WIZnet Co., Ltd
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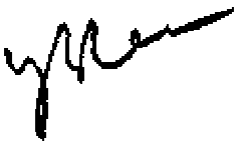
- **Date**: Issued on July 2th, 2009 / Updated on September 20 th, 2018
- **To** : All Concerned Partners
- **Subject** : Statement on REACH Provisions from WIZnet, Integrated Circuit Products

To ensure a common approach toward the legal obligations and timelines under the European Union's REACH Community Regulation (Registration, Evaluation, Authorization and Restriction of Chemical substances, EC 1907/2006), global Semiconductor device manufacturers have developed a clear common statement concerning REACH and its impact on the industry. WIZnet Co., Ltd has participated in the development of this common understanding and has been preparing both our company and our supply chain for the requirement under REACH. We are actively monitoring the specifics of the REACH requirements and how such requirements apply to our operations.

With regard to the 191 Substances of Very High Concern (SVHC) candidate list published on the European Chemicals Agency (ECHA) website, based on information from our suppliers and internal chemical screening processes WIZnet does not use any of the 191 chemicals to manufacture IC devices, and does not contravene the restrictions of Annex XVII of the REACH regulations. If there is any change, WIZnet will provide the information to our customers in a timely manner concerning their use or non-use within finished IC products.

Sincerely yours,



Yun Bong Lee
CEO/President WIZnet, Co.

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REACH SVHC List in Table, Total Number: 191 Substances (Updated on 20 September 2018)

Name	EC Number	CAS Number	Date of inclusion
Triethyl arsenate	427-700-2	15606-95-8	2008-10-28
Sodium dichromate	234-190-3	7789-12-0, 10588-01-9	2008-10-28
Lead hydrogen arsenate	232-064-2	7784-40-9	2008-10-28
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	2008-10-28
Dibutyl phthalate (DBP)	201-557-4	84-74-2	2008-10-28
Diarsenic trioxide	215-481-4	1327-53-3	2008-10-28
Diarsenic pentaoxide	215-116-9	1303-28-2	2008-10-28
Bis(tributyltin) oxide (TBTO)	200-268-0	56-35-9	2008-10-28
Benzyl butyl phthalate (BBP)	201-622-7	85-68-7	2008-10-28
Anthracene	204-371-1	120-12-7	2008-10-28
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8	2008-10-28
5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	201-329-4	81-15-2	2008-10-28
4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9	2008-10-28
Tris(2-chloroethyl)phosphate	204-118-5	115-96-8	2010-01-13
Pitch, coal tar, high temp.	266-028-2	65996-93-2	2010-01-13
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2	2010-01-13
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8	2010-01-13
Lead chromate	231-846-0	7758-97-6	2010-01-13
Diisobutyl phthalate (DIBP)	201-553-2	84-69-5	2010-01-13
Anthracene oil, anthracene-low	292-604-8	90640-82-7	2010-01-13
Anthracene oil, anthracene paste, distn. lights	295-278-5	91995-17-4	2010-01-13
Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2	2010-01-13
Anthracene oil, anthracene paste	292-603-2	90640-81-6	2010-01-13
Anthracene oil	292-602-7	90640-80-5	2010-01-13
2,4-Dinitrotoluene (2,4-DNT)	204-450-0	121-14-2	2010-01-13
Acrylamide	201-173-7	79-06-1	2010-03-30
Trichloroethylene	201-167-4	79-01-6	2010-06-18
Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1	2010-06-18
Sodium chromate	231-889-5	7775-11-3,	2010-06-18
Potassium dichromate	231-906-6	7778-50-9	2010-06-18
Potassium chromate	232-140-5	7789-00-6	2010-06-18
Disodium tetraborate, anhydrous	215-540-4	1303-96-4, 1330-43-4, 12179-04-3	2010-06-18
Boric acid	233-139-2, 234-343-4	10043-35-3, 11113-50-1	2010-06-18
Ammonium dichromate	232-143-1	7789-9-5,	2010-06-18
Cobalt(II) sulphate	233-334-2	10124-43-3	2010-12-15
Cobalt(II) dinitrate	233-402-1	10141-05-6	2010-12-15
Cobalt(II) diacetate	200-755-8	71-48-7	2010-12-15
Cobalt(II) carbonate	208-169-4	513-79-1	2010-12-15
Chromium trioxide	215-607-8	1333-82-0	2010-12-15
Acids generated from chromium trioxide and their oligomers. Names of the acids and their oligomers: Chromic acid, Dichromic acid,	231-801-5, 236-881-5	7738-94-5, 13530-68-2	2010-12-15

