



Pulse has on-going initiatives to comply with the registration evaluation, authorization, and restriction of chemical (REACH) regulation under EC 1907/2006. Pulse as a supplier of article, hereby declares, to date, that feedback from suppliers indicates that the candidate list of the substances of very high concern (SVHC) as shown in the table below are not over 0.1% threshold by weight of the article in Pulse Power and Network products.

	Substance name	EC No.	CAS No.	Date of inclusion
1	4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9	28.10.2008
2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	201-329-4	81-15-2	28.10.2008
3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8	28.10.2008
4	Anthracene	204-371-1	120-12-7	28.10.2008
5	Benzyl butyl phthalate (BBP)	201-622-7	85-68-7	28.10.2008
6	Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0	117-81-7	28.10.2008
7	Bis(tributyltin)oxide (TBTO)	200-268-0	56-35-9	28.10.2008
8	Cobalt dichloride	231-589-4	7646-79-9	28.10.2008
9	Diarsenic pentaoxide	215-116-9	1303-28-2	28.10.2008
10	Diarsenic trioxide	215-481-4	1327-53-3	28.10.2008
11	Dibutyl phthalate (DBP)	201-557-4	84-74-2	28.10.2008
12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	247-148-4 and 221-695-9 (134237-50-6) (134237-51-7) (134237-52-8)	25637-99-4	28.10.2008
13	Lead hydrogen arsenate	232-064-2	7784-40-9	28.10.2008
14	Sodium dichromate	234-190-3 (7789-12-0 and 10588-01-9)	7789-12-0/ 10588-01-9	28.10.2008
15	Triethyl arsenate	427-700-2	15606-95-8	28.10.2008

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1	2,4-Dinitrotoluene	204-450-0	121-14-2	13.01.2010
2	Anthracene oil	292-602-7	90640-80-5	13.01.2010
3	Anthracene oil, anthracene-low	292-604-8	90640-82-7	13.01.2010
4	Anthracene oil, anthracene paste	292-603-2	90640-81-6	13.01.2010
5	Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2	13.01.2010
6	Anthracene oil, anthracene paste, distn. lights	295-278-5	91995-17-4	13.01.2010
7	Diisobutyl phthalate	201-553-2	84-69-5	13.01.2010
8	Lead chromate	231-846-0	7758-97-6	13.01.2010
9	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8	13.01.2010
10	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2	13.01.2010
11	Pitch, coal tar, high temp.	266-028-2	-	13.01.2010
12	Tris(2-chloroethyl)phosphate	204-118-5	115-96-8	13.01.2010

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1	Acrylamide	201-173-7	79-06-1	30.03.2010

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1	Trichloroethylene	201-167-4	79-01-6	18.06.2010
2	Boric acid	233-139-2 / 234-343-4	10043-35-3 / 11113-50-1	18.06.2010
3	Disodium tetraborate, anhydrous	215-540-4	1303-96-4/ 1330-43-4/ 12179-04-3	18.06.2010
4	Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1	18.06.2010
5	Potassium dichromate	231-906-6	7778-50-9	18.06.2010
6	Ammonium dichromate	232-143-1	9/5/7789	18.06.2010
7	Potassium chromate	232-140-5	7789-00-6	18.06.2010
8	Sodium chromate	231-889-5	11/3/7775	18.06.2010

	Substance name	EC No.	CAS No.	Date of inclusion
1	Cobalt(II) sulphate	233-334-2	10124-43-3	15.12.2010
2	Cobalt(II) dinitrate	233-402-1	10141-05-6	15.12.2010
3	Cobalt(II) carbonate	208-169-4	513-79-1	15.12.2010
4	Cobalt(II) diacetate	200-755-8	71-48-7	15.12.2010
5	2-Methoxyethanol	203-713-7	109-86-4	15.12.2010
6	2-Ethoxyethanol	203-804-1	110-80-5	15.12.2010
7	Chromium trioxide	215-607-8	1333-82-0	15.12.2010
8	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid	231-801-5 - 236-881-5	7738-94-5 - 13530-68-2	15.12.2010

	Substance name	EC No.	CAS No.	Date of inclusion
1	2-Ethoxyethyl acetate	203-839-2	111-15-9	20.06.2011
2	Strontium chromate	232-142-6	7789-06-2	20.06.2011
3	1,2-Benzenedicarboxylic acid,di-C7-11-branched and linear alkyl esters(DHNUP)	271-084-6	68515-42-4	20.06.2011
4	Hydrazine	206-114-9	302-01-2 7803-57-8	20.06.2011
5	1-methyl-2-pyrrolidone	212-828-1	872-50-4	20.06.2011
6	1,2,3-trichloropropane	202-486-1	96-18-4	20.06.2011
7	1,2-Benzenedicarboxylic acid,di-C6-8-branched alkyl esters,C7-rich(DIHP)	276-158-1	71888-89-6	20.06.2011

