

Table A6. Hazardous Substances List of Yanmar investigated (the first half of 2013)

*1. The gross weight of lead, mercury, cadmium, and hexavalent chrome is 0.01wt% or less for packaging and packaging waste.

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	CAS	Substances	Synonyms		Thres hold	Remark	revision
1	56-23-5	Carbon tetrachloride (Tetrachloromethane)	CC14 (CTC)	P	0.0	Law Concerning the Protection of the Ozone Layer through the Regulation of Specified Substances and Other Measures Japan,	REV5.1
2	56-35-9	Ttributyl Tin Oxide (TBTO) *4		P	0.0	Law Concerning the Evaluation of Chemical Substances and Regulation of Their Manufacturing, etc. Japan/Specified Chemical Substances, class 1	REV5.1
3	92-87-5 others	Benzidine and salt Benzidine and derivatives		P	0.0	Law Concerning the Evaluation of Chemical Substances and Regulation of Their Manufacturing, etc. Japan/Specified Chemical Substances, class 1 EU REACH Regulations Annex XVII (Restricted the usage and applications. Shall not be placed on the market, or used, as substances or in mixtures in concentrations greater than 0,1 % by weight)	REV5.1
4	92-67-1 others	4-aminodiphenyl and salt Biphenyl-4-amine		P	0.0	Law Concerning the Evaluation of Chemical Substances and Regulation of Their Manufacturing, etc. Japan/Specified Chemical Substances, class 1 EU REACH Regulations Annex XVII (Restricted the usage and applications. EU REACH Regulations SVHC	REV5.20
5	1332-21-4	Asbestos *4		P	0.1wt %	Added intentionally shall be prohibited.	REV5.1
6	12001-28-4	Crocidolite *4		P	0.1wt %	Added intentionally shall be prohibited.	REV5.1

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7	12172-73-5	Amosite *4		P	0.1wt %	Added intentionally shall be prohibited.	REV5.1
8	77536-67-5	Anthophyllite *4		P	0.1wt %	Added intentionally shall be prohibited.	REV5.1
9	77536-66-4	Actinolite *4		P	0.1wt %	Added intentionally shall be prohibited.	REV5.1
10	12001-29-5	Tremolite *4		P	0.1wt %	Added intentionally shall be prohibited.	REV5.1
11	132207-32-0	Chrysotile *4		P	0.1wt %	Added intentionally shall be prohibited.	REV5.1
12	92-93-3 others	4-Nitrodiphenyl and salt		P	0.0	Occupational Health and Safety Law Japan/ Substances that are restricted the production (Article 56, 17) EU REACH Regulations Annex XVII (Restricted the usage and applications. Shall not be placed on the market, or used, as substances or in mixtures in concentrations greater than 0,1 % by weight)	REV5.1
13	91-59-8 others	b-naphthylamine and salt 2-naphthylamine		P	0.0	Occupational Health and Safety Law Japan/ Substances that are restricted the production (Article 56, 17) EU REACH Regulations Annex XVII (Restricted the usage and applications. Shall not be placed on the market, or used, as substances or in mixtures in concentrations greater than 0,1 % by weight)	REV5.1

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	CAS	Substances	Synonyms		Thres hold	Remark	revision
14	7439-92-1 others	Lead and compounds *1*2*4		P	0.1wt %	Yanmar voluntary regulation EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US	REV5.1
15	7439-97-6 others	Mercury and compounds *1*2*4		P	0.1wt %	Yanmar voluntary regulation EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US	REV5.1
16	62-38-4	Phenylmercuric acetate		P	0.01 w%	Yanmar voluntary regulation	REV5.20
17	103-27-5	Mercury, phenyl(propanoato-	Phenylmercury propionate	P	0.01 w%	EU REACH Regulations Annex XVII (restricted the usage and applications) Articles or any parts thereof containing one or more of these substances shall not be placed on the market after 10 October 2017 if the	REV5.20
18	13302-00-6	Mercury, (2-ethylhexanoato-O)phenyl-	Phenylmercury 2-ethylhexanoate	P	0.01 w%		REV5.20
19	13864-38-5	Phenylmercury octanoate		P	0.01 w%		REV5.20
20	26545-49-3	Mercury, (neodecanoato-O)phenyl-	Phenylmercury neodecanoate	P	0.01 w%		REV5.20
21	7440-43-9 others	Cadmium and compounds *1*2*4		P	0.01w t%		Yanmar voluntary regulation EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US EU REACH Regulations Annex XVII (restricted the usage and applications)
22	18540-29-9 others	Hexavalent chrome and compounds *1*2*4		P	0.1wt %	Yanmar voluntary regulation EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US	REV5.1