Oligomers of chromic acid and dichromic acid.			
2-Methoxyethanol	203-713-7	109-86-4	2010-12-15
2-Ethoxyethanol	203-804-1	110-80-5	2010-12-15
Strontium chromate	232-142-6	7789-6-2,	2011-06-20
Hydrazine	206-114-9	302-01-2, 7803-57-8	2011-06-20
2-Ethoxyethyl acetate	203-839-2	111-15-9	2011-06-20
1-Methyl-2-pyrrolidone (NMP)	212-828-1	872-50-4	2011-06-20
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4	2011-06-20
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6	2011-06-20
1,2,3-trichloropropane	202-486-1	96-18-4	2011-06-20
Cobalt dichloride	231-589-4	7646-79-9	2011/06/20 - 2008/10/28
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			2011-12-19
Trilead diarsenate	222-979-5	3687-31-8	2011-12-19
Potassium hydroxyoctaoxodizincatedichromate	234-329-8	11103-86-9	2011-12-19
Phenolphthalein	201-004-7	77-09-8	2011-12-19
Pentazinc chromate octahydroxide	256-418-0	49663-84-5	2011-12-19
N,N-dimethylacetamide	204-826-4	127-19-5	2011-12-19
Lead styphnate	239-290-0	15245-44-0	2011-12-19
Lead dipicrate	229-335-2	6477-64-1	2011-12-19
Lead diazide, Lead azide	236-542-1	13424-46-9	2011-12-19
Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4	2011-12-19
Dichromium tris(chromate)	246-356-2	24613-89-6	2011-12-19
Calcium arsenate	231-904-5	7778-44-1	2011-12-19
Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	2011-12-19
Bis(2-methoxyethyl) ether	203-924-4	111-96-6	2011-12-19
Arsenic acid	231-901-9	7778-39-4	2011-12-19
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			2011-12-19

or less micrometres (µm) c) alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+MgO+BaO) content less or equal to 18% by weight			
4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9	2011-12-19
2-Methoxyaniline,o-Anisidine	201-963-1	90-04-0	2011-12-19
2,2'-dichloro-4,4'-methylenedianiline (MOCA)	202-918-9	101-14-4	2011-12-19
1,2-Dichloroethane	203-458-1	107-06-2	2011-12-19
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	2012-06-18
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1	2012-06-18
Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2	2012-06-18
Formamide	200-842-0	75-12-7	2012-06-18
Diboron trioxide	215-125-8	1303-86-2	2012-06-18
[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	2012-06-18
[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	2012-06-18
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8	2012-06-18
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	2012-06-18
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	2012-06-18
1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	219-514-3	2451-62-9	2012-06-18
1,2-dimethoxyethane,ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4	2012-06-18
1,2-bis(2-methoxyethoxy)ethane (TEGDME,triglyme)	203-977-3	112-49-2	2012-06-18
Trilead dioxide phosphonate	235-252-2	12141-20-7	2012-12-19
Trilead bis(carbonate) dihydroxide	215-290-6	1319-46-6	2012-12-19
Tricosafluorododecanoic acid	206-203-2	307-55-1	2012-12-19
Tetralead trioxide sulphate	235-380-9	12202-17-4	2012-12-19
Tetraethyllead	201-075-4	78-00-2	2012-12-19
Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7	2012-12-19
Silicic acid, lead salt	234-363-3	11120-22-2	2012-12-19
Silicic acid (H₂Si₂O₅), 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	272-271-5	68784-75-8	2012-12-19

lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]			
Pyrochlore, antimony lead yellow	232-382-1	8012-00-8	2012-12-19
Pentalead tetraoxide sulphate	235-067-7	12065-90-6	2012-12-19
Pentacosafluorotridecanoic acid	276-745-2	72629-94-8	2012-12-19
Orange lead (lead tetroxide)	215-235-6	1314-41-6	2012-12-19
o-Toluidine	202-429-0	95-53-4	2012-12-19
o-aminoazotoluene	202-591-2	97-56-3	2012-12-19
N-pentyl-isopentylphthalate		776297-69-9	2012-12-19
N-methylacetamide	201-182-6	79-16-3	2012-12-19
N,N-dimethylformamide	200-679-5	68-12-2	2012-12-19
Methyloxirane (Propylene oxide)	200-879-2	75-56-9	2012-12-19
Methoxyacetic acid	210-894-6	625-45-6	2012-12-19
Lead titanium zirconium oxide	235-727-4	12626-81-2	2012-12-19
Lead titanium trioxide	235-038-9	12060-00-3	2012-12-19
Lead oxide sulfate	234-853-7	12036-76-9	2012-12-19
Lead monoxide (lead oxide)	215-267-0	1317-36-8	2012-12-19
Lead dinitrate	233-245-9	10099-74-8	2012-12-19
Lead cyanamidate	244-073-9	20837-86-9	2012-12-19
Lead bis(tetrafluoroborate)	237-486-0	13814-96-5	2012-12-19
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	2012-12-19
Heptacosafluorotetradecanoic acid	206-803-4	376-06-7	2012-12-19
Henicosafluoroundecanoic acid	218-165-4	2058-94-8	2012-12-19
Furan	203-727-3	110-00-9	2012-12-19
Fatty acids, C16-18, lead salts	292-966-7	91031-62-8	2012-12-19
Dioxobis(stearato)trilead	235-702-8	12578-12-0	2012-12-19
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7	2012-12-19
Dimethyl sulphate	201-058-1	77-78-1	2012-12-19
Diisopentylphthalate	210-088-4	605-50-5	2012-12-19
Diethyl sulphate	200-589-6	64-67-5	2012-12-19
Dibutyltin dichloride (DBTC)	211-670-0	683-18-1	2012-12-19
Diazene-1,2-dicarboxamide (C,C`-azodi(formamide)) (ADCA)	204-650-8	123-77-3	2012-12-19
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	2012-12-19
Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	214-604-9	1163-19-5	2012-12-19
Biphenyl-4-ylamine	202-177-1	92-67-1	2012-12-19
Acetic acid, lead salt, basic	257-175-3	51404-69-4	2012-12-19
[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9	2012-12-19
6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8	2012-12-19
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-			2012-12-19

