



REACH Compliance Declaration

To whom it may concern,

Challenge Electronics acknowledges being producers, importers and marketers of electronic devices and certifies to the best of our knowledge all Challenge Electronics product lines do not contain elements of the 1907/2006 declaration concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) and Substances of Very High Concern (SVHC) and all accompanying Annexes. An exemption is in place for piezoelectric indicators and transducers which contain Lead Zirconate Titanate (PZT) Ceramics with more than 0.1% (w/w) of REACH Candidate List SVHC Lead-Zirconium-Titanium-Oxide (CAS 12626-81-2), which is a key ingredient of the Piezoelectric-Ceramic-Disc in alarm operation and allowed under the Article 4(1): 7(c)-I exemption from 2011/65/EU Annex III.

However, certain products requiring high temperature conditions have been initially designed prior to establishment of the accompanying SVHC restriction and as such are incorporated in designs. The chemical used is Lead, CAS number 7439-21-1. Challenge Electronics does its best to offer designs not incorporating the problem chemical and can offer crosses to all parts which contain the chemical. The only current PNs which affected by this concern are SMD Electromagnetic/Piezoelectric Indicators/Transducers of PNs per the below table.

Part Type	Part Number
SMD Electromagnetic Transducer	CEET128N071-16-205-24PLR
SMD Electromagnetic Transducer	CEET105A025-16-2545-27MLR
SMD Electromagnetic Transducer	CT8ES-06273-1
SMD Piezoelectric Transducer	CEPT22S048-125-20MR
SMD Piezoelectric Transducer	CEPT090L019-125-40MR
SMD Piezoelectric Transducer	CPT24GS12-3.0-P3R
SMD Piezoelectric Transducer	CSPT22A12-4.0
SMD Piezoelectric Indicator	CEPB143N072-316C40MR

To obtain a cross to a part which does not contain Lead, please contact your local Challenge Electronics sales representative. All other parts are fully compliant as per the above and all future part recommendations are made to parts which are fully compliant.

The statements in this letter regarding REACH and the accompanying Substances of Very High Concern (SVHC) List and Annexes do not extend to, or apply to any product subjected to unintended contamination, misuse, neglect, accident, improper installation, or used in violation of Challenge Electronics recommendations. The statement is made to the best of our knowledge based on supplier certifications, confirmations and independent testing. All enquiries related to REACH and SVHCs could be sent to our Compliance Coordinator and Engineering Director, Joshua Klyman, by e-mail at jklyman@challelec.com.