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	CAS	Substances	Synonyms		Thres hold	Remark	revision
23	59536-65-1	Polybrominated biphenyls (PBB) *4	Hexabromodiphenyl	P	0.0	Law Concerning the Evaluation of Chemical Substances and Regulation of Their Manufacturing, etc. Japan/Specified Chemical Substances, class 1 EU REACH Regulations Annex XVII (restricted the usage and applications) Shall not be used in textile articles, such as garments, undergarments and linen, intended to come into contact with the skin.	REV5.1
24	61788-33-8	Polychlorinated terphenyl (PCTs)		P	0.0	Rotterdam Convention (PIC) / Substances described in Annex III	REV5.1
25	75-01-4	Vinyl chloride		M	0.1wt %	EU REACH Regulations Annex XVII (restricted the usage and applications)	REV5.1
26	126-72-7	Tris (2, 3-dibromopropyl) phosphate		P	0.0	Rotterdam Convention (PIC) / Substances described in Annex III	REV5.1
27	71-43-2	Benzene		P	0.1wt %	EU REACH Regulations Annex XVII (restricted the usage and applications)	REV5.20
28	5455-55-1	Tris-aziridinyl phosphin oxide		P	0.0	EU REACH Regulations Annex XVII (restricted the usage and applications)	REV5.1
29	598-63-0	Lead carbonate *1*2*4		P	0.1wt %	Yanmar voluntary regulation EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US Added intentionally to paint shall be prohibited.	REV5.1

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	CAS	Substances	Synonyms		Thres hold	Remark	revision
30	1319-46-6	Lead(II) carbonate *1*2*4		P	0.1wt %	Yanmar voluntary regulation EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US EU REACH Regulations SVHC Added intentionally to paint shall be prohibited.	REV5.1
31	15739-80-7	Lead sulfate *1*2*4		P	0.1wt %	Yanmar voluntary regulation EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US Added intentionally to paint shall be prohibited.	REV5.20
32	7446-14-2	Lead(II) sulfate *1*2*4		P	0.1wt %	Yanmar voluntary regulation EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US Added intentionally to paint shall be prohibited.	REV5.1
33	—	Arsenic compound		P	0.0wt %	EU REACH Regulations Annex XVII (restricted the usage and applications) There are some applications excluded from applicability	REV5.20
34	—	Organotin tin compound Except for the following three substances *4		P	0.0wt %	EU REACH Regulations Annex XVII (restricted the usage and applications)	REV5.12
35	—	Tri-substituted organostannic compounds *4		P	0.1wt %	EU REACH Regulations Annex XVII (restricted the usage and applications)	REV5.12

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	CAS	Substances	Synonyms		Thres hold	Remark	revision
36	—	Dibutyltin (DBT) compounds *4		P	0.1wt %	EU REACH Regulations Annex XVII (restricted the usage and applications)	REV5.12
37	—	Diocetyl tin (DOT) compound *4		P	0.1wt %	EU REACH Regulations Annex XVII (restricted the usage and applications) There are some exemptions to the application by 2015.1.1	REV5.12
38	75113-37-0	Dioxastannaboretan e		P	0.1wt %	EU REACH Regulations Annex XVII (restricted the usage and applications) There are some applications excluded from applicability	REV5.1
39	683-18-1	Dibutyltin dichloride (DBT)		M	0.1w%	EU REACH Regulations SVHC	REV5.20
40	87-86-5 131-52-2	Pentachlorophenol, pentachlorophenol salt, and ester compound of pentachlorophenol		P	0.1wt %	EU REACH Regulations Annex XVII (restricted the usage and applications) There are some applications excluded from applicability	REV5.1
41	76253-60-6	Monomethyl-tetrachlorodiphenyl		P	0.0	EU REACH Regulations Annex XVII (restricted the usage and applications) There are some applications excluded from applicability	REV5.1
42	—	Monomethyl-dichloro-diphenyl methane		P	0.0	EU REACH Regulations Annex XVII (restricted the usage and applications) There are some applications excluded from applicability	REV5.1
43	99688-47-8	Monomethyl-dibromo-diphenyl methane		P	0.0	EU REACH Regulations Annex XVII (restricted the usage and applications) There are some applications excluded from applicability	REV5.1
44	67-66-3	Chloroform		M	0.1wt %	EU REACH Regulations Annex XVII (restricted the usage and applications) Substance and compound for the	REV5.1

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45	79-00-5	1,1,2-trichloroethane, Vinyl trichloride		M	0.1wt %	EU REACH Regulations Annex XVII (restricted the usage and applications) Substance and compound for the	REV5.1
46	79-34-5	1,1,2,2-tetrachloroethane		M	0.1wt %	EU REACH Regulations Annex XVII (restricted the usage and applications) Substance and compound for the	REV5.1
47	75-35-4	1, 1-dichloroethane; vinyldene dichloride	1, 1-dichloroethane; vinyldene dichloride	M	0.1wt %	EU REACH Regulations Annex XVII (restricted the usage and applications) Substance and compound for the	REV5.1
48	67-72-1	Hexachloroethane		M	0.1wt %	EU REACH Regulations Annex XVII (restricted the usage and applications) The Production and processing of nonferrous metal	REV5.1
49	85535-84-8	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins *4)		M	0.1wt %	EU REACH Regulations Annex XVII (restricted the usage and applications) Metal processing	REV5.1
50	—	Azo dyes		M	0.1wt %	EU REACH Regulations Annex XVII (restricted the usage and applications) Clothing, bedclothing, and	REV5.1
51	32536-52-0	Octabromodiphenyl ether (Octa-BDE)		P	0.1wt %	EU REACH Regulations Annex XVII (restricted the usage and applications) Shall be prohibited in a concentration equal to or greater than 0.1 %	REV5.1
52	25154-52-3	Nonylphenol		P	0.1wt %	EU REACH Regulations Annex XVII (restricted the usage and applications) Shall be prohibited in a concentration equal to or greater than 0.1 %	REV5.1

