



REACH Certificate of Compliance

Adam Tech fully supports and hereby certifies complete conformance to the requirements of REACH's 174 SVHC (Substances of Very High Concern), the European Community Regulation standard about chemicals and their safe use (EC 1907/2006) which is a new law entered into force on 1 June 2007 which will be phased in until year 2018.

Adam Tech is committed to providing safe products consistent with the improvement and protection of human health and the environment through the better and earlier identification of the intrinsic properties of chemical substances.

Adam Tech currently conforms up to July 7th 2017 **Amendment Q** and will continue to conform to the requirements of REACH as new amendments are released. Specifically, the below listed chemical substances are not present in our products for quantities totaling over one ton per producer a year, and are not present above a concentration of 0.1% by weight.

No.	Substance Name	CAS NO.	Not Used	Inclusion	Date of Inclusion
1	Anthracene	120-12-7	■	https://echa.europa.eu/documents/10162/143cd93d-ee58-40c1-b0f1-3713cbb11535	10/28/2008
2	4,4'-Diaminodiphenylmethane	101-77-9	■	https://echa.europa.eu/documents/10162/68f50f10-f55f-40be-9d1b-4fbbfdec7f96	10/28/2008
3	Benzyl butyl phthalate	85-68-7	■	https://echa.europa.eu/documents/10162/7cad31ee-4818-4166-9212-b39ca33240bb	10/28/2008
4	Bis(2-ethyl(hexyl)pphthalate)(DEHP)	117-81-7	■	https://echa.europa.eu/documents/10162/30b654ce-1de3-487a-8696-e05617c3173b	10/28/2008
5	Dibutyl phthalate	84-74-2	■	https://echa.europa.eu/docu	10/28/2008

				ments/10162/d33fd29e-5170-440f-8c16-10ecd87cf472	
6	Cobalt dichloride	7646-79-9	■	https://echa.europa.eu/documents/10162/5633d67c-a61b-4bab-b6c5-c4a61cc99e00 https://echa.europa.eu/documents/10162/39173d0d-3258-4f23-ab18-a586bcb39567	10/28/2008 6/20/2011
7	Sodium dichromate, dehydrate	7789-12-0	■	https://echa.europa.eu/documents/10162/0594aba7-e06e-45bd-807d-3eb9bd74024c	10/28/2008
8	Lead hydrogen arsenate	7784-40-9	■	https://echa.europa.eu/documents/10162/ebdb28e4-ea63-4f11-8b2e-c299ad5ebd07	10/28/2008
9	Diarsenic pentaoxide	1303-28-2	■	https://echa.europa.eu/documents/10162/7b11c857-a72d-4a8b-9efb-68d99ead7902	10/28/2008
10	Triethyl arsenate	15606-95-8	■	https://echa.europa.eu/documents/10162/6d48ec99-f364-44de-92a5-62d505ea3724	10/28/2008
11	Diarsenic trioxide	1327-53-3	■	https://echa.europa.eu/documents/10162/d502da18-827f-408d-aa24-9fe0c7e6ed1b	10/28/2008
12	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2	■	https://echa.europa.eu/documents/10162/	10/28/2008

				e3747ed6-99b4-43d1-92ae-9c837ded241d	
13	Hexabromocyclododecane (HBCDD) Alpha Hexabromocyclododecane Beta- Hexabromocyclododecane Gama Hexabromocyclododecane	25637-99-4 (134237-50-6) (134237-51-7) (134237-52-8)	■	https://echa.europa.eu/documents/10162/471aceac-4e5e-4c53-a4b2-23159a290893	10/28/2008
14	Alkanes Short Chain Chlorinated paraffins	85535-84-8	■	https://echa.europa.eu/documents/10162/e9713dc8-1855-4dab-9635-72ca8be244ae	10/28/2008
15	Bis(tributyltin)oxide	56-35-9	■	https://echa.europa.eu/documents/10162/1b18d017-1056-4c92-aeeb-f190ad674174	10/28/2008

Adam Tech defines “**REACH Compliant**”, to mean that banned substances are not intentionally added during the manufacturing process and have upper concentrations within REACH acceptable limits.

This status is based on Adam Tech understanding of REACH and Adam Tech knowledge of the materials that go into its products as of the date of June 1st 2007 disclosure of REACH compliance.

Amendment A

In a press release dated 7 December 2009, the European Chemicals Agency (ECHA) announced 15 new substances identified as potential Substances of Very High Concern (SVHC). As of January 2010 these substances were formally added to the Candidate List, as per list below

