

【Green Procurement Guidelines Appendix】

# List of Environmentally Hazardous Substances

Nov 2025  
YANMAR HOLDINGS CO., LTD.

## <Introduction>

This document is for providing information related to "5. Environmental Hazardous Substances" of "1.2 Green Procurement Selection Criteria (2) Criteria for Selecting Items and Services" of the "Green Procurement Guidelines" (November 2025; 9th Edition).

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### 1. Management Classifications and Definition

The Yanmar Group requests to manage environmentally hazardous substances whose use or inclusion is prohibited, restricted, communicated, and properly managed by conventions, laws and regulations, etc. in accordance with the Yanmar Group's own in-house management classification system.

The Management Classifications and Definition of managed substances as defined by the Yanmar Group are shown below.

#### • Substances Prohibited by the Yanmar Group :

Substances that the Yanmar Group prohibits the use of in all procurement activities in principle according to conventions, laws and regulations, etc.

For substances for which a contained percentage content has been set as a threshold, amounts equal to or greater than the threshold value are prohibited. In principle, if the maximum percentage content has a range, maximum value of said range shall be prohibited from being equal to or greater than the threshold.

#### • Substances to be substituted by the Yanmar Group

Substances of which the Yanmar Group promotes the substitution of another substance for this substance according to conventions, laws and regulations, etc. The Yanmar Group will prohibit these substances after a specified term. In principle, if the maximum percentage content has a range, maximum value of said range shall be prohibited from being equal to or greater than the threshold after a designated period.

- Substances subject to the Yanmar Group's investigation

Substances that should be investigated by the Yanmar Group in accordance with conventions, laws and regulations, industry standards, etc. to ascertain whether they are used or contained in products/items, and their content ratio.

- Prohibited substances subject to separate action

Substances whose use/presence are prohibited due to local laws and regulations or customer requirements.

- Substances subject to separate investigation

Substances whose use/presence or percentage content should be investigated as required by laws and regulations or customer requirements.

If the Yanmar Group requests that you submit non-use guarantees for the above-mentioned management substances, please respond using the format provided by the Yanmar Group. In addition, if there is a request for data submission, please respond using the information system specified by the Yanmar Group.

Regarding prohibited substances subject to separate action and substances subject to separate investigation, applicable laws and regulations and substances vary depending on the target product. If the Yanmar Group requests to prohibit or investigate separately, please check "Table 3-2 Laws and regulations applicable to substances subject to the Yanmar Group's investigation " and submit the evidence specified by the Yanmar Group.

> Non-use guarantees, detailed requirements for data submission, and example lists of environmentally hazardous substances are specified in our purchasing specifications, "Restrictions of Use of Environmentally Hazardous Substances." If you need more detailed information, please contact us on the following website, clearly the relevant department/responsible person at the Yanmar Group company's transaction contact point.

<https://www.yanmar.com/jp/support/contact/form/yanmar/#mail>

## 2. Substance Group and Examples of Reference Laws and Regulations

The Substance Group for each managed substance and Examples of Reference Laws and Regulations as defined by the Yanmar Group are shown below.

The following substances are designated as substances prohibited by the Yanmar Group.

Table 1. Substances Prohibited by the Yanmar Group

No.	Prohibited substance group	Prohibited applications	Threshold	Main laws and regulations
1	Asbestos	All items	Intentional addition is prohibited, and 0.1 wt% (homogeneous material)	Industrial Safety and Health Act
2	ODSs (such as CFCs, HCFCs)	All items	Intentional addition is prohibited	Montreal Protocol
3	PCBs	All items	Intentional addition is prohibited, and 0.005 wt%	POPs Convention, Annex A and C
4	PBB and PBDE other than bellow	All items	Intentional addition is prohibited	POPs Convention, Annex A
	Octa-BDE		Intentional addition is prohibited, and 0.1 wt%	EU REACH Annex XVII (45)
	Tetra-BDE, Penta-BDE, Hexa-BDE, Hepta-BDE, Deca-BDE		Intentional addition is prohibited, and the sum of the concentrations of Tetra-,Penta -,Hexa -,Hepta – and Deca-BDE: 0.05 wt% (0.05 wt% is maximum concentration values tolerated by weight )	EU POPs Regulation Annex I
5	Mercury	Other than below	Intentional addition is prohibited	Minamata Convention on Mercury
			Substances listed in Table 1-2:	EU REACH Annex XVII (62)

