



ARNOLD TECHNOLOGIES (SHENZHEN) LIMITED.

D6 Xintang Industrial Zone, Baishixia, Fuyong

Baoan, Shenzhen, Guangdong, P.R.C.

Tel: 86 755 2739 1771

Fax: 86 755 2738 3210

2018-09-10

Declaration of Intent for REACH Implementation

Micrometals-Arnold Technologies has been following the development of REACH and working on its implications since its introduction in June 2007. With the identification of new SVHCs in June 2018, 191 substances are included in SVHC candidate list now. We continue to work with our supply base to ensure they are taking the necessary steps to ensure that the substances or preparations which they supply to Micrometals-Arnold Technologies is in full compliance with the regulations thereby minimizing or eliminating any disruption to our supply chain. With this initiative, we are comfortable that all our products will be delivered without any interruptions or negative consequences for our customers.

Based on the regulations and guidance documents which support the regulations, the goods which you purchase from Micrometals-Arnold Technologies meet the full definition of "articles." We do not deliver in the form of our products or the packaging, any substances or preparations to any of our customers and none of our articles release any substances. Furthermore, there is no reason to assume that any of our EU customers may need to act as an importer of our products produced outside of the EU. If this should become necessary, we will nominate an "only representative" located in the EU to carry out the required registration of the substance that is imported thereby relieving our customers of their registration obligations.

None of our articles contain any substances which are likely to be included in the "candidate list" of substances of very high concern (SVHC). If, at any time, any substance contained in our products is included in the candidate list, we will inform our customers. Likewise, if it comes to our attention that a supplier fails to pre-register a substance or preparation that is critical to production of our final product(s), our customers will be informed.

Please note that this declaration only applies to materials manufactured and shipped by Micrometals-Arnold Technologies and does not apply to any materials subsequently added, altered, converted or manufactured by others. Micrometals-Arnold Technologies REACH declaration and any updates in regards to this topic will be posted on our web site at <http://www.MicrometalsAPC.com>

Our contact details for communication related to REACH:

Thank you.

Graham E Dunn

General Manager.

Graham E Dunn
General Manager

REACH Annex XIX (Updated Date June 27, 2018)

No.	Substance name(Eng)	CAS No.	EC No.	Contain Limit (ppm MAX)
1	2,4-Dinitrotoluene	121-14-2	204-450-0	1000
2	Anthracene oil	90640-80-5	292-602-7	1000
3	Anthracene oil, anthracene paste, distn. Lights	91995-17-4	295-278-5	1000
4	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	1000
5	Anthracene oil, anthracene-low	90640-82-7	292-604-8	1000
6	Anthracene oil, anthracene paste	90640-81-6	292-603-2	1000
7	Diisobutyl phthalate	84-69-5	201-553-2	1000
8	Lead chromate	7758-97-6	231-846-0	1000
9	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)	12656-85-8	235-759-9	1000
10	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	215-693-7	1000
11	Acrylamide	79-06-1	201-173-7	1000
12	Tris(2-chloroethyl)phosphate	115-96-8	204-118-5	1000
13	Coal tar pitch, high temperature	65996-93-2	266-028-2	1000
14	Anthracene	120-12-7	204-371-1	1000
15	4,4'- Diaminodiphenylmethane	101-77-9	202-974-4	1000
16	Dibutyl phthalate	84-74-2	201-557-4	1000
17	Cobalt dichloride	7646-79-9	231-589-4	1000
18	Diarsenic pentaoxide	1303-28-2	215-116-9	1000
19	Diarsenic trioxide	1327-53-3	215-481-4	1000
20	Benzyl butyl phthalate	85-68-7	201-622-7	1000
21	5-tert-butyl-2,4,6-trinitro-m-xylene(musk xylene)	81-15-2	201-329-4	1000
22	Bis (2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	204-211-0	1000
23	Triethyl arsenate	15606-95-8	427-700-2	1000
24	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5	1000

25	Bis(tributyltin)oxide	56-35-9	200-268-0	1000
26	Lead hydrogen arsenate	7784-40-9	232-064-2	1000
27	Sodium dichromate	7789-12-0, 10588-01-9	234-190-3	1000
28	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α – HBCDD, β -HBCDD, γ -HBCDD)	25637-99-4, 3194-55-6	247-148-4, 221-695-9	1000
29	Trichloroethylene	79-01-6	201-167-4	1000
30	Boric acid	10043-35-3 /1113-50-1	233-139-2 234-343-4	1000
31	Disodium tetraborate, anhydrous	1303-96-4 1330-43-4 12179-04-3	215-540-4	1000
32	Tetraboron disodium heptaoxide, hydrate	12267-73-1	235-541-3	1000
33	Sodium chromate	7775-11-3	231-889-5	1000
34	Potassium chromate	7789-00-6	232-140-5	1000
35	Ammonium dichromate	7789-09-5	232-143-1	1000
36	Potassium dichromate	7778-50-9	231-906-6	1000
37	Cobalt(II) sulphate	10124-43-3	233-334-2	1000
38	Cobalt(II) dinitrate	10141-05-6	233-402-1	1000
39	Cobalt(II) carbonate	513-79-1	208-169-4	1000
40	Cobalt(II) diacetate	71-48-7	200-755-8	1000
41	2-Methoxyethanol	109-86-4	203-713-7	1000
42	2-Ethoxyethanol	110-80-5	203-804-1	1000
43	Chromium trioxide	1333-82-0	215-607-8	1000
44	Acids generated from chromium trioxide and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid	7738-94-5 13530-68-2	231-801-5 231-881-5	1000
45	2-ethoxyethyl acetate	111-15-9	203-839-2	1000
46	Strontium chromate	7789-06-2	232-142-6	1000
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	271-084-6	1000
48	Hydrazine	7803-57-8, 302-01-2	206-114-9	1000