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53	—	Nonylphenoethoxylates		P	0.1wt %	EU REACH Regulations Annex XVII (restricted the usage and applications) Shall be prohibited in a concentration equal to or greater than 0.1 %	REV5.1
54	—	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		M	0.1 w %	EU REACH Regulations SVHC	REV5.20
55	108-88-3	Toluene		M	0.1wt %	EU REACH Regulations Annex XVII (restricted the usage and applications) Substance and compound for the	REV5.1
56	120-82-1 12002-48-1	Trichlorobenzene		M	0.1wt %	EU REACH Regulations Annex XVII (restricted the usage and applications)	REV5.1
57	50-32-8	Benzo[a]pyrene		P	0.1wt %	EU REACH Regulations Annex XVII (restricted the usage and applications) There are some applications excluded from applicability	REV5.1
58	192-97-2	Benzo[e]pyrene		P	0.1wt %	EU REACH Regulations Annex XVII (restricted the usage and applications) There are some applications excluded from applicability	REV5.1
59	56-55-3	Benzo[a]anthracene		P	0.1wt %	EU REACH Regulations Annex XVII (restricted the usage and applications) There are some applications excluded from applicability	REV5.1

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60	218-01-9	Chrysene		P	0.1wt %	EU REACH Regulations Annex XVII (restricted the usage and applications) There are some applications excluded from applicability	REV5.1
61	205-99-2	Benzo[b]fluoranthene		P	0.1wt %	EU REACH Regulations Annex XVII (restricted the usage and applications) There are some applications excluded from applicability	REV5.1
62	205-82-3	Benzo[j]fluoranthene		P	0.1wt %	EU REACH Regulations Annex XVII (restricted the usage and applications) There are some applications excluded from applicability	REV5.1
63	207-08-9	Benzo[k]fluoranthene		P	0.1wt %	EU REACH Regulations Annex XVII (restricted the usage and applications) There are some applications excluded from applicability	REV5.1
64	53-70-3	Dibenzo[a,H]anthracene		P	0.1wt %	EU REACH Regulations Annex XVII (restricted the usage and applications) There are some applications excluded from applicability	REV5.1
65	117-81-7	Bis (2-ethylhexyl) phthalate (DEHP) Di (2-ethylhexyl) phthalate		M	0.1wt %	EU REACH Regulations Annex XVII (restricted the usage and applications) Shall not be used as substances or as constituents of preparations, at concentrations higher than 0,1 % by mass of the plasticised material, in toys and childcare art	REV5.1

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66	84-74-2 201-557-4	Dibutyl phthalate (DBP), di-n-butyl phthalate		M	0.1wt %	EU REACH Regulations Annex XVII (restricted the usage and applications) Shall not be used as substances or as constituents of preparations, at concentrations higher than 0,1 % by mass of the plasticised material, in toys and childcare art	REV5.1
67	28553-12-0 68515-48-0	di-isononyl phthalate (DINP)		M	0.1wt %	EU REACH Regulations Annex XVII (restricted the usage and applications) Shall not be used as substances or as constituents of preparations, at concentrations higher than 0,1 % by mass of the plasticised material, in toys and childcare art	REV5.1
68	84777-06-0	1,2-Benzenedicarboxylic acid, dipentylester, branched and		M	0.1 w %	EU REACH Regulations SVHC	REV5.20
69	605-50-5	Diisopentylphthalate		M	0.1 w %	EU REACH Regulations SVHC	REV5.20
70	776297-69-9	N-pentyl-isopentylphthalate		M	0.1 w %	EU REACH Regulations SVHC	REV5.20
71	121-14-2	2,4-Dinitrotoluene		P	0.0	EU REACH Regulations Annex XIV (authorisations)	REV5.1
72	111-77-3	2- (2-Methoxyethoxy) ethanol (DEGME)		P	0.1wt %	EU REACH Regulations Annex XVII (restricted the usage and applications) Painting, cleaning agent equal to or greater than 0,1 % by weight.	REV5.1
73	112-34-5	2- (2-Butoxyethoxy) ethanol (DEGBE)		P	0.1wt %	EU REACH Regulations Annex XVII (restricted the usage and applications) spray paints or spray cleaners in aerosol dispensers in concentrations equal to or greater than 3 % by weight	REV5.1