Joshua Klyman
Engineering Director
02/4/22



REACH SVHC List: 223 Substances

ECHA Source: <http://echa.europa.eu/candidate-list-table>

More Info: <http://www.chemsafetypro.com>

	Name	EC Number	CAS Number	Date of inclusion
1	tris(2-methoxyethoxy)vinylsilane	213-934-0	1067-53-4	01/17/2022
2	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	201-850-9	255881-94-8	01/17/2022
3	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	204-327-1	119-47-1	01/17/2022
4	(±)-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)	-	-	01/17/2022
5	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	-	07/08/2021
6	orthoboric acid, sodium salt	-	-	07/08/2021
7	Medium-chain chlorinated paraffins (MCCP)	-	-	07/08/2021
8	glutaral	203-856-5	111-30-8	07/08/2021
9	4,4'-(1-methylpropylidene)bisphenol	201-025-1	77-40-7	07/08/2021
10	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	-	07/08/2021
11	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)	-	-	07/08/2021
12	1,4-dioxane	204-661-8	123-91-1	07/08/2021
13	Bis(2-(2-methoxyethoxy)ethyl)ether	205-594-7	143-24-8	01/19/2021
14	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	-	-	01/19/2021
15	Dibutylbis(pentane-2,4-dionato-O,O')tin	245-152-0	22673-19-4	06/25/2020
16	Butyl 4-hydroxybenzoate	202-318-7	94-26-8	06/25/2020
17	2-methylimidazole	211-765-7	693-98-1	06/25/2020
18	1-vinylimidazole	214-012-0	1072-63-5	06/25/2020
19	Perfluorobutane sulfonic acid (PFBS) and its salts	-	-	01/16/2020
20	Diisohexyl phthalate	276-090-2	71850-09-4	01/16/2020
21	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	400-600-6	71868-10-5	01/16/2020
22	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	404-360-3	119313-12-1	01/16/2020
23	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides	-	-	07/16/2019
24	2-methoxyethyl acetate	203-772-9	110-49-6	07/16/2019
25	4-tert-butylphenol	202-679-0	98-54-4	07/16/2019
26	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	-	07/16/2019
27	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	239-139-9	15087-24-8	01/15/2019
28	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	401-720-1	6807-17-6	01/15/2019
29	Benzo[k]fluoranthene	205-916-6	207-08-9	01/15/2019
30	Fluoranthene	205-912-4	206-44-0; 93951-69-0	01/15/2019
31	Phenanthrene	201-581-5	85-01-8	01/15/2019
32	Pyrene	204-927-3	129-00-0; 1718-52-1	01/15/2019
33	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride)(TMA)	209-008-0	552-30-7	06/27/2018
34	Benzo[ghi]perylene	205-883-8	191-24-2	06/27/2018
35	Decamethylcyclopentasiloxane (D5)	208-764-9	541-02-6	06/27/2018
36	Dicyclohexyl Phthalate (DCHP)	201-545-9	84-61-7	06/27/2018
37	Disodium Octaborate	234-541-0	12008-41-2	06/27/2018
38	Dodecamethylcyclohexasiloxane (D6)	208-762-8	240-97-6	06/27/2018
39	Ethylenediamine (EDA)	203-468-6	107-15-3	06/27/2018
40	Lead	231-100-4	7439-21-1	06/27/2018
41	Octamethylcyclotetrasiloxane (D4)	209-136-7	556-67-2	06/27/2018
42	Terphenyl, Hydrogenated	262-967-7	61788-32-7	06/27/2018
43	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"™)	-	-	01/15/2018
44	Benz[a]anthracene	200/280-6	56-55-3, 1718-53-2	01/15/2018
45	Cadmium carbonate	208-168-9	513-78-0	01/15/2018
46	Cadmium hydroxide	244-168-5	21041-95-2	01/15/2018
47	Cadmium nitrate	233-710-6	10022-68-1, 10325-94-7	01/15/2018
48	Chrysene	205-923-4	218-01-9, 1719-03-5	01/15/2018
49	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	-	-	01/15/2018
50	Perfluorohexane-1-sulfonic acid and its salts (PFHxS)	-	-	07/07/2017
51	4,4'-isopropylidenediphenol (Bisphenol A; BPA)	201-245-8	80-05-7	12/01/2017
52	nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	206-400-3	335-76-2	12/01/2017
53	4-heptylphenol, branched and linear (4-HPbl)	-	-	12/01/2017
54	p-(1,1-dimethylpropyl)phenol (PTAP)	201-280-9	80-46-6	12/01/2017
55	Benzo[def]chrysene	200-028-5	50-32-8	06/20/2016
56	Nitrobenzene	202-716-0	98-95-3	12/17/2015
57	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1	12/17/2015
58	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3	12/17/2015
59	1,3-propanesultone	214-317-9	1120-71-4	12/17/2015
60	Perfluorononan-1-oic-acid and its sodium and ammonium salts	206-801-3	375-95-1, 21049-39-8, 4149-60-4	12/17/2015