			Intentional addition is prohibited, and 0.01 wt%	
		Batteries	0.0005 wt%	Battery Directive
6	Cadmium	Other than below	Intentional addition is prohibited and 0.01 wt%	EU REACH Annex XVII (23)
		Plating	Intentional addition is prohibited, and 0.01wt% However, the following are exempt: •Use in parts that require a high degree of safety, such as in mining or offshore sectors. •Use in parts used for safety equipment installed in agricultural vehicles and vessels. •Electrical contacts that are necessary to ensure reliability.	
		Batteries	0.002 wt%	Battery Directive
7	Hexavalent chromium	All items	Intentional addition is prohibited, and 0.1 wt%	Act on confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management thereof, Class I Specified Chemical Substances (carcinogens) subject to voluntary regulation.
8	Lead	Lead within paint	Intentional addition is prohibited, and 0.1 wt%	Act on confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion

				of Improvements to the Management Thereof, Class I Specified Chemical Substances (carcinogens) subject to voluntary regulation.
9	RCF (Refractory ceramic fibers)	All items	Intentional addition is prohibited, and 0.1 wt% (Homogenous material)	GHS carcinogen classification/Industrial Safety and Health Act, Ordinance on Prevention of Hazards Due to Specified Chemical Substances (Class II) subject to voluntary regulation and notification.
10	PFOA and its salts	All items	Intentional addition is prohibited, and 25 ppb	EU POPs Regulation Annex I
	PFOA-related Substances		Intentional addition is prohibited, and 1000 ppb of one or a combination of PFOA-related substances.	

Table 1-2. Mercury Whose Intentional Addition is Prohibited and Whose Threshold is 0.01wt%

CAS number	Substance name
13302-00-6	Mercury, (2-ethylhexanoato-O)phenyl-
26545-49-3	Mercury, (neodecanoato-O)phenyl-
103-27-5	Mercury, phenyl(propanoato-O)-
62-38-4	Phenylmercuric acetate
13864-38-5	Phenylmercury octanoate

Table2. Substances to be substituted by the Yanmar Group

The following substances are designated as substances to be substituted by the Yanmar Group.

Table2. Substances to be substituted by the Yanmar Group

No.	Substitute substance group	Prohibited applications	Threshold	Substitution target date	Main laws and regulations
1	Phthalates (DEHP,DBP, BBP,DIBP)	Prolonged contact with human skin *1	above 0.1%	Already prohibited in the European market. Also to be prohibited in new products, changes of supplier, and when production methods are changed.	EU REACH regulation, EU RoHS Directive
2	PIP (3:1)	stationary machine	Intentional addition is prohibited.	To be prohibited in new products, changes of supplier, and when production methods are changed.	TSCA PBT Chemicals regulation
3	DBDPE	All	To be stated after the regulations are determined.	To be stated after the regulations are determined.	CAN DBDPE regulation
4	lead	PVC	above 0.1%	To be prohibited in new products, changes of supplier, and when production methods are changed.	EU REACH regulation
5	Dechlorane Plus	All	Intentional addition is prohibited.	To be prohibited in new products, changes of supplier, and when production methods are changed.	EU REACH regulation, POPs Convention, CAN DP regulation
6	UV328	All	Intentional addition is prohibited.	To be prohibited in new products, changes of supplier,	POPs Convention, EU REACH



				and when production methods are changed.	regulation
7	PFCA	All	25 ppb for the sum of C9-C14 PFCAs and their salts 260 ppb for the sum of C9-C14 PFCA-related substances	To be prohibited in the European market from February 25, 2023 onwards. Also to be prohibited in new products, changes of supplier, and when production methods are changed.	POPs Convention, EU REACH regulation
8	PFHxS	All	25 ppb for the sum of PFHxS and its salts 1000 ppb for the sum of PFHxS-related substances	To be stated after the regulations are determined.	POPs Convention、EU REACH regulation, CHE PFHxS regulation
9	Those which are stated in Annex A to the POPs Convention	All	Intentional addition is prohibited	To be prohibited in new products, changes of supplier, and when production methods are changed.	POPs Convention, Annex A
10	Polycyclic-aromatic hydrocarbons (PAH)	Come into long-term contact with	more than 0.0001wt%	To be prohibited in new products, changes of supplier,	EU REACH regulation

		human skin *1		and when production methods are changed.	
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A list of example substances for "No. 9 Those which are stated in Annex A to the POPs Convention " is shown in Table 2-2.

A list of example substances for "No. 10 Polycyclic aromatic hydrocarbons (PAH)" is shown in Table 2-3.

For examples of each Substitute substance group, check the laws and regulations listed in the "Table3-2. Laws and regulations applicable to substances subject to the Yanmar Group's investigation".

\*1 : "Prolonged contact with human skin" means continuous contact of more than 10 minutes duration or intermittent contact over a period of 30 minutes, per day.

