

- **Date:** Issued on July 2nd, 2009 / Updated on October 27nd, 2017
- **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 174 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 174 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.

REACH SVHC List in Excel Table, Total Number: 174 Substances (Updated on 27 October 2017)

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

Name	EC Number	CAS Number	Date of inclusion
Benzo[def]chrysen	200-028-5	50-32-8	20-06-2016
Nitrobenzene	202-716-0	98-95-3	12-17-2015
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1	12-17-2015
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3	12-17-2015
1,3-propanesultone	214-317-9	1120-71-4	12-17-2015
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
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	6-15-2015
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
Bis(2-ethylhexyl)phthalate (DEHP)	204-211-0	117-81-7	2014/12/17; 2008/10/28
2-(2H-benzotriazol-2-yl)-4,6-ditertbutylphenol (UV-328)	247-384-8	25973-55-1	12-17-2014
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7	12-17-2014
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
Cadmium fluoride	232-222-0	7790-79-6	12-17-2014
Cadmium sulphate	233-331-6	10124-36-4, 31119-53-6	12-17-2014
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
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4	6-16-2014
Cadmium chloride	233-296-7	10108-64-2	6-16-2014
Sodium perborate, perboric acid, sodium salt	239-172-9, 234-390-0		6-16-2014
Sodium peroxometaborate	231-556-4	7632-4-4,	6-16-2014
Cadmium sulphide	215-147-8	1306-23-6	12-16-2013
Dihexyl phthalate	201-559-5	84-75-3	12-16-2013
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
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
Imidazolidine-2-thione (2-imidazoline-2-thiol)	202-506-9	96-45-7	12-16-2013
Lead diacetate	206-104-4	301-04-2	12-16-2013
Triethyl phosphate	246-677-8	25155-23-1	12-16-2013
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

Ammonium pentadecaf luorooctanoate (APFO)	223-320-4	3825-26-1	6-20-2013
Cadmium	231-152-8	7440-43-9	6-20-2013
Cadmium oxide	215-146-2	1306-19-0	6-20-2013
Dipenty l phthalate (DPP)	205-017-9	131-18-0	6-20-2013
Pentadecaf luorooctanoic acid (PFOA)	206-397-9	335-67-1	6-20-2013
1,2-Benzenedicarboxy lic acid, dipenty lester, branched and linear	284-032-2	84777-06-0	12-19-2012
1,2-Diethoxy ethane	211-076-1	629-14-1	12-19-2012
1-bromopropane (n-propy l bromide)	203-445-0	106-94-5	12-19-2012
3-ethy l-2-methy l-2-(3-methy lbutyl)-1,3-oxazolidine	421-150-7	143860-04-2	12-19-2012
4,4'-methy lenedi-o-toluidine	212-658-8	838-88-0	12-19-2012
4,4'-oxy dianiline and its salts	202-977-0	101-80-4	12-19-2012
4-(1,1,3,3-tetramethy lbuty l)phenol, ethoxy lated [covering well-def ined substances and UVCB substances, poly mers and homologues]			12-19-2012
4-Aminoazobenzene	200-453-6	60-09-3	12-19-2012
4-methy l-m-pheny lenediamine (toluene-2,4-diamine)	202-453-1	95-80-7	12-19-2012
4-Nony lphenol, branched and linear [substances with a linear and/or branched alky l chain with a carbon number of 9 cov alently bound in position 4 to phenol, cov ering also UVCB- and well-def ined substances which include any of the indiv idual isomers or a combination thereof]			12-19-2012
6-methoxy -m-toluidine (p-cresidine)	204-419-1	120-71-8	12-19-2012
[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9	12-19-2012
Acetic acid, lead salt, basic	257-175-3	51404-69-4	12-19-2012
Bipheny l-4-y lamine	202-177-1	92-67-1	12-19-2012
Bis(pentabromopheny l) ether (decabromodipheny l ether) (DecaBDE)	214-604-9	1163-19-5	12-19-2012
Cy clohexane-1,2-dicarboxy lic anhy dride [1], cis-cyclohexane-1,2-dicarboxy lic anhy dride [2], trans-cy clohexane-1,2-dicarboxy lic anhy dride [3] [The indiv idual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis - and trans-isomers [1] are cov ered by this entry]	201-604-9, 236-086-3, 238-009-9	85-42-7, 13149-00-3, 14166-21-3	12-19-2012
Diazene-1,2-dicarboxamide (C,C'-azodi(f ormamide)) (ADCA)	204-650-8	123-77-3	12-19-2012
Dibuty ltin dichloride (DBTC)	211-670-0	683-18-1	12-19-2012
Diethy l sulphate	200-589-6	64-67-5	12-19-2012
Diisopenty lphthalate	210-088-4	605-50-5	12-19-2012
Dimethy l sulphate	201-058-1	77-78-1	12-19-2012
Dinoseb (6-sec-buty l-2,4-dinitrophenol)	201-861-7	88-85-7	12-19-2012
Dioxobis(stearato)trilead	235-702-8	12578-12-0	12-19-2012
Fatty acids, C16-18, lead salts	292-966-7	91031-62-8	12-19-2012
Furan	203-727-3	110-00-9	12-19-2012
Henicosaf luoroundecanoic acid	218-165-4	2058-94-8	12-19-2012
Heptacosaf luorotetradecanoic acid	206-803-4	376-06-7	12-19-2012
Hexahy dromethy lphthalic anhy dride [1], Hexahy dro-4-methylphthalic anhy dride [2], Hexahy dro-1-methy lphthalic anhy dride [3], Hexahy dro-3-methy lphthalic anhy dride [4] [The indiv idual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric f orms) and all possible combinations of the isomers [1] are cov ered 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
Lead bis(tetraf luoroborate)	237-486-0	13814-96-5	12-19-2012
Lead cy anamide	244-073-9	20837-86-9	12-19-2012
Lead dinitrate	233-245-9	10099-74-8	12-19-2012
Lead monoxide (lead oxide)	215-267-0	1317-36-8	12-19-2012