No.	Substance Name	CAS NO.	Not Used	Inclusion	Date of Inclusion
16	Anthracene Oil	90640-80-5	■	https://echa.europa.eu/documents/10162/f7cfd7b-2a5a-49aa-9d16-61689ad3a8e3	1/13/2010
17	Anthracene Oil, Anthracene Paste Distn. Lights	91995-17-4	■	https://echa.europa.eu/documents/10162/960a181f-7094-4be7-b02f-c49513a0442e	1/13/2010
18	Anthracene oil, Athracene paste, Anthracene fraction	91995-15-2	■	https://echa.europa.eu/docu	1/13/2010

				ments/10162/b5013ad5-8980-478b-aa32-4859860f9aef	
19	Anthracene oil, anthracene-low	90640-82-7	■	https://echa.europa.eu/documents/10162/709cf01f-1445-4606-a0f2-1940a468dab6	1/13/2010
20	Anthracene oil, Anthracene paste	90640-81-6	■	https://echa.europa.eu/documents/10162/df5aecc8-d928-4a70-9bf0-90ca5953bc44	1/13/2010
21	Diisobutyl phthalate	84-69-5	■	https://echa.europa.eu/documents/10162/8f861ec5-40ca-43d6-be8a-7bc22b96f84f	1/13/2010
22	Aluminosilicate, Refractory Ceramic Fibers	Extracted from index 650-017-00-8	■	https://echa.europa.eu/documents/10162/9c0854f5-3f46-4dc5-9776-72ac20f908e2 https://echa.europa.eu/documents/10162/df7f314c-bda4-496c-8d86-04fe2421e157	1/13/2010
23	Lead chromate	7758-97-6	■	https://echa.europa.eu/documents/10162/1f928dd4-69c2-494d-8d94-08699be302e5	1/13/2010
24	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)	12656-85-8	■	https://echa.europa.eu/documents/10162/9a10159e-0846-488b-8fdb-5162e2bf97f4	1/13/2010
25	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	■	https://echa.europa.eu/documents/10162/7d4b0549-413	1/13/2010

				a-4642-ac69-069566c2f624	
26	Tris(2-chloroethyl)phosphate	115-96-8	■	https://echa.europa.eu/documents/10162/78d8ecfd-5e83-4299-9f16-15681ee11bbb	1/13/2010
27	Coal tar pitch, high temperature	65996-93-2	■	https://echa.europa.eu/documents/10162/30488018-7d14-42b1-90eb-8235974bf023	1/13/2010
28	2,4-Dinitrotoluene	204-450-0	■	https://echa.europa.eu/documents/10162/7700e235-3ba5-44d4-9ab9-5ace916ca7b3	1/13/2010

This updated status is based on Adam Tech understanding of REACH and Adam Tech knowledge of the 15 new substances that go into its products as of the date of January 1st 2010 disclosure of REACH compliance.

Amendment B

In a press release dated 30 March 2010, the European Chemicals Agency (ECHA) announced 1 new substances identified as potential Substances of Very High Concern (SVHC). As of March 2010 this substances were formally added to the Candidate List , as per list below

No.	Substance Name	CAS NO.	Not Used	Inclusion	Date of Inclusion
29	Acrylamide	79-06-1	■	https://echa.europa.eu/documents/10162/b280c0f2-f957-44d9-9584-0974444464b22	3/30//2010

This updated status is based on Adam Tech's understanding of REACH and Adam Tech's knowledge of the 1 new substance that go into its products as of the date of March 30th 2010 disclosure of REACH compliance.

Amendment C

In a press release dated 18 June 2010, the European Chemicals Agency (ECHA) announced 8 new substances identified as potential Substances of Very High Concern (SVHC). As of June 2010 these substances were formally added to the Candidate List , as per list below

No.	Substance Name	CAS NO.	Not Used	Inclusion	Date of Inclusion
30	Ammonium dichromate	232-143-1	■	https://echa.europa.eu/documents/10162/f5cd363-1d18-4b42-a208-b0aa4034348e	6/18//2010
31	Boric acid	233-139-2 / 234-343-4	■	https://echa.europa.eu/documents/10162/6877f24b-c82b-4021-b05b-a25af94185c0	6/18//2010
32	Disodium tetraborate, anhydrous	215-540-4	■	https://echa.europa.eu/documents/10162/4912ba63-c1c1-4698-b1a0-3b58f6024cd5	6/18//2010
33	Potassium chromate	232-140-5	■	https://echa.europa.eu/documents/10162/4116dc63-d4ff-4465-b598-a81622c5f58b	6/18//2010
34	Potassium dichromate	231-906-6	■	https://echa.europa.eu/documents/10162/0f342468-8b83-48af-b1ce-c46eb9e011bf	6/18//2010
35	Sodium chromate	231-889-5	■	https://echa.europa.eu/documents/10162/f7a917fb-3073-4f18-93db-d49e3587df84	6/18//2010
36	Tetraboron disodium heptaoxide, hydrate	235-541-3	■	https://echa.europa.eu/documents/10162/4ed94bb5-533a-4a8a-823f-6348859263d1	6/18//2010
37	Trichloroethylene	201-167-4	■	https://echa.europa.eu/documents/10162/d54e4381-eebe-41dd-9eb5-5794d383f043	6/18//2010

This updated status is based on Adam Tech's understanding of REACH and Adam Tech's knowledge of the 1 new substance that go into its products as of the date of June 18th 2010 disclosure of REACH compliance.

