353, HC308, HC556, HC503 . Bead grade : IH830B, IH830CB, IF850B, EG920B, BA030, BA122, BA123, BA124, BA140, BA141, BA410, BA525, BA531, BA611, BN600, BN640,BN641, BA720, BN720, SF300B, HP05B,SA256 - SMMA : HX238, HX208, HX700, HX500 - IMMA : PR700, AR700	
Issued Date	June 16, 2022	
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This is to certify that all products listed above are the EU REACH regulation (EC No. 1907/2006) compliant and meet the requirements thereof.
LX MMA duly confirms that the products contain less than 0.1 % w/w of substances included in SVHC candidate list.
Thus, the products do not have any legal obligation concerning the Article of REACH regulation.

Candidate List	No.	Substance name	CAS Number	EC number	SVHC property
October. 2008	1	anthracene	120-12-7	204-371-1	PBT (article 57d)
	2	4,4'-diaminodiphenylmethane	101-77-9	202-974-4	Carcinogenic (article 57a)
	3	dibutyl phthalate(DBP)	84-74-2	201-557-4	Toxic for reproduction (article 57c
	4	cobalt dichloride	7646-79-9	231-589-4	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
	5	diarsenic pentaoxide	1303-28-2	215-116-9	Carcinogenic (article 57a)
	6	diarsenic trioxide	1327-53-3	215-481-4	Carcinogenic (article 57a)
	7	sodium dichromate	7789-12-0 10588-01-9	234-190-3	Carcinogenic, mutagenic and toxic for reproduction (articles 57a, 57b and 57c)
	8	5-tert-butyl-2,4,6-trinitro-m-xylene(musk xylene)	81-15-2	201-329-4	vPvB (article 57e)
	9	Bis(2-ethyl(hexyl)phthalate)(DEHP)	117-81-7	204-211-0	Toxic for reproduction (article 57c)
	10	hexabromocyclododecane(HBCDD)	25637-99-4	247-148-4 221-695-9	PBT (article 57d)
	11	short chain chlorinated paraffins(SCCPs)	85535-84-8	287-476-5	PBT and vPvB (articles 57 d and 57 e)
	12	bis(tributyltin)oxide(TBTO)	56-35-9	200-268-0	PBT (article 57d)

	13	lead hydrogen arsenate	7784-40-9	232-064-2	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
	14	triethyl arsenate	15606-95-8	427-700-2	Carcinogenic (article 57a)
	15	benzyl butyl phthalate(BBP)	85-68-7	201-622-7	Toxic for reproduction (article 57c)
January. 2010	16	Anthracene oil	90640-80-5	292-602-7	Carcinogenic1, PBT and vPvB (articles 57a, 57d and 57e)
	17	Anthracene oil, anthracene paste, distn, light	91995-17-4	295-278-5	Carcinogenic2, mutagenic3, PBT and vPvB (articles 57a, 57b, 57d and 57e)
	18	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	Carcinogenic2, mutagenic3, PBT and vPvB (articles 57a, 57b, 57d and 57e)
	19	Anthracene oil, anthracene-low	90640-82-7	292-604-8	Carcinogenic2, mutagenic3, PBT and vPvB (articles 57a, 57b, 57d and 57e)
	20	Anthracene oil, anthracene-paste	90640-81-6	292-603-2	Carcinogenic2, mutagenic3, PBT and vPvB (articles 57a, 57b, 57d and 57e)
	21	Coal tar pitch, hightemperature	65996-93-2	266-028-2	Carcinogenic, PBT and vPvB (articles 57a, 57d and 57e)
	22	Acrylamide	1979-06-01	201-173-7	Carcinogenic and mutagenic (articles 57 a and 57 b)
	23	2,4-Dinitrotoluene	121-14-2	204-450-0	Carcinogenic (article 57a)
	24	Diisobutyl phthalate	84-69-5	201-553-2	Toxic for reproduction (article 57c)
	25	Lead chromate	7758-97-6	231-846-0	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
	26	Lead chromate molybdate sulphate red	12656-85-8	235-759-9	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
	27	Lead sulfochromate yellow	1344-37-2	215-693-7	Carcinogenic and toxic for reproduction (articles 57 a and 57 c))
	28	Tris(2-chloroethyl)phosphate	115-96-8	204-118-5	Toxic for reproduction (article 57c)
June. 2010	29	Trichloroethylene	79-01-06	201-167-4	Carcinogenic (article 57 a)
	30	Boric acid	10043-35-3 11113-50-1	233-139-2 234-343-4	Toxic for reproduction (article 57 c)