Lead oxide sulfate	234-853-7	12036-76-9	12-19-2012
Lead titanium trioxide	235-038-9	12060-00-3	12-19-2012
Lead titanium zirconium oxide	235-727-4	12626-81-2	12-19-2012
Methoxy acetic acid	210-894-6	625-45-6	12-19-2012
Methyl oxirane (Propylene oxide)	200-879-2	75-56-9	12-19-2012
N,N-dimethylformamide	200-679-5	68-12-2	12-19-2012
N-methylacetamide	201-182-6	79-16-3	12-19-2012
N-pentylisopentylphthalate		776297-69-9	12-19-2012
o-aminotoluene	202-591-2	97-56-3	12-19-2012
o-Toluidine	202-429-0	95-53-4	12-19-2012
Orange lead (lead tetroxide)	215-235-6	1314-41-6	12-19-2012
Pentacosyltridecanoic acid	276-745-2	72629-94-8	12-19-2012
Pentalead tetraoxide sulphate	235-067-7	12065-90-6	12-19-2012
Pyrochlore, antimony lead yellow	232-382-1	8012-00-8	12-19-2012
Silicic acid (H_2SiO_5), 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
Silicic acid, lead salt	234-363-3	11120-22-2	12-19-2012
Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7	12-19-2012
Tetraethyllead	201-075-4	78-00-2	12-19-2012
Tetralead trioxide sulphate	235-380-9	12202-17-4	12-19-2012
Tricosyltridecanoic acid	206-203-2	307-55-1	12-19-2012
Trilead bis(carbonate) dihydroxide	215-290-6	1319-46-6	12-19-2012
Trilead dioxide phosphonate	235-252-2	12141-20-7	12-19-2012
1,2-bis(2-methoxyethoxy)ethane (TEGDME, triglyme)	203-977-3	112-49-2	6-18-2012
1,2-dimethoxyethane, ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4	6-18-2012
1,3,5-Tris(oxirane-2-ylmethyl)-1,3,5-triazine-2,4,6-trione (TGIC)	219-514-3	2451-62-9	6-18-2012
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
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with $\geq 0.1\%$ 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
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8	6-18-2012
[4-[4,4'-bis(dimethylamino)benzylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with $\geq 0.1\%$ 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
[4-[[4-anilino-1-naphthyl]-(dimethylamino)phenyl]methylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26) [with $\geq 0.1\%$ 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
Diboron trioxide	215-125-8	1303-86-2	6-18-2012
Formamide	200-842-0	75-12-7	6-18-2012
Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2	6-18-2012
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1	6-18-2012
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)]	229-851-8	6786-83-0	6-18-2012

1,2-Dichloroethane	203-458-1	107-06-2	12-19-2011
2,2'-dichloro-4,4'-methylene dianiline	202-918-9	101-14-4	12-19-2011
2-Methoxy aniline, o-Anisidine	201-963-1	90-04-0	12-19-2011
4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9	12-19-2011
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 than 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 than or equal to 18% by weight			12-19-2011
Arsenic acid	231-901-9	7778-39-4	12-19-2011
Bis(2-methoxyethyl) ether	203-924-4	111-96-6	12-19-2011
Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	12-19-2011
Calcium arsenate	231-904-5	7778-44-1	12-19-2011
Dichromium tris(chromate)	246-356-2	24613-89-6	12-19-2011
Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4	12-19-2011
Lead diazide, Lead azide	236-542-1	13424-46-9	12-19-2011
Lead dipicrate	229-335-2	6477-64-1	12-19-2011
Lead stannate	239-290-0	15245-44-0	12-19-2011
N,N-dimethylacetamide	204-826-4	127-19-5	12-19-2011
Pentazinc chromate octahydroxide	256-418-0	49663-84-5	12-19-2011
Phenolphthalein	201-004-7	77-09-8	12-19-2011
Potassium hydroxide octaoxidodichromate	234-329-8	11103-86-9	12-19-2011
Trilead diarsenate	222-979-5	3687-31-8	12-19-2011
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 than 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 than or equal to 18% by weight			12-19-2011
Cobalt dichloride	231-589-4	7646-79-9	2011/06/20 - 2008/10/28
1,2,3-trichloropropane	202-486-1	96-18-4	6-20-2011
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6	6-20-2011
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4	6-20-2011
1-Methyl-2-pyrrolidone (NMP)	212-828-1	872-50-4	6-20-2011
2-Ethoxyethyl acetate	203-839-2	111-15-9	6-20-2011
Hydrazine	206-114-9	302-01-2, 7803-57-8	6-20-2011
Strontium chromate	232-142-6	7789-6-2,	6-20-2011
2-Ethoxy ethanol	203-804-1	110-80-5	12-15-2010
2-Methoxy ethanol	203-713-7	109-86-4	12-15-2010