61	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 (EC No. 201-559-5)	271-094-0, 272-013-1	68515-51-5, 68648-93-1	6/15/2015
62	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]	-	-	6/15/2015
63	Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0	117-81-7	12/17/2014 - 10/28/2008
64	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1	12/17/2014
65	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7	12/17/2014
66	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-622-4	15571-58-1	12/17/2014
67	Cadmium fluoride	232-222-0	7790-79-6	12/17/2014
68	Cadmium sulphate	233-331-6	10124-36-4, 31119-53-6	12/17/2014
69	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)	-	-	12/17/2014
70	1,2-Benzenedicarboxylic acid, dihexylester, branched and linear	271-093-5	68515-50-4	6/16/2014
71	Cadmium chloride	233-296-7	10108-64-2	6/16/2014
72	Sodium perborate, perboric acid, sodium salt	239-172-9, 234-390-0		6/16/2014
73	Sodium peroxometaborate	231-556-4	7632-4-4,	6/16/2014
74	Cadmium sulphide	215-147-8	1306-23-6	12/16/2013
75	Dihexyl phthalate	201-559-5	84-75-3	12/16/2013
76	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	209-358-4	573-58-0	12/16/2013
77	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)	217-710-3	1937-37-7	12/16/2013
78	Imidazolidine-2-thione (2-imidazoline-2-thiol)	202-506-9	96-45-7	12/16/2013
79	Lead di(acetate)	206-104-4	301-04-2	12/16/2013
80	Trixylyl phosphate	246-677-8	25155-23-1	12/16/2013
81	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]	-	-	6/20/2013
82	Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1	6/20/2013
83	Cadmium	231-152-8	7440-43-9	6/20/2013
84	Cadmium oxide	215-146-2	1306-19-0	6/20/2013
85	Dipentyl phthalate (DPP)	205-017-9	131-18-0	6/20/2013
86	Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1	6/20/2013
87	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0	12/19/2012
88	1,2-Diethoxyethane	211-076-1	629-14-1	12/19/2012
89	1-bromopropane (n-propyl bromide)	203-445-0	106-94-5	12/19/2012
90	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2	12/19/2012
91	4,4'-methylenedi-o-toluidine	212-658-8	838-88-0	12/19/2012
92	4,4'-oxydianiline and its salts	202-977-0	101-80-4	12/19/2012
93	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	-	12/19/2012
94	4-Aminoazobenzene	200-453-6	60-09-3	12/19/2012
95	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7	12/19/2012
96	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]	-	-	12/19/2012
97	6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8	12/19/2012
98	[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9	12/19/2012
99	Acetic acid, lead salt, basic	257-175-3	51404-69-4	12/19/2012
100	Biphenyl-4-ylamine	202-177-1	92-67-1	12/19/2012
101	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	214-604-9	1163-19-5	12/19/2012
102	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]	201-604-9, 236-086-3, 238-009-9	85-42-7, 13149-00-3, 14166-21-3	12/19/2012
103	Diazeno-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	204-650-8	123-77-3	12/19/2012
104	Dibutyltin dichloride (DBTC)	211-670-0	683-18-1	12/19/2012
105	Diethyl sulphate	200-589-6	64-67-5	12/19/2012
106	Diisopentylphthalate	210-088-4	605-50-5	12/19/2012
107	Dimethyl sulphate	201-058-1	77-78-1	12/19/2012
108	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7	12/19/2012
109	Dioxobis(stearato)trilead	235-702-8	12578-12-0	12/19/2012
110	Fatty acids, C16-18, lead salts	292-966-7	91031-62-8	12/19/2012
111	Furan	203-727-3	110-00-9	12/19/2012
112	Henicosafuoroundecanoic acid	218-165-4	2058-94-8	12/19/2012
113	Heptacosafuorotetradecanoic acid	206-803-4	376-06-7	12/19/2012
114	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]	247-094-1, 243-072-0, 256-356-4, 260-566-1	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	12/19/2012
115	Lead bis(tetrafluoroborate)	237-486-0	13814-96-5	12/19/2012
116	Lead cyanamide	244-073-9	20837-86-9	12/19/2012
117	Lead dinitrate	233-245-9	10099-74-8	12/19/2012