	Substance name	EC No.	CAS No.	Date of inclusion
1	Lead styphnate	239-290-0	15245-44-0	19.12.2011
2	Lead diazide, Lead azide	236-542-1	13424-46-9	19.12.2011
3	Lead dipicrate	229-335-2	6477-64-1	19.12.2011
4	Phenolphthalein	201-004-7	77-09-8	19.12.2011
5	2,2'-Dichloro-4,4'-methylenedianiline	202-918-9	101-14-4	19.12.2011
6	N,N-dimethylacetamide	204-826-4	127-19-5	19.12.2011
7	Trilead diarsenate	222-979-5	3687-31-8	19.12.2011
8	Calcium arsenate	231-904-5	7778-44-1	19.12.2011
9	Arsenic acid	231-901-9	7778-39-4	19.12.2011
10	Bis(2-methoxyethyl) ether	203-924-4	111-96-6	19.12.2011
11	1,2-Dichloroethane	203-458-1	107-06-2	19.12.2011
12	4-(1,1,3,3-Tetramethylbutyl)phenol; 4-tert-octyl phenol	205-426-2	140-66-9	19.12.2011
13	2-Methoxyaniline; o-Anisidine	201-963-1	90-04-0	19.12.2011
14	Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	19.12.2011
15	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	500-036-1	25214-70-4	19.12.2011
16	Zirconia Aluminosilicate Refractory Ceramic Fibres*	-	-	19.12.2011
17	Aluminosilicate Refractory Ceramic Fibres*	-	-	19.12.2011
18	Pentazinc chromate octahydroxide	256-418-0	49663-84-5	19.12.2011
19	Potassium hydroxyoctaoxodizincatedichromate	234-329-8	11103-86-9	19.12.2011
20	Dichromium tris(chromate)	246-356-2	24613-89-6	19.12.2011

	Substance name	EC No.	CAS No.	Date of inclusion
1	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	203-977-3	112-49-2	18.06.2012
2	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4	18.06.2012
3	Diboron trioxide	215-125-8	1303-86-2	18.06.2012
4	Formamide	200-842-0	75-12-7	18.06.2012
5	Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2	18.06.2012
6	1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (TGIC)	219-514-3	2451-62-9	18.06.2012
7	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	18.06.2012
8	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8	18.06.2012

9	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1	18.06.2012
10	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	219-943-6	2580-56-5	18.06.2012
11	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	208-953-6	548-62-9	18.06.2012
12	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	209-218-2	561-41-1	18.06.2012
13	α,α -Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	229-851-8	6786-83-0	18.06.2012

	<u>Substance name</u>	<u>EC No.</u>	<u>CAS No.</u>	<u>Date of inclusion</u>
1	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	214-604-9	1163-19-5	19.12.2012
2	Pentacosafuorotridecanoic acid	276-745-2	72629-94-8	19.12.2012
3	Tricosafuorododecanoic acid	206-203-2	307-55-1	19.12.2012
4	Henicosafuoroundecanoic aci	218-165-4	2058-94-8	19.12.2012
5	Heptacosafuorotetradecanoic acid	206-803-4	376-06-7	19.12.2012
6	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated <i>[covering well-defined substances and UVCB substances, polymers and homologues]</i>	-	-	19.12.2012
7	4-Nonylphenol, branched and linear <i>[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]</i>	-	-	19.12.2012
8	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	204-650-8	123-77-3	19.12.2012
9	Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] <i>[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]</i>	201-604-9 236-086-3 238-009-9	85-42-7 13149-00-3 14166-21-3	19.12.2012
10	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	247-094-1 243-072-0 256-356-4 260-566-1	25550-51-0 19438-60-9 48122-14-1 57110-29-9	19.12.2012
11	Methoxyacetic acid	210-894-6	625-45-6	19.12.2012
12	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0	19.12.2012
13	Diisopentylphthalate (DIPP)	210-088-4	605-50-5	19.12.2012
14	N-pentyl-isopentylphthalate	-	776297-69-9	19.12.2012
15	1,2-Diethoxyethane	211-076-1	629-14-1	19.12.2012
16	N,N-dimethylformamide	200-679-5	68-12-2	19.12.2012
17	Dibutyltin dichloride (DBTC)	211-670-0	683-18-1	19.12.2012