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
Chromium trioxide	215-607-8	1333-82-0	12-15-2010
Cobalt(II) carbonate	208-169-4	513-79-1	12-15-2010
Cobalt(II) diacetate	200-755-8	71-48-7	12-15-2010
Cobalt(II) dinitrate	233-402-1	10141-05-6	12-15-2010
Cobalt(II) sulphate	233-334-2	10124-43-3	12-15-2010
Ammonium dichromate	232-143-1	7789-9-5,	6-18-2010
Boric acid	233-139-2, 234-343-4	10043-35-3, 11113-50-1	6-18-2010
Disodium tetraborate, anhydrous	215-540-4	1303-96-4, 1330-43-4, 12179-04-3	6-18-2010
Potassium chromate	232-140-5	7789-00-6	6-18-2010
Potassium dichromate	231-906-6	7778-50-9	6-18-2010
Sodium chromate	231-889-5	7775-11-3,	6-18-2010
Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1	6-18-2010
Trichloroethylene	201-167-4	79-01-6	6-18-2010
Acrylamide	201-173-7	79-06-1	3-30-2010
2,4-Dinitrotoluene	204-450-0	121-14-2	1-13-2010
Anthracene oil	292-602-7	90640-80-5	1-13-2010
Anthracene oil, anthracene paste	292-603-2	90640-81-6	1-13-2010
Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2	1-13-2010
Anthracene oil, anthracene paste, distn. lights	295-278-5	91995-17-4	1-13-2010
Anthracene oil, anthracene-low	292-604-8	90640-82-7	1-13-2010
Diisobutyl phthalate	201-553-2	84-69-5	1-13-2010
Lead chromate	231-846-0	7758-97-6	1-13-2010
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8	1-13-2010
Lead sulphochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2	1-13-2010
Pitch, coal tar, high temp.	266-028-2	65996-93-2	1-13-2010
Tris(2-chloroethyl)phosphate	204-118-5	115-96-8	1-13-2010
4,4'-Diaminodiphenylmethane (MDA)	202-974-4	101-77-9	10-28-2008
5-tert-butyl-2,4,6-trinitro-m-xylene (Muskxylene)	201-329-4	81-15-2	10-28-2008
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8	10-28-2008
Anthracene	204-371-1	120-12-7	10-28-2008
Benzyl butyl phthalate (BBP)	201-622-7	85-68-7	10-28-2008
Bis(tributyltin) oxide (TBTO)	200-268-0	56-35-9	10-28-2008
Diarsenic pentaoxide	215-116-9	1303-28-2	10-28-2008
Diarsenic trioxide	215-481-4	1327-53-3	10-28-2008
Dibutyl phthalate (DBP)	201-557-4	84-74-2	10-28-2008
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
Lead hydrogen arsenate	232-064-2	7784-40-9	10-28-2008
Sodium dichromate	234-190-3	7789-12-0, 10588-01-9	10-28-2008
Triethyl arsenate	427-700-2	15606-95-8	10-28-2008
4,4'-isopropylidenediphenol	201-245-8	80-05-7	12-01-2017
4-heptylphenol, branched and linear	-	-	12-01-2017
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	221-470-5 206-400-3	3830-45-3 3108-42-7 335-76-2	12-01-2017
Decanoic acid, nonadecafluoro-, sodium salt			

WIZnet Co., Ltd

5F Humax Village, 216 Hwangsaoul-ro, Bundang-Gu Seongnam-Si, Gyeonggi-Do 13595
Tel. +82-31-8023-5678 Fax. +82-31-8022-8090 www.wiznet.co.kr



Ammonium nonadecafluorodecanoate Nonadecafluorodecanoicacid			
p-(1,1-dimethylpropyl)phenol	201-280-9	80-46-6	12-01-2017
Perfluorohexane-1-sulphonic acid and its salts			07-07-2017