	31	Disodium tetraborate, anhydrous	1330-43-4 12179-04-3	215-540-4	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)
	32	Tetraboron disodium heptaoxide, hydrate	12267-73-1	235-541-3	Toxic for reproduction (article 57 c)
	33	Sodium chromate	7775-11-03	231-889-5	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)
	34	Potassium chromate	7789-00-6	232-140-5	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)
	35	Ammonium dichromate	7789-09-05	232-143-1	Toxic for reproduction (article 57 c)
	36	Potassium dichromate	7778-50-9	231-906-6	Carcinogenic and mutagenic (articles 57 a and 57 b).
December. 2010	37	Cobalt(II) sulphate	10124-43-3	233-334-2	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
	38	Cobalt(II) dinitrate	10141-05-6	233-402-1	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
	39	Cobalt(II) carbonate	513-79-1	208-169-4	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
	40	Cobalt(II) diacetate	71-48-7	200-755-8	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
	41	2-Methoxyethanol	109-86-4	203-713-7	Toxic for reproduction (article 57c)
	42	2-Ethoxyethanol	110-80-5	203-804-1	Toxic for reproduction (article 57c)
	43	Chromium trioxide	1333-82-0	215-607-8	Toxic for reproduction (article 57c)
	44	Acids generated from chromium trioxide and their oligomers: -. Chromic acid	7738-94-5 13530-68-2	231-801-5 236-881-5	Carcinogenic (article 57a)
June. 2011	45	2-ethoxyethyl acetate	111-15-9	203-839-2	Toxic for reproduction (article 57c)
	46	Strontium chromate	7789-06-02	232-142-6	Carcinogenic (article 57a)
	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters(DHNUP)	68515-42-4	271-084-6	Toxic for reproduction (article 57c)
	48	Hydrazine Hydrazing hydrate	302-01-2 7803-57-8	206-114-9	Carcinogenic (article 57a)
	49	1-methyl-2-pyrrolidone	872-50-4	212-828-1	Toxic for reproduction (article 57c)
	50	1,2,3-trichloropropane	96-18-4	202-486-1	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)

	51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters(DIHP)	71888-89-6	276-158-1	Toxic for reproduction (article 57c)
December. 2011	52	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	-	-	Carcinogenic (article 57 a)
	53	Calcium arsenate	7778-44-1	231-904-5	Carcinogenic (article 57 a)
	54	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	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 (Na2O+K2O+CaO+MgO+BaO) content less or equal to 18% by weight	-	-	Carcinogenic (article 57 a)
	56	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	234-329-8	Carcinogenic (article 57 a)
	57	Lead dipicrate	6477-64-1	229-335-2	Toxic for reproduction (article 57 c)
	58	N,N-dimethylacetamide	127-19-5	204-826-4	Toxic for reproduction (article 57 c)
	59	Arsenic acid	7778-39-4	231-901-9	Carcinogenic (article 57 a)
	60	2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	Carcinogenic (article 57 a)
	61	Trilead diarsenate	3687-31-8	222-979-5	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
	62	1,2-dichloroethane	107-06-2	203-458-1	Carcinogenic (article 57 a)
	63	Pentazinc chromate octahydroxide	49663-84-5	256-418-0	Carcinogenic (article 57 a)
	64	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	500-036-1	Carcinogenic (article 57 a)
	65	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	Toxic for reproduction (article 57 c)
	66	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	205-426-2	Equivalent level of concern having probable serious effects to the environment (article 57 f)
	67	Lead diazide, Lead azide	13424-46-9	236-542-1	Toxic for reproduction (article 57 c),
