Green Procurement Guidelines

-- Supplementary Volume --

15th Edition

Issued: Sep 30, 2024

CITIZEN MACHINERY Co., Ltd.

Revised content

The main revisions from the 14th edition are as follows.

• P4, P6

Added the followings to Chemical Substance Management Standards, Rank 1.

- 47) Methoxychlor
- 48) Decloramprass and its isomers
- 49) UV-328

• P7, P9

Added the followings to Chemical Substance Management Standards: Rank 2. EU Battery Regulation

• P10

 $1 \hbox{-} 3 \hbox{-} 2$ Notes for answering your survey results has been amended as follows.

To answer, please check "FMD" and enter the types and weights of all substances contained in each part.

If there are any substances you cannot fill in, uncheck them, but be sure to fill in the information about regulated substances.

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1. List of Documents to be Submitted and Method of Answering Concerning Green Parts

Please submit necessary documents and your answer according to the following table.

1. Submission of documents

Check the contents of documents for submission and enter necessary data. Submit the necessary documents to our Green Procurement Desk.

Documents to be submitted	Supplier's reply and method for completing the document
Chemical Substance Management Standards Rank	
Non-use Guarantee Statement for Prohibited Substances Form 1 Rank 1	- Check the contents of Form 1, and submit it without fail. Enter the company name, supplier code, address and name of representative, and impress the company seal.
Non-inclusion Guarantee Statement for Conditionally Prohibited Substances (RoHS Directive substances) Form 2	 Check the contents of Form 2, and submit it without fail. Enter the company name, supplier code, address and name of representative, and impress the company seal.
Rank 2	

Download the Forms 1 and 2 from our web site.

2. Answering by means of electronic dataAccess to our Environmental Management System and input necessary information.

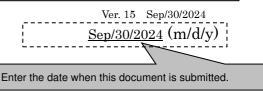
(If you input necessary information in the Environmental Management System, you do not need to submit electronic data to us.)

Answer Chemical Substance Management Standards Rank	Supplier's method of answering
Result of Survey on Chemical Substances Contained	 You will receive a survey request from our company. Please summarize the survey results to the chemSHERPA-AI format
	and respond.
	■ Please download the chemSHERPA-AI format from the chemSHERPA website to respond.
	chemSHERPA HP
	:https://chemsherpa.net/chemSHERPA/english/tool/
	■ When you submit your answer, you may be requested to submit also some analysis data, MSDS (Product Safety Data Sheet)
	and mill sheet (attachment to certify materials of steel) for
	certain parts.
Rank 3	

1-1 Example of Filling Out Form 1 Non-use Guarantee Statement for Prohibited Substances

Form 1

Messrs. Citizen Machinery Co., Ltd.



Non-use Guarantee Statement for Prohibited Substances

Company name:XXX Trading Co., Ltd.

Supplier code:0000A

Address: 00-0 Miyota, Kitasaku

Name of representative: John Smith

[Company seal]

Enter the company name, supplier code, address and name of representative.

Supplier code is a 4-digit or 5-digit number which is

Supplier code is a 4-digit or 5-digit number which is specified by us.

Pentabromodiphenyl ether

We hereby guarantee that all products and parts, raw materials, packing materials (excluding those used for protection during transportation) and accessories that are delivered by this company (including our subsidiaries or affiliate companies) directly or through a third part to Citizen Machinery Co., Ltd., do not contain the chemical substances listed below (a prohibited substance is considered not to be used if the amount of substance in use is smaller than the threshold value as specified by the relevant laws and regulations).