Amendment D

In a press release dated 15 December 2010, the European Chemicals Agency (ECHA) announced 9 new substances identified as potential Substances of Very High Concern (SVHC). As of December 2010 these substances were formally added to the Candidate List, as per list below

No.	Substance Name	CAS NO.	Not Used	Inclusion	Date of Inclusion
38	2-Ethoxyethanol	110-80-5	■	https://echa.europa.eu/documents/10162/f25b7ab7-c339-4b4a-900b-7a2d38c32c1f	12/15/2010
39	2-Methoxyethanol	109-86-4	■	https://echa.europa.eu/documents/10162/d0434782-81cb-43af-ba42-88c301aeb105	12/15/2010
40	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid	7738-94-5, 13530-68-2	■	https://echa.europa.eu/documents/10162/7ec3a9eb-a9f6-4e82-9e7d-99794b3dc95e	12/15/2010
41	Chromium trioxide	1333-82-0	■	https://echa.europa.eu/documents/10162/6b11ec66-9d90-400a-a61a-90de9a0fd8b1	12/15/2010
42	Cobalt(II) carbonate	513-79-1	■	https://echa.europa.eu/documents/10162/75006cd4-1dc6-47de-bc84-dd92e07201a9	12/15/2010
43	Cobalt(II) diacetate	71-48-7	■	https://echa.europa.eu/documents/10162/454374bb-5c3a-4716-bce2-2bf2879536d3	12/15/2010
44	Cobalt(II) dinitrate	10141-05-6	■	https://echa.europa.eu/docu	12/15/2010

			ments/10162/93d2146d-6f41-43f1-9e4c-6c65ee52bfee	
45	Cobalt(II) sulphate	10124-43-3	■ https://echa.europa.eu/documents/10162/034150e5-fa99-4659-a208-3492fed19012	12/15/2010

This updated status is based on Adam Tech's understanding of REACH and Adam Tech's knowledge of the 1 new substance that go into its products as of the date of December 15th 2010 disclosure of REACH compliance.

Amendment E

In a press release dated 20 June 2011, the European Chemicals Agency (ECHA) announced 8 new substances identified as potential Substances of Very High Concern (SVHC). As of June 2011 these substances were formally added to the Candidate List, as per list below

No.	Substance Name	CAS NO.	Not Used	Inclusion	Date of Inclusion
46	2-Ethoxyethyl acetate	111-15-9	■	https://echa.europa.eu/documents/10162/4b69d66f-b3f9-4b3d-a1fb-a90c4825f7d5	6/20/2011
47	Strontium chromate	7789-06-2	■	https://echa.europa.eu/documents/10162/8003d372-68f9-4a5a-9094-4e6d0b58169c	6/20/2011
48	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	■	https://echa.europa.eu/documents/10162/e0602e69-f758-4eef-88c6-6e9c7a0359e6	6/20/2011
49	Hydrazine	302-01-2 / 7803-57-8	■	https://echa.europa.eu/documents/10162/c5b972a9-f57f-4fd5-8177-04b4e46c5e93	6/20/2011
50	1-Methyl-2-pyrrolidone	872-50-4	■	https://echa.europa.eu/documents/10162/2d6cdf	6/20/2011

				d7-e924-45fa-85d4-4450a7b4bf5a	
51	1,2,3-Trichloropropane	96-18-4	■	https://echa.europa.eu/documents/10162/6b5d8cc7-e37e-46e1-9d91-0f8d529ca833	6/20/2011
52	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	■	https://echa.europa.eu/documents/10162/1d278ff8-5bc6-4fa4-8b6a-6847121fcc9d	6/20/2011

This updated status is based on Adam Tech's understanding of REACH and Adam Tech's knowledge of the 1 new substance that go into its products as of the date of June 20th 2011 disclosure of REACH compliance.

Amendment F

In December 2011, the European Chemicals Agency (ECHA) announced 20 new substances identified as potential Substances of Very High Concern (SVHC). As of December 19, 2011 these substances were formally added to the Candidate List, as per list below

No.	Substance Name	CAS NO.	Not Used	Inclusion	Date of Inclusion
53	Potassium hydroxyoctaoxidizincatedi-chromate	234-329-8	■	https://echa.europa.eu/documents/10162/cbc1bcf1-2910-4813-a818-9f2069f69b3c	12/19/2011
54	Pentazinc chromate octahydroxide	256-418-0	■	https://echa.europa.eu/documents/10162/756bf74c-275b-4779-8d92-83fc3ac27318	12/19/2011
55	Aluminosilicate Refractory Ceramic Fibres (RCF)	-	■	https://echa.europa.eu/documents/10162/0d43d978-af14-4acf-9613-95d028fef958 https://echa.europa.eu/documents/10162/0d43d978-af14-4acf-9613-95d028fef958	12/19/2011