49	1-methyl-2-pyrrolidone	872-50-4	212-828-1	1000
50	1,2,3-trichloropropane	96-18-4	202-486-1	1000
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	276-158-1	1000
52	Dichromium tris(chromate)	24613-89-6	246-356-2	1000
53	Potassium hydroxyoctaoxidizincatedi-chromat e	11103-86-9	234-329-8	1000
54	Pentazinc chromate octahydroxide	49663-84-5	256-418-0	1000
55	Aluminosilicate Refractory Ceramic Fibres (RCF)	—	(650-017-00-8)	1000
56	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)	—	(650-017-00-8)	1000
57	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1	1000
58	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	1000
59	2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	1000
60	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	205-426-2	1000
61	1,2-Dichloroethane	107-06-2	203-458-1	1000
62	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	1000
63	Arsenic acid	7778-39-4	231-901-9	1000
64	Calcium arsenate	7778-44-1	231-904-5	1000
65	Trilead diarsenate	3687-31-8	222-979-5	1000
66	N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	1000
67	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	202-918-9	1000
68	Phenolphthalein	77-9-8	201-004-7	1000
69	Lead azide Lead diazide	13424-46-9	236-542-1	1000
70	Lead styphnate	15245-44-0	239-290-0	1000
71	Lead dipicrate	6477-64-1	229-335-2	1000
72	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	1000
73	Diboron trioxide	1303-86-2	215-125-8	1000

74	Formamide	'75-12-7	200-842-0	1000
75	Lead(II) bis(methanesulfonate)	17570-76-2	401-750-5	1000
76	1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione (TGIC)	2451-62-9	219-514-3	1000
77	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	1000
78	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5	1000
79	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	1000
80	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	208-953-6	1000
81	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5	219-943-6	1000
82	α,α -Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	229-851-8	1000
83	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	209-218-2	1000
84	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)]	6786-83-0	229-851-8	1000
85	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	214-604-9	1000
86	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	1000
87	Tricosafuorododecanoic acid	307-55-1	206-203-2	1000
88	Henicosafuoroundecanoic acid	2058-94-8	218-165-4	1000
89	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	1000

90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues	-	-	1000
91	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	-	-	1000
92	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	1000
93	Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	85-42-7	201-604-9	1000
94	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	1000
95	Methoxy acetic acid	625-45-6	210-894-6	1000
96	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	1000
97	Diisopentylphthalate (DIPP)	605-50-5	210-088-4	1000
98	N-pentyl-isopentylphthalate	-	-	1000
99	1,2-Diethoxyethane	629-14-1	211-076-1	1000
100	N,N-dimethylformamide; dimethyl formamide	68-12-2	200-679-5	1000
101	Dibutyltin dichloride (DBT)	683-18-1	211-670-0	1000
102	Acetic acid, lead salt, basic	51404-69-4	257-175-3	1000
103	Basic lead carbonate (trilead bis(carbonate)dihydroxide)	1319-46-6	215-290-6	1000
104	Lead oxide sulfate (basic lead sulfate)	12036-76-9	234-853-7	1000
105	[Phthalato(2-)]dioxotrilead (dibasic lead phthalate)	69011-06-9	273-688-5	1000
106	Dioxobis(stearato)trilead	12578-12-0	235-702-8	1000
107	Fatty acids, C16-18, lead salts	91031-62-8	292-966-7	1000
108	Lead bis(tetrafluoroborate)	13814-96-5	237-486-0	1000
109	Lead cyanamide	20837-86-9	244-073-9	1000
110	Lead dinitrate	10099-74-8	233-245-9	1000