18	Acetic acid, lead salt, basic	257-175-3	51404-69-4	19.12.2012
19	Trilead bis(carbonate)dihydroxide	215-290-6	1319-46-6	19.12.2012
20	Lead oxide sulfate	234-853-7	12036-76-9	19.12.2012
21	[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9	19.12.2012
22	Dioxobis(stearato)trilead	235-702-8	12578-12-0	19.12.2012
23	Fatty acids, C16-18, lead salts	292-966-7	91031-62-8	19.12.2012
24	Lead bis(tetrafluoroborate)	237-486-0	13814-96-5	19.12.2012
25	Lead cyanamate	244-073-9	20837-86-9	19.12.2012
26	Lead dinitrate	233-245-9	10099-74-8	19.12.2012
27	Lead monoxide (lead oxide)	215-267-0	1317-36-8	19.12.2012
28	Orange lead (lead tetroxide)	215-235-6	1314-41-6	19.12.2012
29	Lead titanium trioxide	235-038-9	12060-00-3	19.12.2012
30	Lead titanium zirconium oxide	235-727-4	12626-81-2	19.12.2012
31	Pentalead tetraoxide sulphate	235-067-7	12065-90-6	19.12.2012
32	Pyrochlore, antimony lead yellow	232-382-1	8012-00-8	19.12.2012
33	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped	272-271-5	68784-75-8	19.12.2012
34	Silicic acid, lead salt	234-363-3	11120-22-2	19.12.2012
35	Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7	19.12.2012
36	Tetraethyllead	201-075-4	78-00-2	19.12.2012
37	Tetralead trioxide sulphate	235-380-9	12202-17-4	19.12.2012
38	Trilead dioxide phosphonate	235-252-2	12141-20-7	19.12.2012
39	Furan	203-727-3	110-00-9	19.12.2012
40	Methyloxirane (Propylene oxide)	200-879-2	75-56-9	19.12.2012
41	Diethyl sulphate	200-589-6	64-67-5	19.12.2012
42	Dimethyl sulphate	201-058-1	77-78-1	19.12.2012
43	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2	19.12.2012
44	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7	19.12.2012
45	4,4'-methylenedi-o-toluidine	212-658-8	838-88-0	19.12.2012
46	4,4'-oxydianiline and its salts	202-977-0	101-80-4	19.12.2012
47	4-Aminoazobenzene	200-453-6	60-09-3	19.12.2012
48	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7	19.12.2012
49	6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8	19.12.2012
50	Biphenyl-4-ylamine	202-177-1	92-67-1	19.12.2012
51	o-aminoazotoluene	202-591-2	97-56-3	19.12.2012
52	o-Toluidine	202-429-0	95-53-4	19.12.2012
53	N-methylacetamide	201-182-6	79-16-3	19.12.2012
54	1-bromopropane(n-propyl bromide)	203-445-0	106-94-5	19.12.2012
54	1-bromopropane(n-propyl bromide)	203-445-0	106-94-5	19.12.2012

	<u>Substance name</u>	<u>EC No.</u>	<u>CAS No.</u>	<u>Date of inclusion</u>
1	Cadmium	231-152-8	7440-43-9	20.06.2013

2	Cadmium oxide	215-146-2	1306-19-0	20.06.2013
3	Dipentyl phthalate(DPP)	205-017-9	131-18-0	20.06.2013
4	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]	-	-	20.06.2013
5	Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1	20.06.2013
6	Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1	20.06.2013

	Substance name	EC No.	CAS No.	Date of inclusion
1	Cadmium sulphide	215-147-8	1306-23-6	16.12.2013
2	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	16.12.2013
3	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	16.12.2013
4	Dihexyl phthalate	201-559-5	84-75-3	16.12.2013
5	Imidazolidine-2-thione (2-imidazoline-2-thiol)	202-506-9	96-45-7	16.12.2013
6	Lead di(acetate)	206-104-4	301-04-2	16.12.2013
7	Trixylyl phosphate	246-677-8	25155-23-1	16.12.2013

	Substance name	EC No.	CAS No.	Date of inclusion
1	Cadmium chloride	233-296-7	10108-64-2	16.06.2014
2	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4	16.06.2014
3	Sodium peroxometaborate	231-556-4	7632-04-4	16.06.2014
4	Sodium perborate; perboric acid, sodium salt	239-172-9; 234-390-0	-	16.06.2014

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