				0162/46da04ed-c0ac-482e-aa63-c75553312e84	
56	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)	Extracted from index 650-017-00-8	■	https://echa.europa.eu/documents/10162/9c0854f5-3f46-4dc5-9776-72ac20f908e2	12/19/2011
57	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	500-036-1	■	https://echa.europa.eu/documents/10162/f5ad72aa-57b0-456b-acca-080ea744a5d1	12/19/2011
58	Bis(2-methoxyethyl) phthalate	204-212-6	■	https://echa.europa.eu/documents/10162/18fc6f65-fb18-4151-b737-45ba0aefb181	12/19/2011
59	2-Methoxyaniline; o-Anisidine	201-963-1	■	https://echa.europa.eu/documents/10162/30d99b89-85a5-45d1-8701-1ad0680afb1e	12/19/2011
60	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	205-426-2	■	https://echa.europa.eu/documents/10162/189c55b4-d54b-4271-9e50-ce798faf9f4c	12/19/2011
61	1,2-Dichloroethane 1,2	203-458-1	■	https://echa.europa.eu/documents/10162/55390ac1-1267-4141-af33-67c787b50a0d	12/19/2011
62	Bis(2-methoxyethyl) ether	203-924-4	■	https://echa.europa.eu/documents/10162/55390ac1-1267-41	12/19/2011

				41-af33-67c787b50a0d	
63	Arsenic acid	231-901-9	■	https://echa.europa.eu/documents/10162/3646fac6-947b-41ea-b3bf-e231511be65c	12/19/2011
64	Calcium arsenate	231-904-5	■	https://echa.europa.eu/documents/10162/cb4e87e7-ebdc-4a02-8333-7b30084a9be4	12/19/2011
65	Trilead diarsenate	222-979-5	■	https://echa.europa.eu/documents/10162/f94e0b50-062a-4150-8652-f5d3ac218fcd	12/19/2011
66	N,N-dimethylacetamide (DMAC) N,N- (DMAC)	204-826-4	■	https://echa.europa.eu/documents/10162/65231f68-fe7a-4712-9f3a-99a9fdfb7dea	12/19/2011
67	2,2'-dichloro-4,4'-methylenedianiline (MOCA) 4,4'-3,3'-(MOCA)	202-918-9	■	https://echa.europa.eu/documents/10162/0a89c9f0-1da4-406b-8285-9db907cdb66a	12/19/2011
68	Phenolphthalein	201-004-7	■	https://echa.europa.eu/documents/10162/37893eb4-a79b-4982-a3f0-34438dc72904	12/19/2011
69	Lead diazide	236-542-1	■	https://echa.europa.eu/documents/10162/defeb72b-e314-4707-b01d-dd25464eb5f1	12/19/2011

70	Lead styphnate	239-290-0	■	https://echa.europa.eu/documents/10162/9f6e771e-a50c-4079-9a1a-1d2441ed0033	12/19/2011
71	Lead dipicrate	229-335-2	■	https://echa.europa.eu/documents/10162/3a01a0ae-69e4-4b0c-8d87-e5c42e8586a3	12/19/2011

Amendment G

In June 2012, the European Chemicals Agency (ECHA) announced 13 new substances identified as potential Substances of Very High Concern (SVHC). As of June 18, 2012 these substances were formally added to the Candidate List , as per list below

No.	Substance Name	CAS NO.	Not Used	Inclusion	Date of Inclusion
72	α,α -Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	246-356-2	■	https://echa.europa.eu/documents/10162/b5600741-d5d7-413c-9755-625a596d1ee1	6/18/2012
73	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	■	https://echa.europa.eu/documents/10162/55c7a0fd-13f8-41bd-b1b2-123cd eef4434	6/18/2012
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	■	https://echa.europa.eu/documents/10162/b396da4a-879d-4d97-88c0-f2a97c3160e2	6/18/2012

75	Diboron trioxide	1303-86-2	■	https://echa.europa.eu/documents/10162/c42c7cd8-b8d9-4a53-987e-55f8b377ea03	6/18/2012
76	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	■	https://echa.europa.eu/documents/10162/1797f7da-12f2-4db5-95ee-d8b2f119255b	6/18/2012
77	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	■	https://echa.europa.eu/documents/10162/bcf29e5e-c152-4f88-8df9-1f9515582e3e	6/18/2012
78	Lead(II) bis(methanesulfonate)	17570-76-2	■	https://echa.europa.eu/documents/10162/670a5290-68d3-4b88-83e8-6c06a4e430a8	6/18/2012
79	Formamide	75-12-7	■	https://echa.europa.eu/documents/10162/64c72b55-a1da-47ef-b47d-edad9c9f124e	6/18/2012
80	[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	■	https://echa.europa.eu/documents/10162/9c2106dd-ab9a-415d-8b47-039c5b5b223a	6/18/2012
81	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	■	https://echa.europa.eu/documents/10162/8baf4265-833f-467d-bb3d-cf3dfe92be88	6/18/2012
82	[4-[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue	2580-56-5	■	https://echa.europa.eu/documents/10162/8baf4265-833f-467d-bb3d-cf3dfe92be88	6/18/2012