th	threshold value as specified by the relevant laws and regulations).					
	Chemical Substances Management Standards: Rank 1					
	Prohibited Substances	49 Sub	stance Groups			
1)	Aldrin	27)	Hexabromodiphenyl ether			
2)	Endrin	28)	Heptabromodiphenyl ether			
3)	Chlordanes	29)	Endosulfan			
4)	Dieldrin	30)	Hexabromocyclododecane (HBCD)			
5)	Hexachlorobenzene	31)	Pentachlorophenol and its salts and esters			
6)	DDT	32)	Polychlorinated linear paraffin(having 10 to 13 carbon atoms and containing more than 48% of chlorine by total weight)			
7)	N,N'-Ditolyl-p-phenylenediamine	33)	Decabromodifenyl ether			
8)	2,4,6-Tri-tert-butylphenol	34)	Perfluorooctanoic acid(PFOA)and its salts, PFOA-related substances			
9)	Toxaphene	35)	Asbestos			
10)	Mirex	36)	Bis(chloromethyl) ether			
11)	Bis(tributyltin) oxide	37)	4-Aminodiphenyl			
12)	Polychlorinated biphenyls (PCB)	38)	4-Nitrodiphenyl and its salts			
13)	Polychloronaphthalenes (with 2 or more chlorine atoms)	39)	Benzidine and its salts			
14)	Dicohol	40)	beta-Naphthylamine and its salts			
15)	Hexachlorobuta-1,3-diene	41)	Yellow phosphorous			
16)	2-(2H-1,2,3-Benzotriazole-2-yl)-4,6-di-tert-butylphenol	42)	Benzene adhesive (greater than 5% benzene)			
17)	Perfluoro (octane-1-sulfonic acid)(PFOS) or its salts	43)	Ozone depleting substances			
18)	Perfluoro (octane-1-sulfonyl) = fluoride (PFOSF)	44)	Pentachlorobenzenethiol (PCTP)			
19)	Pentachlorobenzene	45)	Tris(isopropylphenyl) phosphate PIP (3:1)			
20)	alpha-Hexachlorocyclohexane	46)	Perfluorohexanesulfonic acid (PFHxS), its chlorides and related substances			
21)	beta-Hexachlorocyclohexane	47)	Methoxychlor			
22)	gamma-Hexachlorocyclohexane (also known as Lindane)	48)	Decloramprass and its isomers			
23)	Chlordecone	49)	UV-328			
24)	Hexabromobiphenyl					
25)	Tetrabromodiphenyl ether					

1-1-1Data concerning the green parts for Form 1

Substances for Which Inclusion is prohibited under Chemical Substance Control Standard Rank 1. Relevant legislation:

- * The Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (hereafter, the "Chemical Substances Control Law") Class 1 Specific Chemical Substances
- * Industrial Safety and Health Law, Substances Prohibited for Manufacture

* The Law Concerning the Protection of the Ozone Layer Through the Control of Specified Substances and

Articles that contain any of the following substance groups cannot be purchased.

	Chemical substances	CAS No.	Primary legislation	Primary environmental effects	Primary applications
1	Aldrin	309-00-2	(*1)	Persistency, high accumulability	Insecticides
2	Endrin	72-20-8	As above	As above	Insecticides
3	Chlordanes		As above	As above	Termite disinfestants etc.
4	Dieldrin	60-57-1	As above	As above	Insecticides
5	Hexachlorobenzene	118-74-1	As above	As above	Raw material for insecticides etc
6	DDT	50-29-3	As above	As above	Insecticides
7	N,N'-Ditolyl-p-phenylenedia mine		As above	As above	Antioxidants for rubber, styrene-butadiene rubber
8	2,4,6-Tri-tert-butylphenol	732-26-3	As above	As above	Antioxidants and other additives (limited to lubricating oils and fuel oils), lubricating oil
9	Toxaphene	8001-35-2	As above	As above	Insecticides, mite control agents (in agricultural and livestock farming applications)
10	Mirex	2385-85-5	As above	As above	Flame retardants for resins, paints, paper, electrical products etc., insecticide, ant repellant
11	Bis(tributyltin) oxide	56-35-9	As above	As above	Antifouling agent for fishing nets, and boat hulls etc.
12	Polychlorinated biphenyls (PCB)		As above	As above	Insulating oils etc.
13	Polychloronaphthalenes (with 2 or more chlorine atoms)		As above	As above	Machine oils etc.
	Dicohol	115-32-2	As above	As above	Mite preventative agents
15	Hexachlorobuta-1,3-diene	87-68-3	As above	As above	Solvents
16	2-(2H-1,2,3-Benzotriazole-2 -yl)-4,6-di-tert-butylphenol	3846-71-7	As above	As above	UV light absorbents
17	Perfluoro (octane-1-sulfonic acid)(PFOS) or its salts		As above	As above	Water and oil repellants, surfactants
18	Perfluoro (octane-1-sulfonyl) = fluoride (PFOSF)	307-35-7	As above	As above	PFOS raw material
19	Pentachlorobenzene	608-93-5	As above	As above	Agricultural chemicals, by-products
20	alpha-Hexachlorocyclohexa ne	319-84-6	As above	As above	Lindane by-product
21	beta-Hexachlorocyclohexane	319-85-7	As above	As above	Lindane by-product
22	gamma-Hexachlorocyclohex ane (also known as Lindane)	58-89-9	As above	As above	Agricultural chemicals, insecticides
23	Chlordecone	143-50-0	As above	As above	As above
24	Hexabromobiphenyl	36355-01-8	As above	As above	Flame retardants