	68	Phenolphthalein	77-09-08	201-004-7	Carcinogenic (article 57 a)
	69	Dichromium tris(chromate)	24613-89-6	246-356-2	Carcinogenic (article 57 a)
	70	Lead styphnate	15245-44-0	239-290-0	Carcinogenic (article 57 a)
	71	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	202-918-9	Toxic for reproduction (article 57 c)
	72	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol	6786-83-0	229-851-8	Carcinogenic (Article 57a)
	73	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	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 (β-TGIC)	59653-74-6	423-400-0	Mutagenic (Article 57b)
	75	Diboron trioxide	1303-86-2	215-125-8	Toxic for reproduction (Article 57 c)

June. 2012	76	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	Toxic for reproduction (Article 57 c)
	77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	209-218-2	Carcinogenic (Article 57a)
	78	Lead(II) bis(methanesulfonate)	17570-76-2	401-750-5	Toxic for reproduction (Article 57 c)
	79	Formamide	75-12-07	200-842-0	Toxic for reproduction (Article 57 c)
	80	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride	548-62-9	208-953-6	Carcinogenic (Article 57a)
	81	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	Carcinogenic (Article 57a)
	82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride	2580-56-5	219-943-6	Carcinogenic (Article 57a)
	83	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	219-514-3	Mutagenic (Article 57b)
	84	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5	Carcinogenic (Article 57a)
December. 2012	85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	214-604-9	PBT (Article 57 d); vPvB (Article 57 e)
	86	Pentacosafluorotridecanoic acid	72629-94-8	276-745-2	vPvB (Article 57 e)
	87	Tricosafluorododecanoic acid	307-55-1	206-203-2	vPvB (Article 57 e)
	88	Henicosafluoroundecanoic acid	2058-94-8	218-165-4	vPvB (Article 57 e)
	89	Heptacosafluorotetradecanoic acid	376-06-7	206-803-4	vPvB (Article 57 e)
	90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	Equivalent level of concern having probable serious effects to human health (Article 57 f)
	91	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	Equivalent level of concern having probable serious effects to human health (Article 57 f)
	92	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	Equivalent level of concern having probable serious effects to human health (Article 57 f)
	93	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)
	94	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)
	95	Methoxyacetic acid	625-45-6	210-894-6	Toxic for reproduction (Article 57 c)
	96	N,N-dimethylformamide	68-12-2	200-679-5	Toxic for reproduction (Article 57 c)
	97	Dibutyltin dichloride (DBTC)	683-18-1	211-670-0	Toxic for reproduction (Article 57 c)
	98	Lead monoxide (Lead oxide)	1317-36-8	215-267-0	Toxic for reproduction (Article 57 c)
	99	Orange lead (Lead tetroxide)	1314-41-6	215-235-6	Toxic for reproduction (Article 57 c)
	100	Lead bis(tetrafluoroborate)	13814-96-5	237-486-0	Toxic for reproduction (Article 57 c)
	101	Trilead bis(carbonate)dihydroxide	1319-46-6	215-290-6	Toxic for reproduction (Article 57 c)
	102	Lead titanium trioxide	12060-00-3	235-038-9	Toxic for reproduction (Article 57 c)
	103	Lead titanium zirconium oxide	12626-81-2	235-727-4	Toxic for reproduction (Article 57 c)
	104	Silicic acid, lead salt	11120-22-2	234-363-3	Toxic for reproduction (Article 57 c)
	105	Silicic acid ($H_2Si_2O_5$), 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	Toxic for reproduction (Article 57 c)
	106	1-bromopropane (n-propyl bromide)	106-94-5	203-445-0	Toxic for reproduction (Article 57 c)