	26) [with \geq 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]			162/4575515a-f67b-447e-afb0-9de9bdf2d8b4	
83	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	■	https://echa.europa.eu/documents/10162/f4f2cac7-9277-4dd0-bcfc-a0b3134331a3	6/18/2012
84	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	■	https://echa.europa.eu/documents/10162/fb031b0c-5e13-438a-a0ad-334a822c2e04	6/18/2012

Amendment H

In December 2012, the European Chemicals Agency (ECHA) announced 54 new substances identified as potential Substances of Very High Concern (SVHC). As of December 20, 2012 these substances were formally added to the Candidate List, as per list below

No.	Substance Name	CAS NO.	Not Used	Inclusion	Date of Inclusion
85	Pyrochlore, antimony lead yellow	8012-00-8	■	https://echa.europa.eu/documents/10162/9e101a56-02e0-481f-babb-e4f62d36912b	12/20/2012
86	6-methoxy-m-toluidine (p-cresidine)	120-71-8	■	https://echa.europa.eu/documents/10162/251a17	12/20/2012

				a0-cc98-4151-9b3f-3526c667a90e	
87	Henicosafuoroundecanoic acid	2058-94-8	■	https://echa.europa.eu/documents/10162/02881b162/02881b162-75ad-4e83-a9bb-c9f6dc81042e	12/20/2012
88	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] <i>[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]</i>	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	■	https://echa.europa.eu/documents/10162/81052549-dd49-40b5-9388-b5a72a1a3fb3	12/20/2012
89	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>	85-42-7, 13149-00-3, 14166-21-3	■	https://echa.europa.eu/documents/10162/b7a93309-0b81-4dbf-90e0-859bc0f41ce4	12/20/2012
90	Dibutyltin dichloride (DBTC)	683-18-1	■	https://echa.europa.eu/documents/10162/046189d5-908b-447f-b91b-b3f97c9de5b5	12/20/2012
91	Lead bis(tetrafluoroborate)	13814-96-5	■	https://echa.europa.eu/documents/10162/56f43ea4-a623-4d5e-b741-fee1fef7e771	12/20/2012
92	Lead dinitrate	10099-74-8	■	https://echa.europa.eu/documents/10162/e1c55ba4-1f9a-4633-b4c3-fdaba005b095	12/20/2012
93	Silicic acid, lead salt	11120-22-2	■	https://echa.europa.eu/documents/10162/a7314719-5b08-47ef-9ee7-daca71e06f54	12/20/2012

94	4-Aminoazobenzene	60-09-3	■	https://echa.europa.eu/documents/10162/9cf3cd45-97d2-455a-a58b-86d721fb4f54	12/20/2012
95	Lead titanium zirconium oxide	12626-81-2	■	https://echa.europa.eu/documents/10162/01818c6d-bcc9-4136-9eec-888823ae5fb0	12/20/2012
96	Lead monoxide (lead oxide)	1317-36-8	■	https://echa.europa.eu/documents/10162/ea71029e-f8de-4e5d-a393-6961aefd6e14	12/20/2012
97	o-Toluidine	95-53-4	■	https://echa.europa.eu/documents/10162/953517bb-4055-4a5b-9ed7-4bb69c3b96e7	12/20/2012
98	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	■	https://echa.europa.eu/documents/10162/2e6fa094-c665-4367-b4d6-d61b841e82c3	12/20/2012
99	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped	68784-75-8	■	https://echa.europa.eu/documents/10162/6bd3a623-dcbc-43ff-a5fa-8f710fc4053b	12/20/2012
100	<i>[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]</i>		■	https://echa.europa.eu/documents/10162/6bd3a623-dcbc-43ff-a5fa-8f710fc4053b	12/20/2012
101	Trilead bis(carbonate)dihydroxide	1319-46-6	■	https://echa.europa.eu/d	12/20/2012

				documents/10162/bd13bb56-cf5a-4ee-b7a2-367ba3838e86	
102	Furan	110-00-9	■	https://echa.europa.eu/documents/10162/1986ed9a-a382-4409-8faf-abd0f9af440a	12/20/2012
103	N,N-dimethylformamide	68-12-2	■	https://echa.europa.eu/documents/10162/52c73750-c192-457c-9c48-2bd9776cec88	12/20/2012
104	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated <i>[covering well-defined substances and UVCB substances, polymers and homologues]</i>	-	■	https://echa.europa.eu/documents/10162/b823f588-7c35-4bad-9e3c-b639b627df8f	12/20/2012
105	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>	-	■	https://echa.europa.eu/documents/10162/fd80f890-fb73-4201-8e2f-06dc04eaf5a9	12/20/2012
106	4,4'-methylenedi-o-toluidine	838-88-0	■	https://echa.europa.eu/documents/10162/aa8680a2-aecb-4b86-b4e9-e6d6ba41ed42	12/20/2012
107	Diethyl sulphate	64-67-5	■	https://echa.europa.eu/documents/10162/3f6a4989-b155-4827-abfc-51e3fa7e352d	12/20/2012
108	Dimethyl sulphate	77-78-1	■	https://echa.europa.eu/documents/10162/40a80d81-ac48-4ce	12/20/2012