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74	26447-40-5	Diphenylmethane diisocyanate (MDI)		P	0.1wt %	EU REACH Regulations Annex XVII (restricted the usage and applications) general usage equal to or greater than 0,1 % by weight.	REV5.1
75	79-06-1 201-173-7	Acrylamide		M	0.1wt %	EU REACH Regulations Annex XVII (restricted the usage and applications) Shall not be placed on the market or used as a substance or constituent of mixtures in a concentration, equal to or greater than 0,1 % by weight for grouting applications after 5 November 2012 .	REV5.1
76	101-77-9 202-974-4	4,4'-Diaminodiphenylmethane (MDA), 4,4'-methylenedianiline		P	0.0	EU REACH Regulations Annex XIV (authorisations)	REV5.1
77	81-15-2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk)		P	0.0	EU REACH Regulations Annex XIV (authorisations)	REV5.1
78	120-12-7 204-371-1	Anthracene		M	0.1wt %	EU REACH Regulations SVHC	REV5.1
79	292-602-7 90640-80-5	Anthracene oil		M	0.1wt %	EU REACH Regulations SVHC	REV5.1
80	292-603-2 90640-81-6	Anthracene oil, anthracene paste		M	0.1wt %	EU REACH Regulations SVHC	REV5.1
81	295-275-9 91995-15-2	Anthracene oil, anthracene paste, anthracene		M	0.1wt %	EU REACH Regulations SVHC	REV5.1
82	295-278-5 91995-17-4	Anthracene oil, anthracene paste, distn. lights		M	0.1wt %	EU REACH Regulations SVHC	REV5.1
83	292-604-8 90640-82-7	Anthracene oil, anthracene-low		M	0.1wt %	EU REACH Regulations SVHC	REV5.1

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84	85-68-7 201-622-7	Benzyl butyl phthalate (BBP)		P	0.1wt %	EU REACH Regulations Annex XIV (authorisations) EU REACH Regulations Annex XVII (restricted the usage and applications) Shall not be used as substances or as constituents of preparations, at concentrations higher than 0,1 % by mass of the plasticised material, in toys and childcare art	REV5.1
85	68515-49-1 26761-40-0	Di-isodecyl phthalate (DIDP)		M	0.1 w %	EU REACH Regulations Annex XVII (restricted the usage and applications) Shall not be used as substances or as constituents of preparations, at concentrations higher than 0,1 % by mass of the plasticised material, in toys and childcare art	REV5.20
86	117-84-0	Di-n-octyl phthalate (DNOP)		M	0.1 w %	EU REACH Regulations Annex XVII (restricted the usage and applications) Shall not be used as substances or as constituents of preparations, at concentrations higher than 0,1 % by mass of the plasticised material, in toys and childcare art	REV5.20
87	7646-79-9	Cobalt dichloride	CoCl2	M	0.1wt %	EU REACH Regulations SVHC	REV5.1
88	215-116-9 1303-28-2	Diarsenic pentaoxide		P	0.0	EU REACH Regulations Annex XIV (authorisations)	REV5.1
89	215-481-4 1327-53-3	Diarsenic trioxide	ARSENIC TRIOXIDE, Arsenic (III) oxide , Arsenous oxide anhydride	P	0.0	EU REACH Regulations Annex XIV (authorisations)	REV5.1
90	84-69-5 201-553-2	Diisobutyl phthalate		P	0.0	EU REACH Regulations Annex XIV (authorisations)	REV5.1

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91	134237-51-7 134237-50-6 134237-52-8 25637-99-4 3194-55-6	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane, Beta-hexabromocyclododecane, Gamma-hexabromocyclododecane		P	0.0	EU REACH Regulations Annex XIV (authorisations)	REV5.1
92	231-846-0 7758-97-6	Lead chromate		P	0.1wt %	Yanmar voluntary regulation EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US	REV5.1
93	12656-85-8	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	Lead chromate molybdate sulphate red/C.I.	P	0.1wt %	Yanmar voluntary regulation EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US	REV5.1
94	7784-40-9	Lead hydrogen arsenate		P	0.0	Rotterdam Convention (PIC) / Substances described in Annex III	REV5.1
95	1344-37-2	Lead sulfochromate yellow (C.I. Pigment Yellow 34)		P	0.0	EU REACH Regulations Annex XIV (authorisations)	REV5.1
96	51404-69-4	Acetic acid, lead salt, basic		P	0.1w% ※1※ 2	Yanmar voluntary regulation EU RoHS Directive EU ELV Directive EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US	REV5.20

Table A6. Hazardous Substances List of Yanmar investigated (the first half of 2013)

*1. The gross weight of lead, mercury, cadmium, and hexavalent chrome is 0.01wt% or less for packaging and packaging waste.

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*3. The prohibition beginning of on the market is done by revision REACH Directive that it prohibited according to the REACH revision of rules in February, 2012.

*4. Make the denominator of table A-B description material in the International Convention for Ship Recycl correspondence parts a homogeneous material. Report regardless of *2 the exclusion usage.

	CAS	Substances	Synonyms		Thres hold	Remark	revision
97	12036-76-9	Lead oxide sulfate (Pb2O(SO4))		P	0.1w% ※1※ 2	Yanmar voluntary regulation EU RoHS Directive EU ELV Directive EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US EU REACH Regulations SVHC	REV5.20
98	69011-06-9	Lead, [1,2-benzenedicarboxylato(2-)]dioxotri-		P	0.1w% ※1※ 2	Yanmar voluntary regulation EU RoHS Directive EU ELV Directive EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US EU REACH Regulations SVHC	REV5.20
99	12578-12-0	dioxobis(stearato)trilead		P	0.1w% ※1※ 2	Yanmar voluntary regulation EU RoHS Directive EU ELV Directive EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US EU REACH Regulations SVHC	REV5.20
100	91031-62-8	Fatty acids, C16-18, lead salts		P	0.1w% ※1※ 2	Yanmar voluntary regulation EU RoHS Directive EU ELV Directive EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US EU REACH Regulations SVHC	REV5.20