	107	Methyloxirane (Propylene oxide)	75-56-9	200-879-2	Carcinogenic (Article 57a); Mutagenic (Article 57b)
	108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	Toxic for reproduction (Article 57 c)

	109	Diisopentylphthalate (DIPP)	605-50-5	210-088-4	Toxic for reproduction (Article 57 c)
	110	N-pentyl-isopentylphthalate	776297-69-9	-	Toxic for reproduction (Article 57 c)
	111	1,2-diethoxyethane	629-14-1	211-076-1	Toxic for reproduction (Article 57 c)
	112	Acetic acid, lead salt, basic	51404-69-4	257-175-3	Toxic for reproduction (Article 57 c)
	113	Lead oxide sulfate	12036-76-9	234-853-7	Toxic for reproduction (Article 57 c)
	114	[Phthalato(2-)]dioxotrilead	69011-06-9	273-688-5	Toxic for reproduction (Article 57 c)
	115	Dioxobis(stearato)trilead	12578-12-0	235-702-8	Toxic for reproduction (Article 57 c)
	116	Fatty acids, C16-18, lead salts	91031-62-8	292-966-7	Toxic for reproduction (Article 57 c)
	117	Lead cynamidate	20837-86-9	244-073-9	Toxic for reproduction (Article 57 c)
	118	Lead dinitrate	10099-74-8	233-245-9	Toxic for reproduction (Article 57 c)
	119	Pentalead tetraoxide sulphate	12065-90-6	235-067-7	Toxic for reproduction (Article 57 c)
	120	Pyrochlore, antimony lead yellow	8012-00-8	232-382-1	Toxic for reproduction (Article 57 c)
	121	Sulfurous acid, lead salt, dibasic	62229-08-7	263-467-1	Toxic for reproduction (Article 57 c)
	122	Tetraethyllead	78-00-2	201-075-4	Toxic for reproduction (Article 57 c)
	123	Tetralead trioxide sulphate	12202-17-4	235-380-9	Toxic for reproduction (Article 57 c)
	124	Trilead dioxide phosphonate	12141-20-7	235-252-2	Toxic for reproduction (Article 57 c)
	125	Furan	110-00-9	203-727-3	Carcinogenic (Article 57a)
	126	Diethyl sulphate	64-67-5	200-589-6	Carcinogenic (Article 57a); Mutagenic (Article 57b)
	127	Dimethyl sulphate	77-78-1	201-058-1	Carcinogenic (Article 57a)
	128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	Toxic for reproduction (Article 57 c)
	129	Dinoseb (6-*sec*-butyl-2,4-dinitrophenol)	88-85-7	201-861-7	Toxic for reproduction (Article 57 c)
	130	4,4'-methylenedi-*o*-toluidine	838-88-0	212-658-8	Carcinogenic (Article 57a)
	131	4,4'-oxydianiline and its salts	101-80-4	202-977-0	Carcinogenic (Article 57a); Mutagenic (Article 57b)
	132	4-aminoazobenzene	60-09-3	200-453-6	Carcinogenic (Article 57a)
	133	4-methyl-*m*-phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1	Carcinogenic (Article 57a)
	134	6-methoxy-*m*-toluidine (p-cresidine)	120-71-8	204-419-1	Carcinogenic (Article 57a)
	135	Biphenyl-4-ylamine	92-67-1	202-177-1	Carcinogenic (Article 57a)
	136	*o*-aminoazotoluene [(4-*o*-tolylazo-*o*-toluidine])	97-56-3	202-591-2	Carcinogenic (Article 57a)
	137	*o*-toluidine	95-53-4	202-429-0	Carcinogenic (Article 57a)
	138	*N*-methylacetamide	79-16-3	201-182-6	Toxic for reproduction (Article 57 c)
June 2013	139	Cadmium	7440-43-9	231-152-8	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
	140	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	Toxic for reproduction (Article 57 c); PBT (Article 57 d)
	141	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	
	142	Dipentyl phthalate (DPP)	131-18-0	205-017-9	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	1306-19-0	215-146-2	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
Decembe	145	Cadmium sulphide	1306-23-6	215-147-8	Carcinogenic(Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
	146	Dihexyl phthalate	84-75-3	201-559-5	Toxic for reproduction (Article 57 c)
	147	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	Carcinogenic (Article 57a)