118	Lead monoxide (lead oxide)	215-267-0	1317-36-8	12/19/2012
119	Lead oxide sulfate	234-853-7	12036-76-9	12/19/2012
120	Lead titanium trioxide	235-038-9	12060-00-3	12/19/2012
121	Lead titanium zirconium oxide	235-727-4	12626-81-2	12/19/2012
122	Methoxyacetic acid	210-894-6	625-45-6	12/19/2012
123	Methyloxirane (Propylene oxide)	200-879-2	75-56-9	12/19/2012
124	N,N-dimethylformamide	200-679-5	68-12-2	12/19/2012
125	N-methylacetamide	201-182-6	79-16-3	12/19/2012
126	N-pentyl-isopentylphthalate		776297-69-9	12/19/2012
127	o-aminoazotoluene	202-591-2	97-56-3	12/19/2012
128	o-Toluidine	202-429-0	95-53-4	12/19/2012
129	Orange lead (lead tetroxide)	215-235-6	1314-41-6	12/19/2012
130	Pentacosafuorotridecanoic acid	276-745-2	72629-94-8	12/19/2012
131	Pentalead tetraoxide sulphate	235-067-7	12065-90-6	12/19/2012
132	Pyrochlore, antimony lead yellow	232-382-1	8012-00-8	12/19/2012
133	Silicic acid (H₂SiO₅), 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]	272-271-5	68784-75-8	12/19/2012
134	Silicic acid, lead salt	234-363-3	11120-22-2	12/19/2012
135	Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7	12/19/2012
136	Tetraethyllead	201-075-4	78-00-2	12/19/2012
137	Tetralead trioxide sulphate	235-380-9	12202-17-4	12/19/2012
138	Tricosafuorodecanoic acid	206-203-2	1303-55-1	12/19/2012
139	Trilead bis(carbonate) dihydroxide	215-290-6	1319-46-6	12/19/2012
140	Trilead dioxide phosphonate	235-252-2	12141-20-7	12/19/2012
141	1,2-bis(2-methoxyethoxy)ethane (TEGDME, triglyme)	203-977-3	112-49-2	6/18/2012
142	1,2-dimethoxyethane, ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4	6/18/2012
143	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazine-2,4,6-trione (TGIC)	219-514-3	2451-62-9	6/18/2012
144	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	423-400-0	59653-74-6	6/18/2012
145	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)]	209-218-2	561-41-1	6/18/2012
146	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8	6/18/2012
147	[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)]	208-953-6	548-62-9	6/18/2012
148	[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)]	219-943-6	2580-56-5	6/18/2012
149	Diboron trioxide	215-125-8	1303-86-2	6/18/2012
150	Formamide	200-842-0	75-12-7	6/18/2012
151	Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2	6/18/2012
152	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1	6/18/2012
153	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)]	229-851-8	6786-83-0	6/18/2012
154	1,2-Dichloroethane	203-458-1	107-06-2	12/19/2011
155	2,2'-dichloro-4,4'-methylenedianiline	202-918-9	101-14-4	12/19/2011
156	2-Methoxyaniline, o-Anisidine	201-963-1	90-04-0	12/19/2011
157	4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9	12/19/2011
158	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 ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight	-	-	12/19/2011
159	Arsenic acid	231-901-9	7778-39-4	12/19/2011
160	Bis(2-methoxyethyl) ether	203-924-4	111-96-6	12/19/2011
161	Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	12/19/2011
162	Calcium arsenate	231-904-5	7778-44-1	12/19/2011
163	Dichromium tris(chromate)	246-356-2	24613-89-6	12/19/2011
164	Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4	12/19/2011
165	Lead diazide, Lead azide	236-542-1	13424-46-9	12/19/2011
166	Lead dipicrate	229-335-2	6477-64-1	12/19/2011
167	Lead styphnate	239-290-0	15245-44-0	12/19/2011
168	N,N-dimethylacetamide	204-826-4	127-19-5	12/19/2011
169	Pentazinc chromate octahydroxide	256-418-0	49663-84-5	12/19/2011
170	Phenolphthalein	201-004-7	77-09-8	12/19/2011
171	Potassium hydroxyoctaoxodizincatedichromate	234-329-8	11103-86-9	12/19/2011
172	Trilead diarsenate	222-979-5	3687-31-8	12/19/2011
173	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	-	-	12/19/2011