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	CAS	Substances	Synonyms		Thres hold	Remark	revision
101	13814-96-5	Lead fluoborate		P	0.1w% ※1※ 2	Yanmar voluntary regulation EU RoHS Directive EU ELV Directive EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US EU REACH Regulations SVHC	REV5.20
102	20837-86-9	Lead cyanamide		P	0.1w% ※1※ 2	Yanmar voluntary regulation EU RoHS Directive EU ELV Directive EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US EU REACH Regulations SVHC	REV5.20
103	10099-74-8	Lead nitrate		P	0.1w% ※1※ 2	Yanmar voluntary regulation EU RoHS Directive EU ELV Directive EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US EU REACH Regulations SVHC	REV5.20
104	1317-36-8	Lead monoxide	Lead (II) oxide	P	0.1w% ※1※ 2	Yanmar voluntary regulation EU RoHS Directive EU ELV Directive EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US EU REACH Regulations SVHC	REV5.20

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	CAS	Substances	Synonyms		Thres hold	Remark	revision
105	1314-41-6	Lead tetraoxide		P	0.1w% ※1※ 2	Yanmar voluntary regulation EU RoHS Directive EU ELV Directive EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US EU REACH Regulations SVHC	REV5.20
106	8012-00-8	Pyrochlore, antimony lead yellow		P	0.1w% ※1※ 2	Yanmar voluntary regulation EU RoHS Directive EU ELV Directive EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US	REV5.20
107	12060-00-3	Lead titanium oxide (PbTiO ₃)		P	0.1w% ※1※ 2	Yanmar voluntary regulation EU RoHS Directive EU ELV Directive EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US EU REACH Regulations SVHC	REV5.20
108	12626-81-2	Lead titanium zirconium oxide (Pb(Ti,Zr)O ₃)		P	0.1w% ※1※ 2	Yanmar voluntary regulation EU RoHS Directive EU ELV Directive EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US EU REACH Regulations SVHC	REV5.20

Table A6. Hazardous Substances List of Yanmar investigated (the first half of 2013)

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*4. Make the denominator of table A-B description material in the International Convention for Ship Recycl correspondence parts a homogeneous material. Report regardless of *2 the exclusion usage.

	CAS	Substances	Synonyms		Thres hold	Remark	revision
109	12065-90-6	Lead oxide sulfate (Pb504 (SO4))		P	0.1w% ※1※ 2	Yanmar voluntary regulation EU RoHS Directive EU ELV Directive EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US EU REACH Regulations SVHC	REV5.20
110	68784-75-8	Silicic acid, barium salt, lead-doped		M	0.1w%	EU REACH Regulations SVHC	REV5.20
111	11120-22-2	Lead silicate		P	0.1w% ※1※ 2	Yanmar voluntary regulation EU RoHS Directive EU ELV Directive EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US EU REACH Regulations SVHC	REV5.20
112	62229-08-7	Sulfurous acid, lead salt, dibasic		P	0.1w% ※1※ 2	Yanmar voluntary regulation EU RoHS Directive EU ELV Directive EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US EU REACH Regulations SVHC	REV5.20
113	78-00-2	Tetraethyl lead		P	0.0w%	Rotterdam Convention (PIC) / Substances described in Annex III	REV5.20
114	12202-17-4	Lead oxide sulfate (Pb403 (SO4))		P	0.1w% ※1※ 2	Yanmar voluntary regulation EU RoHS Directive EU ELV Directive EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US	REV5.20

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	CAS	Substances	Synonyms		Thres hold	Remark	revision
115	12141-20-7	Lead oxide phosphonate (Pb3O2 (HP03))		P	0.1wt% ※1※ 2	Yanmar voluntary regulation EU RoHS Directive EU ELV Directive EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US EU REACH Regulations SVHC	REV5.20
116	65996-93-2	Pitch, coal tar, high temp.		M	0.1wt %	EU REACH Regulations SVHC	REV5.1
117	234-190-3 10588-01-9	Sodium dichromate		P	0.1wt %	Yanmar voluntary regulation EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US	REV5.1
118	427-700-2 15606-95-8	Triethyl arsenate		M	0.1wt %	EU REACH Regulations SVHC	REV5.1
119	115-96-8 204-118-5	Tris (2-chloroethyl) phosphate		P	0.0	EU REACH Regulations Annex XIV (authorisations)	REV5.1
120	79-01-6 201-167-4	Trichloroethylene		M	0.1wt %	EU REACH Regulations SVHC	REV5.1
121	233-139-2 234-343-4 10043-35-3 11113-50-1	Boric acid		M	0.1wt %	EU REACH Regulations SVHC	REV5.1
122	215-540-4 1303-96-4 1330-43-4 12179-04-3	Disodium tetraborate, anhydrous		M	0.1wt %	EU REACH Regulations SVHC	REV5.1
123	235-541-3 12267-73-1	Tetraboron disodium		M	0.1wt %	EU REACH Regulations SVHC	REV5.1