Decembe 2013	148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate(C.I. Direct Black 38)	1937-37-7	217-710-3	Carcinogenic (Article 57a)
	149	Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7	202-506-9	Toxic for reproduction (Article 57 c)
	150	Lead di(acetate)	301-04-2	206-104-4	Toxic for reproduction (Article 57 c)
	151	Trixylyl phosphate	25155-23-1	246-677-8	Toxic for reproduction (Article 57 c)
June 2014	152	Cadmium chloride	10108-64-2	233-296-7	Carcinogenic(Article 57a);Mutagenic (Article 57b); Toxic for Reproduction(Article 57c); Equivalent level of concern having probable serious effects to human health (Article 57f)
	153	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5	Toxic for reproduction (Article 57c)
	154	Sodium peroxometaborate	7632-04-4	231-556-4	Toxic for reproduction (Article 57c)
	155	Sodium perborate; perboric acid, sodium salt	-	239-172-9; 234-390-0	Toxic for reproduction (Article 57c)
December 2014	156	Cadmium sulphate	10124-36-4, 31119-53-6	233-331-6	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 fluoride	7790-79-6	232-222-0	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-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	247-384-8	PBT (Article 57 d); vPvB (Article 57 e)
	159	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)
	160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	239-622-4	Toxic for reproduction (Article 57 c)
	161	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6	PBT (Article 57 d); vPvB (Article 57 e)
June 2015	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 68648-93-1	271-094-0 272-013-1	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 stereoisomers of [1] and [2] or any combination thereof]	-	-	vPvB (Article 57e)
December 2015	164	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8	206-801-3	Toxic for reproduction (Article 57 c) PBT (Article 57 d)
	165	Nitrobenzene	98-95-3	202-716-0	Toxic for reproduction (Article 57 c)
	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1	vPvB (Article 57 e)
	167	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8	vPvB (Article 57 e)
	168	1,3-propanesultone	1120-71-4	214-317-9	Carcinogenic (Article 57 a)
Jun 2016	169	Benzo[def]chrysene	50-32-8	200-028-5	Carcinogenic (Article 57a) Mutagenic (Article 57b) Toxic for reproduction (Article 57c) PBT (Article 57 d) vPvB (Article 57 e)
November 2016	170	4,4'-isopropylidenediphenol(Bisphenol A)	80-05-07	201-245-8	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - human health)
	171	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 include any of the individual isomers or a combination thereof]	-	-	Endocrine disrupting properties (Article 57(f) - environment)
	172	Nonadecafluorodecanoic acid(PFDA) and its sodium and ammonium salts	3108-42-7 335-76-2 3108-42-7	- 206-400-3 221-470-5	Toxic for reproduction (Article 57c) PBT (Article 57 d)
	173	p-(1,1-dimethylpropyl)phenol	80-46-6	201-280-9	Endocrine disrupting properties (Article 57(f) - environment)

July 2017	174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	-	-	vPvB (Article 57e)
January 2018	175	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	-	-	Endocrine disrupting properties (Article 57(f) - environment)
	176	Chrysene	218-01-9, 1719-03-5	205-923-4	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)
	177	Cadmium nitrate	10022-68-1, 10325-94-7	233-710-6	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
	178	Cadmium hydroxide	21041-95-2	244-168-5	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
	179	Cadmium carbonate	513-78-0	208-168-9	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