	Chemical substances	CAS No.	Primary legislation	Primary environmental effects	Primary applications
25	Tetrabromodiphenyl ether		As above	As above	As above
26	Pentabromodiphenyl ether		As above	As above	As above
27	Hexabromodiphenyl ether		As above	As above	As above
28	Heptabromodiphenyl ether		As above	As above	As above
29	Endosulfan	115-29-7	As above	As above	Agricultural chemicals
30	Hexabromocyclododecane (HBCD)	3194-55-6	As above	As above	Flame retardant treatment for textiles, flame retardant beads for EPS, flame-proofed textiles and curtains
31	Pentachlorophenol and its salts and esters		As above	As above	Wood antiseptics, Insecticides and fungicides
32	Polychlorinated linear paraffin(having 10 to 13 carbon atoms and containing more than 48% of chlorine by total weight)		As above	As above	Flame retardants
33	Decabromodifenyl ether		As above TSCA	As above	As above
34	Perfluorooctanoic acid (PFOA) and its salts, PFOA-related substances		As above	As above	For semiconductor, extinguishing agents, water repellents
35	Asbestos		(*2)	Carcinogenic	Insulator, filler, thermal insulation
36	Bis(chloromethyl) ether	542-88-1	As above	As above	Dyes, Pigments
37	4-Aminodiphenyl	92-67-1	As above	As above	Pigments
38	4-Nitrodiphenyl and its salts		As above	As above	Dye intermediate
39	Benzidine and its salts	92-87-5	As above	As above	Dyes, Hardener
40	beta-Naphthylamine and its salts	91-59-8	As above	As above	Dyes, Antioxidant intermediate
41	Yellow phosphorous		As above	Flammability, acute toxicity	Matches
42	Benzene adhesive (greater than 5% benzene)		As above	Carcinogenic	Rubber adhesive
43	Ozone depleting substances (*3)		Ozone Layer Protection Law	Ozone layer destruction	Refrigerants, foaming agents, extinguishing agents
44	Pentachlorobenzenethiol (PCTP)	133-49-3	TSCA	Non-decomposable and highly accumulative	Additive for improving rigidity of rubber products
45	Tris(isopropylphenyl) phosphate PIP (3:1)	68937-41-7	TSCA	Non-decomposable and highly accumulative	Flame retardant plasticizers for vinyl chloride products
46	Perfluorohexanesulfonic acid (PFHxS), its chlorides and related substances		Chemicals Risk Reduction Decree	Persistent and highly accumulative	Extinguishing foam, abrasives and cleaners, coatings, etc.
47	Methoxychlor	72-43-5	Chemical Substances Control Law	Non-decomposable, bio-accumulative	Insecticides, etc.
48	Decloramprass and its isomers	13560-89-9 135821-03-3 135821-74-8	As above	Non-decomposable, bio-accumulative	Flame retardants, etc.
49	UV-328) Chemical Substances Control Law	25973-55-1	As above	Non-decomposable, bio-accumulative	Ultraviolet absorbents, etc.

^(*1) Chemical Substances Control Law

It is known that Class I specific chemical substances are produced as a by-product in the manufacturing process. In doing so, please comply with the standards presented by administrative agencies in accordance with the principle of BAT (Best Available Technology).