Table2-2. Those which are stated in Annex A to the POPs Convention

Substance	Substance
Aldrin	Hexachlorobutadiene
Alpha hexachlorocyclohexane	Lindane
Beta hexachlorocyclohexane	Mirex
Chlordane	Pentachlorobenzene
Chlordecone	Pentachlorophenol and its salts and esters
Dieldrin	Polychlorinated naphthalenes(Including those with 2 to 8 chlorine)
Endrin	Short-chain chlorinated paraffins (SCCPs)
Heptachlor	Endosulfan
Hexabromobiphenyl	Toxaphene
Hexabromocyclododecane	Dicofol
Hexachlorobenzene	PFHxS and its salts, and PFHxS- related substances

Table3. Substances Subject to the Yanmar Group's Investigation

The substances listed in the following conventions, regulations, industry standards, etc. are designated as Substances Subject to the Yanmar Group's Investigation.

Table3-1. Conventions, regulations, industry standards, etc. that are subject to the Substances Subject to the Yanmar Group's Investigation

	<del>Target</del> Related conventions regulations, industry standards, etc.	<del>Remarks</del> Target substances
Convention	Rotterdam Convention	Excluding substances prohibited by the Yanmar Group and Substances to be substituted by the Yanmar Group
Convention	POPs Convention	same as above
Convention	Minamata Convention on Mercury	same as above
Convention	Vienna Convention / Montreal Protocol	same as above
Laws and Regulation	Laws and regulations shown in Table 3-2	same as above
industry standards	GADSL	same as above
industry standards	IEC62474	same as above
industry standards	chemSHERPA Declarable Substances List	same as above

Table3-2. Laws and regulations applicable to substances subject to the Yanmar Group's investigation

Category	Region or Country	Laws and Regulations Name	Remarks
Article (Packaging mentioned as follows)	USA	Safe Drinking Water and Toxic Enforcement Act of 1986 (California: Proposition 65)	
		Consumer Product Safety Improvement Act (CPSIA)	
	EU	The regulation of Registration, Evaluation, Authorisation and	The use of substances

		Restriction of Chemicals (REACH), REGULATION (EC) 1907/2006	restricted under REACH may be prohibited depending on the application. Make sure that such substances are not used for prohibited applications.
		Regulation of Ship Recycling REGULATION (EU) No 1257/2013	
		Restriction of Hazardous Substances (RoHS) DIRECTIVE 2011/65/EU	
		Persistent Organic Pollutants (POPs) Regulation REGULATION (EU) 2019/1021	
		Fluorinated Greenhouse Gases Regulation REGULATION (EU) No 517/2014	
		Biocidal Product Regulation REGULATION (EU) No 528/2012	
	JPN	Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (Chemical Substances Control Law) Class I Specified Chemical Substances	
Packaging	USA	The Safe Drinking Water and Toxic Enforcement Act of 1986 (California: Proposition 65)	
		Toxics in Packaging Model Legislation, TPCH	
		Wood Packaging Material regulation (WPM). 7CFR319.40 Subpart—Logs, Lumber, and Other Wood Articles	
	EU	EUROPEAN PARLIAMENT AND COUNCIL DIRECTIVE 94/62/EC of 20 December 1994 on packaging and packaging waste	

		The regulation of Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Regulation (EC) 1907/2006	
		REGULATION (EU) 2016/2031	
		Persistent Organic Pollutants (POPs) Regulation REGULATION (EU) 2019/1021	
		Biocidal Product Regulation REGULATION (EU) No 528/2012	
	JPN	Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (Chemical Substances Control Law) Class I Specified Chemical Substances	
Chemical substance and mixture	USA	The Safe Drinking Water and Toxic Enforcement Act of 1986 (California: Proposition 65)	
		15 U.S. code chapter 53 Chemicals under the Toxic Substances Control Act (TSCA)	
		Hazard Communication Standard (HCS)	
	CAN	Prohibition of Certain Toxic Substances Regulations, 2012 (SOR/2012-285)	
	EU	The regulation of Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) REGULATION (EC) 1907/2006	
		Regulation on Classification, Labelling and Packaging of substances and mixtures (CLP) REGULATION (EU) No 1272/2008	
		Persistent Organic Pollutants (POPs) Regulation REGULATION (EU) 2019/1021	
		Fluorinated Greenhouse Gases Regulation REGULATION (EU) No 517/2014	
		Biocidal Product Regulation REGULATION (EU) No 528/2012	

	JPN	Law Concerning the Promotion of the Measures to Cope with Global Warming	
		Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (Chemical Substances Control Law)	
		Act on confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof	
		Poisonous and Deleterious Substances Control Act	

### 3. Record of Revisions

First Edition Nov 2025