				6-891c-53b7a3779646	
109	Lead oxide sulfate	12036-76-9	■	https://echa.europa.eu/documents/10162/933f22c2-cfa6-4126-b0a5-3ba33ce75487	12/20/2012
110	Lead titanium trioxide	12060-00-3	■	https://echa.europa.eu/documents/10162/a68aa6d7-bc05-4f79-9445-4dd0ecabc1bb	12/20/2012
111	Acetic acid, lead salt, basic	51404-69-4	■	https://echa.europa.eu/documents/10162/490c7cfa-ae94-48a0-83c9-99bc3c0a5e13	12/20/2012
112	[Phthalato(2-)]dioxotrilead	69011-06-9	■	https://echa.europa.eu/documents/10162/7de8998e-c87a-4fa6-82fa-927ffb0fe79	12/20/2012
113	Bis(pentabromophenyl)ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	■	https://echa.europa.eu/documents/10162/2d6d4c98-5c55-41ff-89e0-6557aed1c003	12/20/2012
114	N-methylacetamide	79-16-3	■	https://echa.europa.eu/documents/10162/b23de2c1-7142-43ec-9fba-ee150ed98bb1	12/20/2012
115	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	■		

116	1,2-Diethoxyethane	629-14-1	■	https://echa.europa.eu/documents/10162/c5d3b97f-9168-4c49-aa69-9197cd899a8d	12/20/2012
117	Tetralead trioxide sulphate	12202-17-4	■	https://echa.europa.eu/documents/10162/f56110e1-a0d6-4a1e-8c7d-9940d5ec8d91	12/20/2012
118	N-pentyl-isopentylphthalate	776297-69-9	■	https://echa.europa.eu/documents/10162/d54fc5db-a2c6-4b1c-9000-e398645ad294	12/20/2012
119	Dioxobis(stearato)trilead	12578-12-0	■	https://echa.europa.eu/documents/10162/b3332ac2-958d-4b79-86be-12a13f9cd8c8	12/20/2012
120	Tetraethyllead	78-00-2	■	https://echa.europa.eu/documents/10162/0b417b76-b533-42a1-9bd2-519f1dc1990d	12/20/2012
121	Pentalead tetraoxide sulphate	12065-90-6	■	https://echa.europa.eu/documents/10162/664946a7-1fba-487d-8d28-f47de7fb3a5c	12/20/2012
122	Pentacosafuorotridecanoic acid	72629-94-8	■	https://echa.europa.eu/documents/10162/0df4a67b-03ac-4468-b6b5-6526237f92ba	12/20/2012
123	Tricosafuorododecanoic acid	307-55-1	■	https://echa.europa.eu/documents/10162/0df4a67b-03ac-4468-b6b5-6526237f92ba	12/20/2012

				162/dd827b99-e744-4d49-84c3-00b82732059b	
124	Heptacosafuorotetradecanoic acid	376-06-7	■	https://echa.europa.eu/documents/10162/bb2caa51-1bcc-407b-b587-91d4ac23b564	12/20/2012
125	1-bromopropane (n-propyl bromide)	106-94-5	■	https://echa.europa.eu/documents/10162/322977d5-5c50-467b-a5aa-14dd621301af	12/20/2012
126	Methoxyacetic acid	625-45-6	■	https://echa.europa.eu/documents/10162/afb7a0e1-9222-4385-88cf-71c0b06191d0	12/20/2012
127	Methyloxirane (Propylene oxide)	75-56-9	■	https://echa.europa.eu/documents/10162/005a9afb-2a53-41df-8711-5c28765c6e6b	12/20/2012
128	Trilead dioxide phosphonate	12141-20-7	■	https://echa.europa.eu/documents/10162/af3610a5-f180-4fcd-95b7-636e43da9198	12/20/2012
129	o-aminoazotoluene	97-56-3	■	https://echa.europa.eu/documents/10162/d7aaf254-b61a-48a2-9f03-9c49bd0164c1	12/20/2012
130	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	■	https://echa.europa.eu/documents/10162/cdf66098-5920-44ea-9d26-aaa39	12/20/2012

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131	4,4'-oxydianiline and its salts	101-80-4	■	https://echa.europa.eu/documents/10162/7e13f20e-aa4c-4ab9-9b57-f0bd3cf750c9	12/20/2012
132	Orange lead (lead tetroxide)	1314-41-6	■	https://echa.europa.eu/documents/10162/97af2122-f294-472c-9cc8-978f116c6929	12/20/2012
133	Biphenyl-4-ylamine	92-67-1	■	https://echa.europa.eu/documents/10162/cefb8a85-ed61-4751-a722-2b3510d5f7a0	12/20/2012
134	Diisopentylphthalate	605-50-5	■	https://echa.europa.eu/documents/10162/917ec7f1-d611-4dad-8cf7-36c1ca07a400	12/20/2012
135	Fatty acids, C16-18, lead salts	91031-62-8	■	https://echa.europa.eu/documents/10162/7f59b681-ee89-484b-bec2-3412f3f7d0e5	12/20/2012
136	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	■	https://echa.europa.eu/documents/10162/4739d799-2888-4031-b3eb-73a9d475347b	12/20/2012
137	Sulfurous acid, lead salt, dibasic	62229-08-7	■	https://echa.europa.eu/documents/10162/486d5d7c-c872-48cf-9392-e86ecff34c04	12/20/2012
138	Lead cyanamidate	20837-86-9	■	https://echa.europa.eu/documents/10162/486d5d7c-c872-48cf-9392-e86ecff34c04	12/20/2012

				europa.eu/documents/10162/a6f8212c-590f-469a-b6c1-f40f234e4518	
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Amendment I