^(*2) Industrial Safety and Health Law

^(*3) Ozone depleting substances listed in the Montreal Protocol.

1-2 Example of Filling Out Form 2 Non-inclusion Guarantee Statement for Conditionally Contained Substances (RoHS Directive Substances)

Form 2 Ver. 15 Sep/30/2024

Sep/30/2024 (m/d/y)

Maccore Citizen Machinery Co. Ltd.

Messrs. Citizen Machinery Co., Ltd.

Non-inclusion Guarantee Statement for Conditionally Prohibited Substances

Enter the date when this document is submitted.

Company name: XXX Trading Co., Ltd.
Supplier code: 0000A
Address: 00-0 Miyota, Kitasaku
Name of representative: John Smith

Enter the company name, supplier code, address and name of representative.
Supplier code is a 4-digit or 5-digit number which is specified by us.

Be sure to impress the company seal.

[Company seal]

We hereby guarantee that all products and parts, raw materials, packing and packaging materials and accessories that are delivered by this company (including our subsidiaries or affiliate companies) directly or through a third party to Citizen Machinery Co., Ltd., do not contain the following substances, specified in the "Citizen Machinery Green Procurement Guidelines", regardless of whether the inclusion is intentional or not. (This excludes those substances that are exempt from application. Also, a prohibited substance is considered not to be used if the amount of substance in use is smaller than the threshold value. For details, refer to Item 2 of the Green Procurement Guidelines, Supplementary Volume.)

Chemical Substance Management Standards: Rank 2 Conditionally prohibited substances

RoH	S Directive substances				
1)	Cadmium and its compounds	6)	PBDEs		
2)	Hexavalent chromium compounds	7)	Di (2-ethylhexyl) phthalate DEHP		
3)	Lead and its compounds	8)	Butyl bezy phthalate BBP		
4)	Mercury and its compounds	9)	Dibutyl phthalate DBP		
5)	PBBs	10)	Diisobutyl phthalate DIBP		
REA	REACH Annex XVII				
Per	fluorocarboxylic acids				

In addition to the above, the packing and packaging materials are guaranteed as follows.

EU Packaging Waste Disposal Directive

Total amount of four heavy metals: cadmium, hexavalent chromium, lead, and mercury.

France: Order specifying substances contained in mineral oils.

- 1) MOAH
- 2) MOSH

The battery guarantees the following in addition to the above.

EU Battery Regulation

Cadmium, Lead, Mercury

1-2-1Data concerning the green parts for Form 2

Substances for Which Inclusion is restricted under Chemical Substance Control Standard Rank 2. Relevant legislation: Directive 2011/65/EU (RoHS) Annex II, Annex IV

However, Annex II is subject to revision directive 2015/863 / EU.

	Chemical substances	Threshold value	Primary environmental effects	Primary applications
1	Cadmium and its compounds	0.01%	Kidney dysfunction Reproductive defects Carcinogenic	Pigments, anti-rust treatments, batteries
2	Hexavalent chromium compounds	0.1%	Carcinogenic	Pigments, paints, inks, catalysts
3	Lead and its compounds	0.1%	Central nervous system dysfunction Carcinogenic	Rubber curing agents, pigments, solder, plating
4	Mercury and its compounds	0.1%	Brain defects Mental disorders	Luminescence materials, electrical contacts
5	PBBs	0.1%	Bioaccumulative Production of Dioxins during combustion	Flame retardant
6	PBDEs	0.1%	Bioaccumulative Production of Dioxins during combustion	Flame retardant
7	Di (2-ethylhexyl) phthalate DEHP		Serious influential anxiety to environment Reproductive toxicity	Plasticizers for resin, Paints, pigments, adhesives, lubricating oil additives
8	Butyl bezy phthalate BBP	0.1%	As above	As above
9	Dibutyl phthalate DBP	0.1%	As above	As above
10	Diisobutyl phthalate DIBP	0.1%	As above	As above

- · Regardless of whether it is intentional or not, content rate can be kept below the threshold value.
- · Applications exempted from the restriction are listed in Annex III and Annex IV of the RoHS directive.