111	Lead oxide (lead monoxide)	1317-36-8	215-267-0	1000
112	Lead tetroxide (orange lead)	1314-41-6	215-235-6	1000
113	Lead titanium trioxide	12060-00-3	235-038-9	1000
114	Lead Titanium Zirconium Oxide	12626-81-2	235-727-4	1000
115	Pentalead tetraoxide sulphate	12065-90-6	235-067-7	1000
116	Pyrochlore, antimony lead yellow	8012-00-8	232-382-1	1000
117	Silicic acid, barium salt, lead-doped	68784-75-8	272-271-5	1000
118	Silicic acid, lead salt	11120-22-2	234-363-3	1000
119	Sulfurous acid, lead salt, dibasic	62229-08-7	263-467-1	1000
120	Tetraethyllead	78-00-2	201-075-4	1000
121	Tetralead trioxide sulphate	12202-17-4	235-380-9	1000
122	Trilead dioxide phosphonate	12141-20-7	235-252-2	1000
123	Furan	110-00-9	203-727-3	1000
124	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	200-879-2	1000
125	Diethyl sulphate	64-67-5	200-589-6	1000
126	Dimethyl sulphate	77-78-1	201-058-1	1000
127	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	1000
128	Dinoseb	88-85-7	201-861-7	1000
129	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	1000
130	4,4'-oxydianiline and its salts	101-80-4	202-977-0	1000
131	4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3	200-453-6	1000
132	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7	202-453-1	1000
133	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1	1000
134	Biphenyl-4-ylamine	92-67-1	202-177-1	1000
135	o-aminoazotoluene	97-56-3	202-591-2	1000
136	o-Toluidine; 2-Aminotoluene	95-53-4	202-429-0	1000
137	N-methylacetamide	79-16-3	201-182-6	1000
138	1-bromopropane; n-propyl bromide	106-94-5	203-445-0	1000
139	Cadmium	7440-43-9	231-152-8	1000
140	Cadmium oxide	1306-19-0	215-146-2	1000

141	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	1000
142	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	1000
143	Dipentyl phthalate (DPP)	131-18-0	205-017-9	1000
144	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]	km-0044(※3)		1000
145	Cadmium sulphide	1306-23-6	215-147-8	1000
146	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	1000
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	217-710-3	1000
148	Dihexyl phthalate	84-75-3	201-559-5	1000
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	202-506-9	1000
150	Lead di(acetate)	301-04-2	206-104-4	1000
151	Trixylyl phosphate	25155-23-1	246-677-8	1000
152	Cadmium chloride	233-296-7	10108-64-2	1000
153	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4	1000
154	Sodium peroxometaborate	231-556-4	7632-04-4	1000
155	Sodium perborate; perboric acid, sodium salt	239-172-9; 234-390-0		

156	Cadmium fluoride	7790-79-6	232-222-0	1000
157	Cadmium sulphate	10124-36-4, 31119-53-6	233-331-6	1000
158	2-Benzotriazol-2-yl-4,6-di-tert- butylphenol (UV-320)	3846-71-7	223-346-6	1000
159	2-(2H-benzotriazol-2-yl)-4,6- ditertpentylphenol (UV-328)	25973-55-1	247-384-8	1000
160	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7- oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	239-622-4	1000
161	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)	--	-- / --	1000
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	1000
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 isomers of [1] and [2] or any combination thereof]	-	-	1000
164	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride(trimellitic anhydride;TMA)	552-30-7	209-008-0	1000
165	Benzo(ghi)perylene	191-24-2	205-883-8	1000
166	Decamethylcyclopentasiloxane(D5)	541-02-6	208-764-9	1000
167	Dicyclohexyl phthalate(DCHP)	84-61-7	201-545-9	1000

168	Disodium ocaborate#	12008-41-2	234-541-0	1000
169	Dodecamethylcyclohexasiloxane(D6)	540-97-6	208-762-8	1000
170	4-Methyl-m-phenylenediamine(toluene-2,4-diamine)	95-80-7	202-453-1	1000
171	1,2-bis(2-methoxyethoxy)ethane(TEGDME;triglyme)	112-49-2	203-977-3	1000
172	Ethylenediamine(EDA)	107-15-3	203-468-6	1000
173	Lead#	7439-92-1	231-100-4	1000
174	Octamethylcyclotetrasiloxane(D4)	209-136-7	556-67-2	1000
175	Terphenyl,hydrogenated	61788-32-7	262-967-7	1000
176	Benz(a)anthracene	56-55-3,1718-53-2	200-280-6	1000
177	Cadmium carbonate#	513-78-0	208-168-9	1000
178	Cadmium hydroxide#	21041-95-2	244-168-5	1000
179	Cadmium nitrate#	10022-68-1,10325-94-7	233-710-6	1000
180	Chrysene	218-01-9,1719-03-5	205-923-4	1000

181	1,6,7,8,9,14,15,16,17,18,18-Dodecachloropentacyclo	-	-	1000
182	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione	-	-	1000
183	Perfluorohexane-1-sulphonic acid and its salts(PFHxS)	-	-	1000
184	4,4'-isopropylidenediphenol(bisphenol A;BPA)	80-05-7	201-245-8	1000
185	Nonadecafluorodecanoic acid(PFDA)and its sodium and ammonium salts	-	-	1000
186	p-(1,1-dimethylpropyl)phenol	80-46-6	201-290-9	1000
187	4-heptylphenol,branched and linear	-	-	1000
188	Benzo(def)chrysene(Benzo(a)pyrene)	50-32-8	200-028-5	1000
189	1,3-propanesultone	1120-71-4	214-317-9	1000
190	Nitrobenzene	98-95-3	202-716-0	1000
191	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	206-801-3	1000