	180	Benz[a]anthracene	56-55-3, 1718-53-2	200-280-6	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)
	181	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™)	-	-	vPvB (Article 57e)
June 2018	182	Terphenyl, hydrogenated	262-967-7	61788-32-7	vPvB (Article 57e)
	183	Octamethylcyclotetrasiloxane	209-136-7	556-67-2	PBT (Article 57d) vPvB (Article 57e)
	184	Lead	231-100-4	7439-92-1	Toxic for reproduction (Article 57c)
	185	Ethylenediamine	203-468-6	107-15-3	Respiratory sensitising properties (Article 57(f) - human health)
	186	Dodecamethylcyclohexasiloxane	208-762-8	540-97-6	PBT (Article 57d) vPvB (Article 57e)
	187	Disodium octaborate	234-541-0	12008-41-2	Toxic for reproduction (Article 57c)
	188	Disodium octaborate	201-545-9	84-61-7	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - human health)
	189	Decamethylcyclopentasiloxane	208-764-9	541-02-6	PBT (Article 57d) vPvB (Article 57e)
	190	Benzo[ghi]perylene	205-883-8	191-24-2	PBT (Article 57d) vPvB (Article 57e)
	191	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride	209-008-0	552-30-7	Respiratory sensitising properties (Article 57(f) - human health)
January 2019	192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	401-720-1	6807-17-6	Toxic for reproduction (Article 57c)
	193	Benzo[k]fluoranthene	205-916-6	207-08-9	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)
	194	Fluoranthene	205-912-4	206-44-0	PBT (Article 57d) vPvB (Article 57e)
	195	Phenanthrene	201-581-5	85-01-8	vPvB (Article 57e)
	196	Pyrene	204-927-3	129-00-0	PBT (Article 57d) vPvB (Article 57e)
	197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	239-139-9	15087-24-8	Endocrine disrupting properties (Article 57(f) - environment)
July 2019	198	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)
	199	4-tert-butylphenol	202-679-0	98-54-4	Endocrine disrupting properties (Article 57(f) - environment)
	200	2-methoxyethyl acetate	203-772-9	110-49-6	Toxic for reproduction (Article 57c)
	201	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides	-	-	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)

January 2020	202	Perfluorobutane sulfonic acid (PFBS) and its salts			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)
	203	Diisohexyl phthalate	71850-09-4	276-090-2	Toxic for reproduction (Article 57c)
	204	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6	Toxic for reproduction (Article 57c)
	205	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	404-360-3	Toxic for reproduction (Article 57c)
June 2020	206	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	245-152-0	Toxic for reproduction (Article 57c)
	207	butyl 4-hydroxybenzoate	94-26-8	202-318-7	Endocrine disrupting properties (Article 57(f) - human health)
	208	2-methylimidazole	639-98-1	211-765-7	Toxic for reproduction (Article 57c)
	209	1-vinylimidazole	1072-63-5	214-012-0	Toxic for reproduction (Article 57c)
January 2021	210	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	205-594-7	Toxic for reproduction (Article 57c)
	211	Dioctyltin 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 dioctyltin dilaurate; stannane, dioctyl-, bis(coco acyloxy) derivs. EC No.: - | CAS No.: - Stannane, dioctyl-, bis(coco acyloxy) derivs. EC No.: 293-901-5 | CAS No.: 91648-39-4 Dioctyltin dilaurate EC No.: 222-883-3 | CAS No.: 3648-18-8	-	-	Toxic for reproduction (Article 57c)