Relevant legislation: 1907/2006/EC (REACH) Annex XVII

The following table shows the items in Annex XVII that may be contained in the Citizen Machinery products. For details of the regulations, please refer to the original document.

	Chemical substances	Threshold value	Primary environmental effects	Primary applications
68	Perfluorocarboxylic acids (C9-C14PFCAs), their salts and related substances	Total of PFCAs and their salts <25 ppb Total of PFCAs and related substances <260 ppb	Persistent, Highly accumulative	Manufacture and sale of individual substances Use and sale of mixtures and molded products

In addition to the above, the followings are also subject to packing and packaging materials.

Relevant legislation:94/62/EC (EU Packaging Waste Disposal Directive)

itelevant legislation 34/02/100 (100 Tackaging Waste Disposar Directive)				
	Chemical substances	Threshold value		
	cadmium, hexavalent chromium, lead, and mercury	0.01% by weight of the total amount of four heavy metals		

Relevant legislation: France Ministerial Order dated April 13, 2022 specifying substances contained in mineral oils prohibited for use in packaging materials and printed matter intended for the public.

No.	Chemical substances	Threshold value	Primary environmental effects	Primary applications
1	MOAH Mineral oil aromatic hydrocarbons with 1 to 7 aromatic rings	1%(*1) 0.1%(*2) 1ppm(*3)	Reproductive toxicity	• Packaging materials, one-way advertisements, leaflets, etc.
2	MOSH Mineral oil saturated hydrocarbons with 16 to 35 carbon atoms		Carcinogen	• General printed materials (excluding books) (*2)

^{*1)} Until December 31, 2024

Relevant legislation: 2023/1542 (EU Battery Regulation)

No.	Chemical substance	Threshold	Major toxicities
1	Cadmium	0.002%	Renal dysfunction, reproductive defects, carcinogenesis
2	Lead	0.01%	Central nervous system dysfunction, carcinogenic
3	Mercury	0.0005%	Brain damage, mental disorder

^{*2)} After January 1, 2025 *3) After January 1, 2025 Regulation value for aromatic rings from 3 to 7

1-3 Survey Concerning Contained Substances

1-3-1 Sequence of survey

- 1) A request for survey will be sent to your registered e-mail address from our Environmental Management System.
- 2) You access to the system to check contents of the survey (parts to be surveyed).
- 3) Download the chemSHERPA-AI (Data entry support tool for articles) from the chemSHERPA website.(*1)
- 4) You implement the survey on the parts you are requested to check and record the results on the chemSHERPA-AI format.
- 5) You send your answer by inputting your survey results in the Environmental Management System (which means to upload the completed chemSHERPA-AI format).

Environmental Management System: https://prochemist.nec.co.jp/ProChemistAS/Use the user ID which we advised to you.

To be used until June 31, 2017.

For examination requests through chemSHERPA-AI, examination responses should be performed according to our company's separate instructions.

When you do not use Internet or have no e-mail environment, please contact our Green Procurement Desk.

1-3-2 Notes for answering your survey results

To answer, please check " FMD" and enter the types and weights of all substances contained in each part.

If there are any substances you cannot fill in, uncheck them, but be sure to fill in the information about regulated substances.

- In case of a survey of composite part (for example, a product produced by combining steel, nonferrous material, plastics, rubber, adhesive, etc.), enter the type and weight of all contained substance by classifying items in each component part.
- The following two substances are scheduled to be added to the RoHS and REACH, so please report without omission if they are contained.