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	CAS	Substances	Synonyms		Thres hold	Remark	revision
124	232-140-5 7789-00-6	Potassium chromate *1*2*4		P	0.1wt %	Yanmar voluntary regulation EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US EU REACH Regulations Annex XVII (restricted the usage and applications) Cement, packaging, etc.more than 0,0002 % of the total dry weight	REV5.1
125	231-889-5 7775-11-3	Sodium chromate *1*2*4		P	0.1wt %	Yanmar voluntary regulation EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US EU REACH Regulations Annex XVII (restricted the usage and applications) Cement, packaging, etc.more than 0,0002 % of the total dry weight	REV5.1
126	232-143-1 7789-09-5	Ammonium dichromate *1*2*4		P	0.1wt %	Yanmar voluntary regulation EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US EU REACH Regulations Annex XVII (restricted the usage and applications) Cement, packaging, etc.more than 0,0002 % of the total dry weight	REV5.1

Table A6. Hazardous Substances List of Yanmar investigated (the first half of 2013)

*1. The gross weight of lead, mercury, cadmium, and hexavalent chrome is 0.01wt% or less for packaging and packaging waste.

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	CAS	Substances	Synonyms		Thres hold	Remark	revision
127	7778-50-9	Potassium dichromate *1*2*4		P	0.1wt %	Yanmar voluntary regulation EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US EU REACH Regulations Annex XVII (restricted the usage and applications) Cement, packaging, etc.more than 0,0002 % of the total dry weight	REV5.1
128	10124-43-3	Cobalt (II) sulphate		M	0.1wt %	EU REACH Regulations SVHC	REV5.1
129	10141-05-6	Cobalt (II) dinitrate		M	0.1wt %	EU REACH Regulations SVHC	REV5.1
130	513-79-1	Cobalt (II) carbonate		M	0.1wt %	EU REACH Regulations SVHC	REV5.1
131	71-48-7	Cobalt (II) diacetate		M	0.1wt %	EU REACH Regulations SVHC	REV5.1
132	109-86-4	2-Methoxyethanol, ethylene glycol monomethyl ether		M	0.1wt %	EU REACH Regulations SVHC	REV5.1
133	110-80-5	2-Ethoxyethanol, ethylene glycol monoethyl ether		M	0.1wt %	EU REACH Regulations SVHC	REV5.1
134	1333-82-0	Chromium trioxide *1*2*4	Chromic acid anhydride	P	0.1wt %	Yanmar voluntary regulation EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US	REV5.1
135	7738-94-5 13530-68-2 --	Acids generated from chromium trioxide and their oligomers Group containing:Chromic acid Group containing:Dichromic acid Oligomers of chromic acid and dichromic acid *1*2*4		M	0.1wt %	Yanmar voluntary regulation EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US	REV5.1

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	CAS	Substances	Synonyms		Thres hold	Remark	revision
136	111-15-9	2-ethoxyethyl acetate; ethylene glycol monoethyl ether acetate	ethylene glycol monoethyl ether acetate	M	0.1wt %	EU REACH Regulations SVHC	REV5.1
137	7789-6-2	Strontium chromate *1*2*4		P	0.1wt %	Yanmar voluntary regulation EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US	REV5.1
138	68515-42-4	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)		M	0.1wt %	EU REACH Regulations SVHC	REV5.1
139	302-01-2 7803-57-8	Hydrazine		M	0.1wt %	EU REACH Regulations SVHC	REV5.1
140	872-50-4	1-methyl-2-pyrrolidone, N-Methylpyrrolidone	N-Methylpyrrolidone	M	0.1wt %	EU REACH Regulations SVHC	REV5.1
141	96-18-4	1,2,3-trichloropropane		M	0.1wt %	EU REACH Regulations SVHC	REV5.1
142	71888-89-6	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)		M	0.1wt %	EU REACH Regulations SVHC	REV5.1
143	24613-89-6	Chromium III chromate; chromic chromate		M	0.1wt %	EU REACH Regulations SVHC	REV5.1
144	11103-86-9	potassium hydroxyoctaoxidizincatedichromate (1-		M	0.1wt %	EU REACH Regulations SVHC	REV5.1
145	49663-84-5	pentazine chromate octahydroxide		M	0.1wt %	EU REACH Regulations SVHC	REV5.1
146	650-017-00-8	CERAMIC FIBRES (ALUMINOSILICATE)		M	0.1wt %	EU REACH Regulations SVHC	REV5.1
147	650-017-00-8	Aluminosilicate Refractory Ceramic Fibres		M	0.1wt %	EU REACH Regulations SVHC	REV5.1
148	25214-70-4	Formaldehyde, polymer with benzenamine		M	0.1wt %	EU REACH Regulations SVHC	REV5.1
149	117-82-8	Bis (2-methoxyethyl) phthalate		M	0.1wt %	EU REACH Regulations SVHC	REV5.1
150	90-04-0	o-Anisidine		M	0.1wt %	EU REACH Regulations SVHC	REV5.1
151	140-66-9	4-tert-Octylphenol		M	0.1wt %	EU REACH Regulations SVHC	REV5.1