Challenge Electronics

95 E. Jefryn Blvd
Deer Park, NY 11729
Tel: 1-800-722-8197

Revision Date: 2/4/2022
Revision #: 8

	micrometers (µm). c) alkaline oxide and alkali earth oxide (Na ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight			
174	Cobalt dichloride	231-589-4	7646-79-9	2011/06/20, 2008/10/28
175	1,2,3-trichloropropane	202-486-1	96-18-4	6/20/2011
176	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6	6/20/2011
177	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4	6/20/2011
178	1-Methyl-2-pyrrolidone (NMP)	212-828-1	872-50-4	6/20/2011
179	2-Ethoxyethyl acetate	203-839-2	111-15-9	6/20/2011
180	Hydrazine	206-114-9	302-01-2, 7803-57-8	6/20/2011
181	Strontium chromate	232-142-6	7789-6-2,	6/20/2011
182	2-Ethoxyethanol	203-804-1	110-80-5	12/15/2010
183	2-Methoxyethanol	203-713-7	109-86-4	12/15/2010
184	Acids generated from chromium trioxide and their oligomers. Names of the acids and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid.	231-801-5, 236-881-5	7738-94-5, 13530-68-2	12/15/2010
185	Chromium trioxide	215-607-8	1333-82-0	12/15/2010
186	Cobalt(II) carbonate	208-169-4	513-79-1	12/15/2010
187	Cobalt(II) diacetate	200-755-8	71-48-7	12/15/2010
188	Cobalt(II) dinitrate	233-402-1	10141-05-6	12/15/2010
189	Cobalt(II) sulphate	233-334-2	10124-43-3	12/15/2010
190	Ammonium dichromate	232-143-1	7789-9-5,	6/18/2010
191	Boric acid	233-139-2, 234-343-4	10043-35-3, 11113-50-1	6/18/2010
192	Disodium tetraborate, anhydrous	215-540-4	1303-96-4, 1330-43-4, 12179-04-3	6/18/2010
193	Potassium chromate	232-140-5	7789-00-6	6/18/2010
194	Potassium dichromate	231-906-6	7778-50-9	6/18/2010
195	Sodium chromate	231-889-5	7775-11-3,	6/18/2010
196	Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1	6/18/2010
197	Trichloroethylene	201-167-4	79-01-6	6/18/2010
198	Acrylamide	201-173-7	79-06-1	3/30/2010
199	2,4-Dinitrotoluene	204-450-0	121-14-2	1/13/2010
200	Anthracene oil	292-602-7	90640-80-5	1/13/2010
201	Anthracene oil, anthracene paste	292-603-2	90640-81-6	1/13/2010
202	Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2	1/13/2010
203	Anthracene oil, anthracene paste, distn. lights	295-278-5	91995-17-4	1/13/2010
204	Anthracene oil, anthracene-low	292-604-8	90640-82-7	1/13/2010
205	Diisobutyl phthalate	201-553-2	84-69-5	1/13/2010
206	Lead chromate	231-846-0	7758-97-6	1/13/2010
207	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8	1/13/2010
208	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2	1/13/2010
209	Pitch, coal tar, high temp.	266-028-2	65996-93-2	1/13/2010
210	Tris(2-chloroethyl)phosphate	204-118-5	115-96-8	1/13/2010
211	4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9	10/28/2008
212	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	201-329-4	81-15-2	10/28/2008
213	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8	10/28/2008
214	Anthracene	204-371-1	120-12-7	10/28/2008
215	Benzyl butyl phthalate (BBP)	201-622-7	85-68-7	10/28/2008
216	Bis(tributyltin) oxide (TBTO)	200-268-0	56-35-9	10/28/2008
217	Diarsenic pentaoxide	215-116-9	1303-28-2	10/28/2008
218	Diarsenic trioxide	215-481-4	1327-53-3	10/28/2008
219	Dibutyl phthalate (DBP)	201-557-4	84-74-2	10/28/2008
220	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	247-148-4, 221-695-9	25637-99-4, 3194-55-6, 134237-50-6, 134237-51-7, 134237-52-8	10/28/2008
221	Lead hydrogen arsenate	232-064-2	7784-40-9	10/28/2008
222	Sodium dichromate	234-190-3	7789-12-0, 10588-01-9	10/28/2008
223	Triethyl arsenate	427-700-2	15606-95-8	10/28/2008

The information contained in this letter is being provided for informational purposes only and to clarify certain information concerning Challenge Electronics products. Nothing provided in this letter is:

- (i) a representation, warranty or agreement to indemnification by Challenge Electronics
- (ii) a statement which may form the basis of reliance by Challenge Electronics

a modification of any of the terms and conditions of sale agreed to in writing between Challenge Electronics and its customers with respect to any Challenge Electronics products, whether previously sold or to be sold in the future.