2011/65/EU(RoHS) • 1907/2006/EC(REACH) 1907/2006/EC(REACH) Candidate substance

No	Chemical substances	CAS	Reason	Usage Example	
		No.			
1	Tetrabromobisphenol	79-94-7	Acute toxicity,	Epoxy and polycarbonate resins,	
	A (TBBP-A)		carcinogenicity,	impact-resistant polystyrene	
			reproductive toxicity	and phenolic resins, adhesives	
2	Medium Chain	-	Persistent,	Plasticizers to increase flame	
	Chlorinated		bioaccumulation	retardancy of polyvinyl chloride	
	Paraffins (MCCP)			(PVC) and rubber for cables, etc.	
	C14-C17				

- (*1) The compressed file downloaded from "chemSHERPA-AI Data entry support tool for articles" on the chemSHERPA website contains the following files when it is expanded:
 - "chemSHERPA_Operation manual for Articles(Ver1.2).pdf"
 - "chemSHERPA_Data entry manual for Article(Ver1.2).pdf"
 - "IAA.zip" (expand this file in order to use it)

chemSHERPA web site: https://chemsherpa.net/chemSHERPA/english/tool/

1-3-3Data necessary for work

Refer to (*1) of 1-3-2 above.

2. List of Documents to be Submitted and Method of Answering Concerning Green Suppliers

Check the contents of documents for submission and enter the necessary data. Submit the necessary documents to our Green Procurement Desk.

Documents to be submitted Chemical substance management standards Rank	Supplier's reply and method for completing the document Chemical substance management standards	
Survey Report on Environmental Activity through Green Procurement Form 5	- Check the contents of Form 5 and submit it without fail. ■ Check ☑ the applicable item among 1) to 3) in Form 5 "Survey Report on Environmental Activity through Green Procurement". Complete the document by entering the necessary information, company name, supplier code,	
Rank 4	address and name of representative and impressing the company seal.	

Example of Filling Out Form 5 Survey Report on Environmental Activity through Green Procurement Form 5 Enter the date when this document is submitted. 04/01/2015 (m/d/y) Messrs. Citizen Machinery Co., Ltd. Survey Report on Environmental Activity through Green Procurement We are pleased to report to you our environmental activities as follows. Company name: XXX Trading Co., Ltd. Enter the company name, supplier code, address and name of representative. Supplier code:0000A Supplier code is a 4-digit number which is specified by Address: 00-0 Miyota, Kitasaku Name of representative: John Smith Check I the applicable item(s). [Company Be sure to impress the company seal. 1. Applicable controlled hazardous substances We are ISO14001 certified. Date certified _____ Certifying body _____ Certificate No. ___ We are scheduled for ISO14001 certification. Date of examination We have established another environmental system. Date certified _____ Certifying body ____ Certificate No. ____ We are scheduled to establish another environmental system. Name of scheduled system _____ Scheduled date of establishment ___ We have completed our own system. We have an environmental policy and an action plan. We have a steering system. applicable item(s). Our top management is committed. We abide by the laws and regulations concerning the environment. Non-use of hazardous substances in production processes Answer to the following questions, referring to Attachment [5. Data concerning the green supplier for Form 5]. No ozone depleting substances or organochlorine cleaning agents are used in production processes. Although ozone depleting substances and organochlorine cleaning agents are used in production processes, we have a plan to abolish their use completely. Name of substance used Date to abolish completely ___ We are a dealer/trading company and have no production process. 3. Information disclosure We are prepared to disclose information on chemical substances contained in products. Check ✓

here when you can disclose the information.

2-1-1 Data concerning the green supplier for Form 5

Substances whose use in production processes is prohibited in Item 2 of Form 5 "Survey Report on Environmental Activity through Green Procurement"

Rank 4: Substances for which uses in manufacturing processes are to be prohibited (*1)

	Chemical substances	Primary legislation	Primary environmental effects	Primary applications
	Chemical substances	Timary legislation	Circus	applications
1	Ozone depleting substances (*2)	Ozone Layer Protection Law	Ozone depletion	Detergents and refrigerants
2	Organochlorine detergents (*3)	Soil Contamination Countermeasures Law	Soil contamination	Detergents

^(*1) Except being used only in a hermetically sealed state (e.g. cooling medium in chillers).

(*3) Organochlorine detergents prohibited for use in manufacturing processes are as follows; carbon tetrachloride, 1,2-dichloroethane, 1,1-dichloroethylene, 1,2-dichloroethylene, 1,3-dichloropropene, dichloromethane, tetrachloroethylene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, trichloroethylene,

^(*2)Ozone depleting substances prohibited for use are in manufacturing processes in accordance with Montreal Protocol.

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