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	CAS	Substances	Synonyms		Thres hold	Remark	revision
152	—	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues		M	0.1wt%	EU REACH Regulations SVHC	REV5.20
153	107-06-2	Ethylene dichloride (1,2-Dichloroethane)		P	0.1wt %	EU REACH Regulations SVHC	REV5.1
154	111-96-6	2-Methoxyethyl ether	DEDM;glyme2;DIGLYME;Glyme-2;DIYGLME;'DIGLYME';Poly-Solv;Catafor MS;Dricoid	M	0.1wt %	EU REACH Regulations SVHC	REV5.1
155	7778-39-4	Arsenic acid		M	0.1wt %	EU REACH Regulations SVHC	REV5.1
156	7778-44-1	Calcium arsenate		M	0.1wt %	EU REACH Regulations SVHC	REV5.1
157	3687-31-8	Lead arsenate		M	0.1wt %	EU REACH Regulations SVHC	REV5.1
158	127-19-5	N,N-dimethylacetamide		M	0.1wt %	EU REACH Regulations SVHC	REV5.1
159	101-14-4	3,3'-dichloro-4,4'-diaminodiphenylmethane	4,4'-Methylene bis(2-chloroaniline) MOCA;DACPM;ld813;MBOCA;CL-MDA;LD813;MOCA-A;bisamine;curalin m;Cyanaset	M	0.1wt %	EU REACH Regulations SVHC	REV5.1
160	77-09-8	Phenolphthalein	Lilo;colax;laxin;Purga;Cl 764;Agoral;Ex-Lax;Koprol;Prulet;Purgen	M	0.1wt %	EU REACH Regulations SVHC	REV5.1
161	13424-46-9	Lead azide		M	0.1wt %	EU REACH Regulations SVHC	REV5.1
162	123-77-3	Diazene-1,2-dicarboxamide (C,C'-azodi (formamide))		M	0.1wt%	EU REACH Regulations SVHC	REV5.20
163	15245-44-0	1,3-Benzenediol, 2,4,6-trinitro-, lead salt		M	0.1wt %	EU REACH Regulations SVHC	REV5.1
164	6477-64-1	Lead dipicrate		M	0.1wt %	EU REACH Regulations SVHC	REV5.1

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	CAS	Substances	Synonyms		Thres hold	Remark	revision
165	624-49-7	Dimethyl fumarate *3		P	0.1wt %	EU REACH Regulations Annex XVII (restricted the usage and applications) Shall not be used in articles or any parts thereof in concentrations greater than 0,1 mg/kg. Articles or any parts thereof containing DMF in concentrations greater than 0,1 mg/kg shall not be placed on the market. It comes	REV5.11
166	548-62-9	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride α, α -bis[4-(dimethylamino)phenyl]-4	(C.I. Basic Violet 3)	M	0.1wt %	Management substance for REACH with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)	REV5.11
167	6786-83-0	(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)] *3		M	0.1wt %	Management substance for REACH with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)	REV5.11
168	101-61-1	4,4'-Methylene bis(N,N-dimethyl)benzenamine *3	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	M	0.1wt %	EU REACH Regulations SVHC	REV5.11
169	59653-73-5 59653-74-6	1,3,5-tris(2,3-epoxypropyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-Triglycidyl-s-triazinetriene *3		M	0.1wt %	EU REACH Regulations SVHC	REV5.11
170	1303-86-2	boron oxide *3		M	0.1wt %	EU REACH Regulations SVHC	REV5.11
171	112-49-2	1,2-bis(2-methoxyethoxy)ethane *3	(TEGDME; triglyme)	M	0.1wt %	EU REACH Regulations SVHC	REV5.11

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	CAS	Substances	Synonyms		Thres hold	Remark	revision
172	561-41-1	4,4'-bis (dimethylamino)-4''-(methylamino) trityl alcohol *3		M	0.1wt %	Management substance for REACH with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)	REV5.11
173	17570-76-2	Methanesulfonic acid, lead (2+) salt *1*2*3*4		M	0.1wt %	Yanmar voluntary regulation EU RoHS Directive EU ELV Directive EU Packaging and packaging waste Directive The Toxics in Packaging Clearinghouse (TPCH) US	REV5.11
174	75-12-7	Formamide *3		M	0.1wt %	EU REACH Regulations SVHC	REV5.11
175	2580-56-5	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride *3	(C.I. Basic Blue 26)	M	0.1wt %	Management substance for REACH with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)	REV5.11
176	110-71-4	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) *3		M	0.1wt %	EU REACH Regulations SVHC	REV5.11
177	2451-62-9	1,3,5-Tris (oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC) *3		M	0.1wt %	EU REACH Regulations SVHC	REV5.11
178	90-94-8	Michler's ketone *3		P	0.1wt %	EU REACH Regulations SVHC	REV5.11
179	1163-19-5	Decabromodiphenyl ether (Deca-BDE)		P	0.1wt %	Kingdom of Sweden and U.S. states and commonwealths/ Prohibited in the usage of brominated flame retardants (Penta, Octa, Deca) EU REACH Regulations SVHC	REV5.20
180	72629-94-8	PERFLUOROTRIDECANOIC ACID 97		M	0.1wt %	EU REACH Regulations SVHC	REV5.20
181	307-55-1	Perfluorododecanoic acid		M	0.1wt %	EU REACH Regulations SVHC	REV5.20
182	2058-94-8	Henicosafuoroundecanoic acid		M	0.1wt %	EU REACH Regulations SVHC	REV5.20

Table A6. Hazardous Substances List of Yanmar investigated (the first half of 2013)

*1. The gross weight of lead, mercury, cadmium, and hexavalent chrome is 0.01wt% or less for packaging and packaging waste.