In June 19, 2013, the European Chemicals Agency (ECHA) announced 6 new substances identified as potential Substances of Very High Concern (SVHC). As of June 19, 2013 these substances were formally added to the Candidate List, as per list below

No.	Substance Name	CAS NO.	Not Used	Inclusion	Date of Inclusion
139	Cadmium	7440-43-9	■	https://echa.europa.eu/documents/10162/49a335ae-1ec4-40e5-88fb-3b08702da95c	6/20/2013
140	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	■	https://echa.europa.eu/documents/10162/b06436fd-6367-4a2fb6a2-2b8ffa183ae9	6/20/2013
141	Pentadecafluorooctanoic acid (PFOA)	335-67-1	■	https://echa.europa.eu/documents/10162/092663e6-b14a-4a06-aadf-fc0e56bc0a23	6/20/2013
142	Dipentyl phthalate (DPP)	131-18-0	■	https://echa.europa.eu/documents/10162/365998db-beb8-47b6-b080-ca5549397cd9	6/20/2013
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]		■	https://echa.europa.eu/documents/10162/fd80f890-fb73-4201-8e2f-06dc04eaf5a9	6/20/2013
144	Cadmium oxide	1306-19-0	■	https://echa.europa.eu/documents/10162/2fb75d7e-485c-4edb	6/20/2013

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Amendment J

In December 10, 2013, the European Chemicals Agency (ECHA) announced 7 new substances identified as potential Substances of Very High Concern (SVHC). As of December 10, 2013 these substances were formally added to the Candidate List, as per list below

No.	Substance Name	CAS NO.	Not Used	Inclusion	Date of Inclusion
145	Cadmium sulphide	1306-23-6	■	https://echa.europa.eu/documents/10162/204bc9fa-0673-4753-bd0e-e3503b4a1956	12/16/2013
146	Disodium 3,3'-[[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	■	https://echa.europa.eu/documents/10162/f9d799e8-5a32-44d1-b383-4c9695085cbf	12/16/2013
147	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	■	https://echa.europa.eu/documents/10162/6ab9d8cb-2d82-4dba-a68b-8752a00c4c76	12/16/2013
148	Dihexyl phthalate	84-75-3	■	https://echa.europa.eu/documents/10162/d90bb47a-7e33-43c3-82ad-18a55d39d502	12/16/2013
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	■	https://echa.europa.eu/documents/10162/e01d8301-5596-4905-98ad-f17eb9455241	12/16/2013
150	Lead di(acetate)	301-04-2	■	https://echa.europa.eu/documents/10162/ff4184dc-c595-4dc8-8241-941c073f2221	12/16/2013

151	Trixylyl phosphate	25155-23-1	■	https://echa.europa.eu/documents/10162/464f639f-6e07-4966-b63a-081ac8040e63	12/16/2013
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Amendment K

On June 6th, 2013, the European Chemicals Agency (ECHA) announced 4 new substances identified as potential Substances of Very High Concern (SVHC). As of June 6, 2013 these substances were formally added to the Candidate List, as per list below

No.	Substance Name	CAS NO.	Not Used	Inclusion	Date of Inclusion
152	Cadmium chloride	10108-64-2	■	https://echa.europa.eu/documents/10162/e2bc867c-de85-4d6d-a9d6-d856ab51685c	6/16/2014
153	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	■	https://echa.europa.eu/documents/10162/34533e6e-84d2-4a40-815d-7a02dac17041	6/16/2014
154	Sodium peroxometaborate	7632-04-4	■	https://echa.europa.eu/documents/10162/55e1c126-a528-440f-8c10-49a31b82eda3	6/16/2014
155	Sodium perborate; perboric acid, sodium salt		■	https://echa.europa.eu/documents/10162/02bff80c-33f6-4995-a1ef-4a7c33825069	6/16/2014

Amendment L

On December 17th, 2014, the European Chemicals Agency (ECHA) announced 6 new substances identified as potential Substances of Very High Concern (SVHC). As of December 17, 2014 these substances were formally added to the Candidate List, as per list below

No.	Substance Name	CAS NO.	Not Used	Inclusion	Date of Inclusion
156	Cadmium sulphate	10124-36-4, 31119-53-6	■	https://echa.europa.eu/documents/10162/02bff80c-33f6-4995-a1ef-4a7c33825069	12/17/2014