defined substances which include any of the individual isomers or a combination thereof]			
4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7	2012-12-19
4-Aminoazobenzene	200-453-6	60-09-3	2012-12-19
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]			2012-12-19
4,4'-oxydianiline and its salts	202-977-0	101-80-4	2012-12-19
4,4'-methylenedi-o-toluidine	212-658-8	838-88-0	2012-12-19
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2	2012-12-19
1-bromopropane (n-propyl bromide)	203-445-0	106-94-5	2012-12-19
1,2-Diethoxyethane	211-076-1	629-14-1	2012-12-19
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0	2012-12-19
Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1	2013-06-20
Dipentyl phthalate (DPP)	205-017-9	131-18-0	2013-06-20
Cadmium oxide	215-146-2	1306-19-0	2013-06-20
Cadmium	231-152-8	7440-43-9	2013-06-20
Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1	2013-06-20
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]			2013-06-20
Trixylyl phosphate	246-677-8	25155-23-1	2013-12-16
Lead di(acetate)	206-104-4	301-04-2	2013-12-16
Imidazolidine-2-thione (2-imidazoline-2-thiol)	202-506-9	96-45-7	2013-12-16
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	2013-12-16
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	2013-12-16
Dihexyl phthalate	201-559-5	84-75-3	2013-12-16
Cadmium sulphide	215-147-8	1306-23-6	2013-12-16
Sodium peroxometaborate	231-556-4	7632-4-4,	2014-06-16
Sodium perborate,perboric acid, sodium salt	239-172-9, 234-390-0		2014-06-16
Cadmium chloride	233-296-7	10108-64-2	2014-06-16
1,2-Benzenedicarboxylic acid, dihexylester, branched and linear	271-093-5	68515-50-4	2014-06-16
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)			2014-12-17
Cadmium sulphate	233-331-6	10124-36-4, 31119-53-6	2014-12-17
Cadmium fluoride	232-222-0	7790-79-6	2014-12-17
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-622-4	15571-58-1	2014-12-17

2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7	2014-12-17
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1	2014-12-17
Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0	117-81-7	2014/12/17; 2008/10/28
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]			2015-06-15
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)	271-094-0, 272-013-1	68515-51-5, 68648-93-1	2015-06-15
Perfluorononan-1-oic-acid and its sodium and ammonium salts	206-801-3	375-95-1, 21049-39-8, 4149-60-4	2015-12-17
1,3-propanesultone	214-317-9	1120-71-4	2015-12-17
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3	2015-12-17
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1	2015-12-17
Nitrobenzene	202-716-0	98-95-3	2015-12-17
Benzo[def]chrysene	200-028-5	50-32-8	2016-06-20
p-(1,1-dimethylpropyl)phenol (PTAP)	201-280-9	80-46-6	2017-01-12
4-heptylphenol, branched and linear (4-HPbl)	-	-	2017-01-12
nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	206-400-3	335-76-2	2017-01-12
4,4'-isopropylidenediphenol (bisphenol A)	201-245-8	80-05-7	2017-01-12
Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	-	-	2017-07-07
Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	-	-	2018-01-15
Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene (“Dechlorane Plus”™)	-	-	2018-01-15
Chrysene	205-923-4	218-01-9, 1719-03-5	2018-01-15
Cadmium nitrate	233-710-6	10022-68-1, 10325-94-7	2018-01-15
Cadmium hydroxide	244-168-5	21041-95-2	2018-01-15
Cadmium carbonate	208-168-9	513-78-0	2018-01-15
Benz[a]anthracene	200-280-6	56-55-3, 1718-53-2	2018-01-15
benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride)(TMA)	209-008-0	552-30-7	2018-06-27
Dicyclohexyl phthalate (DCHP)	201-545-9	84-61-7	2018-06-27
Terphenyl, hydrogenated	262-967-7	61788-32-7	2018-06-27
Octamethylcyclotetrasiloxane(D4)	209-136-7	556-67-2	2018-06-27
Lead	231-100-4	7439-92-1	2018-06-27
Ethylenediamine	203-468-6	107-15-3	2018-06-27
Dodecamethylcyclohexasiloxane(D6)	208-762-8	540-97-6	2018-06-27
Disodium octaborate	234-541-0	12008-41-2	2018-06-27
Decamethylcyclopentasiloxane (D5)	208-764-9	541-02-6	2018-06-27
Benzo[ghi]perylene	205-883-8	191-24-2	2018-06-27