July 2021	212	1,4-dioxane	123-91-1	204-661-8	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); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA) 3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA) EC No.: - | CAS No.: 1522-92-5 2,2-dimethylpropan-1-ol, tribromo derivative (TBNPA) EC No.: 253-057-0 | CAS No.: 36483-57-5 2,2-bis(bromomethyl)propane-1,3-diol (BMP) EC No.: 221-967-7 | CAS No.: 3296-90-0 2,3-dibromo-1-propanol (2,3-DBPA) EC No.: 202-480-9 | CAS No.: 96-13-9	-	-	Carcinogenic (Article 57a)
	214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers (2R)-3-(4-tert-butylphenyl)-2-methylpropanal EC No.: - | CAS No.: 75166-31-3 2-(4-tert-butylbenzyl)propionaldehyde EC No.: 201-289-8 | CAS No.: 80-54-6 (2S)-3-(4-tert-butylphenyl)-2-methylpropanal EC No.: - | CAS No.: 75166-30-2	-	-	Toxic for reproduction (Article 57c)
	215	4,4'-(1-methylpropylidene)bisphenol	77-40-7	201-025-1	Endocrine disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57(f) - human health)
	216	glutaral	111-30-8	203-856-5	Respiratory sensitising properties (Article 57(f) - human health)

2021	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 Alkanes, C14-16, chloro EC No.: - | CAS No.: 1372804-76-6 Alkanes, C14-17, chloro EC No.: 287-477-0 | CAS No.: 85535-85-9 di-, tri- and tetrachlorotetradecane EC No.: 950-299-5 | CAS No.: - Tetradecane, chloro derivs. EC No.: - | CAS No.: 198840-65-2	-	-	PBT (Article 57d) vPvB (Article 57e)
	218	orthoboric acid, sodium salt boric acid (H3BO3), sodium salt, hydrate EC No.: - | CAS No.: 25747-83-5 Boric acid (H3BO3), disodium salt EC No.: - | CAS No.: 22454-04-2 Trisodium orthoborate EC No.: 238-253-6 | CAS No.: 14312-40-4 Boric acid, sodium salt EC No.: 215-604-1 | CAS No.: 1333-73-9 Orthoboric acid, sodium salt EC No.: 237-560-2 | CAS No.: 13840-56-7 Boric acid (H3BO3), sodium salt (1:1) EC No.: - | CAS No.: 14890-53-0	-	-	Toxic for reproduction (Article 57c)
	219	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP) Phenol, 4-dodecyl, branched EC No.: - | CAS No.: 210555-94-5 4-isododecylphenol EC No.: - | CAS No.: 27459-10-5 Phenol, 4-isododecyl- EC No.: - | CAS No.: 27147-75-7 Phenol, dodecyl-, branched EC No.: 310-154-3 | CAS No.: 121158-58-5 Phenol, (tetrapropenyl) derivatives EC No.: - | CAS No.: 74499-35-7 Phenol, tetrapropylene- EC No.: - | CAS No.: 57427-55-1	-	-	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57(f) - human health)
January 2022	220	(±)-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) 3E)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one N° CE : - | N° CAS : 1782069-81-1 (1R,3E,4S)-1,7,7-trimethyl-3-(4- methylbenzylidene)bicyclo[2.2.1]heptan-2-one N° CE : - | N° CAS : 95342-41-9 (1S,3Z,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one N° CE : - | N° CAS : 852541-25-4 (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one N° CE : 253-242-6 | N° CAS : 36861-47-9 (1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one N° CE : - | N° CAS : 741687-98-9 (1S,3E,4R)-1,7,7-trimethyl-3-(4- methylbenzylidene)bicyclo[2.2.1]heptan-2-one N° CE : - | N° CAS : 852541-30-1 (1S,3E,4R)-1,7,7-trimethyl-3-(4- methylbenzylidene)bicyclo[2.2.1]heptan-2-one N° CE : - | N° CAS : 852541-30-1	-	-	Endocrine disrupting properties (Article 57(f) - human health)
	221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	204-327-1	Toxic for reproduction (Article 57c)
	222	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	255881-94-8	401-850-9	PBT (Article 57d)
	223	tris(2-methoxyethoxy)vinylsilane	1067-53-4	213-934-0	Toxic for reproduction (Article 57c)
June 2022	224	N-(hydroxymethyl)acrylamide	924-42-5	213-103-2	Carcinogenic (Article 57a) Mutagenic (Article 57b)

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JAE MAN LEE / Team Leader

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