*2. According to each law or standard that in case of usage that corresponds to EU RoHS Directive, ELV Directive, and Yanmar voluntary restraint exclusion usage.

*3. The prohibition beginning of on the market is done by revision REACH Directive that it prohibited according to the REACH revision of rules in February, 2012.

*4. Make the denominator of table A-B description material in the International Convention for Ship Recycl correspondence parts a homogeneous material. Report regardless of *2 the exclusion usage.

	CAS	Substances	Synonyms		Thres hold	Remark	revision
183	376-06-7	PERFLUOROTETRADECA NOIC ACID		M	0.1w%	EU REACH Regulations SVHC	REV5.20
184	85-42-7 13149-00-3 14166-21-3	Hexahydro-2- benzofuran-1,3- dione (HHPA), cis- cyclohexane-1,2- dicarboxylic anhydride, trans- cyclohexane-1,2- dicarboxylic anhydride		M	0.1w%	EU REACH Regulations SVHC	REV5.20
185	25550-51-0 19438-60-9 48122-14-1 57110-29-9	Hexahydro-2- benzofuran-1,3- dione (HHPA), cis- cyclohexane-1,2- dicarboxylic anhydride, trans- cyclohexane-1,2- dicarboxylic anhydride		M	0.1w%	EU REACH Regulations SVHC	REV5.20
186	625-45-6	Methoxy acetic acid		M	0.1w%	EU REACH Regulations SVHC	REV5.20
187	629-14-1	1,2-Diethoxyethane		M	0.1w%	EU REACH Regulations SVHC	REV5.20
188	68-12-2	N,N- dimethylformamide		M	0.1w%	EU REACH Regulations SVHC	REV5.20
189	110-00-9	furan		M	0.1w%	PRTR Law Japan/Class 1 of designated chemical substances EU REACH Regulations SVHC	REV5.20
190	75-56-9	methyl oxirane		M	0.1w%	Law Concerning the Evaluation of Chemical Substances and Regulation of Their Manufacturing, etc. Japan/prior evaluation Chemical Substance EU REACH Regulations SVHC	REV5.20
191	64-67-5	Diethyl sulfate		M	0.1w%	Occupational Health and Safety Law Japan/Ordinance on the Prevention of Organic Solvent	REV5.20
192	77-78-1	dimethyl-sulphate	DMS	M	0.1w%	EU REACH Regulations SVHC Occupational Health and Safety Law Japan/ Substances that are restricted the production	REV5.20

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*4. Make the denominator of table A-B description material in the International Convention for Ship Recycl correspondence parts a homogeneous material. Report regardless of *2 the exclusion usage.

	CAS	Substances	Synonyms		Thres hold	Remark	revision
193	143860-04-2	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine		M	0.1w%	EU REACH Regulations SVHC	REV5.20
194	88-85-7	Dinoseb, dinoseb salt and ester compound of dinoseb, 2-(1-methylpropyl)-4,6-dinitrophenol		P	0.0w%	Rotterdam Convention (PIC)/ Substances described in Annex III	REV5.20
195	838-88-0	4,4'-Methylene bis (2-methylaniline)		M	0.1w%	EU REACH Regulations SVHC Occupational Health and Safety Law Japan/Ordinance on the Prevention of Organic Solvent	REV5.20
196	101-80-4	4,4'-diaminodiphenyl ether		M	0.1w%	EU REACH Regulations SVHC Occupational Health and Safety Law Japan/Ordinance on the Prevention of Organic Solvent	REV5.20
197	60-09-3	4-Aminoazobenzene	4-Phenylazoaniline	M	0.1w%	EU REACH Regulations SVHC	REV5.20
198	95-80-7	2,4-Diaminotoluene	4-Methyl-m-phenylendiamine	M	0.1w%	EU REACH Regulations SVHC Occupational Health and Safety Law Japan/Ordinance on the Prevention of Organic Solvent	REV5.20
199	120-71-8	2-methoxy-5-methylaniline p-Cresidine		M	0.1w%	EU REACH Regulations SVHC Occupational Health and Safety Law Japan/Ordinance on the Prevention of Organic Solvent	REV5.20
200	97-56-3	o-Aminoazotoluene		M	—	EU REACH Regulations SVHC Occupational Health and Safety Law Japan/Ordinance on the Prevention of Organic Solvent	REV5.20
201	95-53-4	o-Toluidine		M	0.1w%	EU REACH Regulations SVHC Law Concerning the Evaluation of Chemical Substances and Regulation of Their Manufacturing, etc. Japan/prior evaluation Chemical	REV5.20

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*4. Make the denominator of table A-B description material in the International Convention for Ship Recycl correspondence parts a homogeneous material. Report regardless of *2 the exclusion usage.

	CAS	Substances	Synonyms		Thres hold	Remark	revision
202	79-16-3	N-methylacetamide		M	0.1w%	EU REACH Regulations SVHC	REV5.20
203	106-94-5	1-bromopropane		M	0.1w%	PRTR Law Japan/Class 1 of designated chemical substances EU REACH Regulations SVHC	REV5.20