				162/9e3c41d5-088a-47e7-944a-2ccb112493b3	
157	Cadmium fluoride	7790-79-6	■	https://echa.europa.eu/documents/10162/e333469a-fca7-48c2-a88f-52ea8e7ad7e	12/17/2014
158	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	■	https://echa.europa.eu/documents/10162/c6a0c43b-adba-4351-a093-66b36d470de3	12/17/2014
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)		■	https://echa.europa.eu/documents/10162/917a0639-8b9d-43ce-802c-b4e82a7f20e3	12/17/2014
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	■	https://echa.europa.eu/documents/10162/8f7e275c-c02c-4357-90d9-59a37b14337a	12/17/2014
161	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	■	https://echa.europa.eu/documents/10162/27d9317d-3aeb-41d5-9116-1e07696d90cd	12/17/2014

Amendment M

On June 15th, 2015, the European Chemicals Agency (ECHA) announced 2 new substances identified as potential Substances of Very High Concern (SVHC). As of June 15, 2015 these substances were formally added to the Candidate List, as per list below

No.	Substance Name	CAS NO.	Not Used	Inclusion	Date of Inclusion
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	■	https://echa.europa.eu/documents/10162/aa4096ae-2a92-47b6-96c4-8e903234b2ae	6/15/2015

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]		■	https://echa.europa.eu/documents/10162/f7c78fc1-bc3e-4913-9a8f-1f57e03326e4	6/15/2015

Amendment N

On Dec 17th, 2015, the European Chemicals Agency (ECHA) announced 5 new substances identified as potential Substances of Very High Concern (SVHC). As of December 17, 2015 these substances were formally added to the Candidate List, as per list below

No.	Substance Name	CAS NO.	Not Used	Inclusion	Date of Inclusion
164	Nitrobenzene 98-95-3	98-95-3	■	https://echa.europa.eu/documents/10162/bcde2926-a00e-4389-8e48-67122bceba67	12/17/2015
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	■	https://echa.europa.eu/documents/10162/86a55090-a222-4389-83d6-4859f9efb875	12/17/2015
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	■	https://echa.europa.eu/documents/10162/aca017f7-ce9f-4bce-a991-7c9e911a3ddd	12/17/2015
167	1,3-propanesultone	1120-71-4	■	https://echa.europa.eu/documents/10162/e685b7a5-9825-4719-a746-ea358385f903	12/17/2015
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1, 21049-39-8, 4149-60-4	■	https://echa.europa.eu/documents/10162/725df6cb-070c-48c9	12/17/2015

				-89a5-500ee2dabe16	
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Amendment O

On June 20th, 2016, the European Chemicals Agency (ECHA) announced 1 new substance identified as potential Substances of Very High Concern (SVHC). As of June 20, 2016 this substance was formally added to the Candidate List , as per list below

No.	Substance Name	CAS NO.	Not Used	Inclusion	Date of Inclusion
169	Benzo[def]chrysene	50-32-8	■	https://echa.europa.eu/documents/10162/4b054c5b-8511-4a30-8ef8-35ab143b4fd0	6/20/2016

Amendment P

On January 12th, 2017, the European Chemicals Agency (ECHA) announced 4 new substance identified as potential Substances of Very High Concern (SVHC). As of January 12, 2017 this substance was formally added to the Candidate List , as per list below

No.	Substance Name	CAS NO.	Not Used	Inclusion	Date of Inclusion
170	p-(1,1-dimethylpropyl)phenol	80-46-6	■	https://echa.europa.eu/documents/10162/c11b5b68-67f4-8044-53a6-26759a106c80	12/01/2017
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts Nonadecafluorodecanoic acid EC no.: 206-400-3 CAS no.: 335-76-2 Ammonium nonadecafluorodecanoate EC no.: 221-470-5 CAS no.: 3108-42-7 Decanoic acid, nonadecafluoro-, sodium salt EC no.: - CAS no.: 3830-45-3		■ ■ ■ ■	https://echa.europa.eu/documents/10162/df3daa02-0c97-2c3a-2c7b-90c267642086	12/01/2017
172	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		■	https://echa.europa.eu/documents/10162/0f8c5cf3-ccb7-3df6-c351-1c2df00cbc91	12/01/2017
173	4,4'-isopropylidenediphenol		■	https://echa.europa.eu/document	12/01/2017

				s/10162/36834f25-582c-0855-37fb-bd20b409382c	
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Amendment Q

On July 7th, 2017, the European Chemicals Agency (ECHA) announced 1 new substance identified as potential Substances of Very High Concern (SVHC). As of July 7th, 2017 this substance was formally added to the Candidate List , as per list below

This updated status is based on Adam Tech’s understanding of REACH and Adam Tech’s knowledge of the 1 new substance that go into its products as of the date of July 7th 2017 disclosure of REACH compliance.

174	Perfluorohexane-1-sulphonic acid and its salts PFHxS		■	https://echa.europa.eu/document/s/10162/20a23653-34b1-bb48-4887-7ea77bedc637	7/7/2017
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QA Dept, Scott Sokoli

Signature: *Scott Sokoli*

Date: 6/1/2007

Revised: 7/7/2017